

# THRIFTY OIL CO.

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Alameda County  
Environmental Health

April 21, 2010

O.102684

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

Local #RO0000004  
RWQCB #01-1478

**Re: Former Thrifty Oil Co. Station #049  
3400 San Pablo Avenue  
Oakland, California 94612**

**Subject: Continuous 5-Day Mobile High Vacuum Dual Phase Extraction Report and  
Workplan to Conduct a Continuous 30-Day Mobile High Vacuum Dual-Phase  
Extraction Event**

Dear Mr. Plunkett:

The enclosed *High Vacuum Dual Phase Extraction (HVDPE) Report* dated April 8, 2010 and prepared by CalClean Inc. (CalClean) (**Attachment A**) summarizes the results of the continuous 5-Day (24-hour/Day) mobile HVDPE event (HVDPE Event) conducted between March 22 and 27, 2010 at Thrifty Oil Co. (Thrifty) Station No. 049, located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). The HVDPE event was conducted in accordance with the *Feasibility Study and Corrective Action Plan*, dated September 25, 2008 and prepared by GeoHydrologic Consultants Inc. and Thrifty's *Notification of Intent to Proceed with the Proposed 5 Consecutive Day (24-hour/Day) Multi-Phase Extraction Event* letter dated February 9, 2010.

Laboratory analytical results of the total inlet vapor sample collected at the beginning (03/22/10) and at the end of the 5-Day HVDPE event (03/27/10) indicate a significant decrease as shown in **Table 1** below:

**Table 1: TOTAL INLET VAPOR SAMPLE RESULTS DURING THE 5-Day HVDPE:**

Sample ID	Constituent	Date of sampling and results in (ppmv)		Comments
		Beginning of HVDPE (03/22/10)	End of HVDPE (03/27/10)	
Inlet	TPHg	4,100	1,570	
	Benzene	7	5.2	
	MTBE	26	17	



Laboratory analytical results of the groundwater samples collected before the initiation of the 5-day HVDPE event (10/21/09), at the beginning of the HVDPE (03/22/10) and at the end of the DPE event (03/27/10), indicate a significant decrease of TPHg and benzene concentrations, and an increase of the MTBE and TBA concentrations.

The high solubility of MTBE and the infinite solubility of TBA, make these constituents less to non vapor extractible, and this explains the temporary increase of MTBE and TBA during the HVDPE event. Thrifty assumes that the increases in MTBE and TBA are a result of the depression cone created around the extraction wells, which pulled the MTBE/TBA plume toward the extraction points.

**Table 2** below shows the evolution of groundwater concentrations before, at the beginning and at the end of the 5 day DPE event:

**Table 2:** COMPARATIVE GROUNDWATER SAMPLE RESULTS:

Well ID	Constituent	Date of Sampling and results in ( $\mu\text{g/L}$ )			Comments
		Prior DPE (10/21/09)	Beginning of DPE (03/22/10)	End of DPE (03/27/10)	
RW-1R	TPHg	16,400	8,300	6,600	Significant decrease
	B	124	52	37	Significant decrease
	MTBE	5.1	12	93	Increase explained by the MTBE plume being dragged toward the extraction well
	TBA	<26	<52	<26	0%
MW-2R	TPHg	12,600	6,620	3,191	Significant decrease
	B	396	75	31	Significant decrease
	MTBE	<1.9	62	89	Increase explained by the MTBE plume being dragged toward the extraction well
	TBA	<5.2	<52	1,680	TBA does not enter the vapor phase. Increase explained by the TBA plume being dragged toward the extraction well
MW-4R	TPHg	5,240	4,860	3,300	Moderate decrease
	B	161	28	28	Significant decrease
	MTBE	<1.9	74	186	Increase explained by the MTBE plume being dragged toward the extraction well
	TBA	<5.2	<5.2	363	TBA does not enter the vapor phase. Increase explained by the TBA plume being dragged toward the extraction well

During the HVDPE Event, approximately 12,840 gallons of groundwater and 510.40 pounds of hydrocarbons (as vapor) were removed. The hydrocarbon removal rate over the 5-days was approximately 4.25 pounds per hour which is a relatively high extraction rate.

Data indicates that the mobile 5-day HVDPE event was effective in removing a relatively substantial amount of hydrocarbon mass from soils beneath the site, and therefore Thrifty recommends conducting an additional continuous 30-Day (24-hour/Day) mobile HVDPE event. A workplan presenting the scope of work to be completed during the proposed additional continuous 30-Day (24-hour/Day) HVDPE event is presented later in this submittal.

## **GROUNDWATER CONDITIONS PRIOR TO 5-DAY HVDPE EVENT**

Depth to groundwater is measured in each monitoring well on a semi-annual basis in accordance with the requirements of the ACEHS letter dated July 22, 2009 which quoted the California State Water Resources Board Resolution No. 2009-0042. Groundwater monitoring well locations for former Thrifty Station #049 at 3400 San Pablo Avenue and the former Shell Station at 3420 San Pablo Avenue are presented on **Figure 1**. During the Second Semester 2009 monitoring event, Thrifty's and Shell's wells were jointly gauged and sampled on October 21, 2009. A groundwater elevation contour map based on the Second Semester 2009 monitoring data is presented in **Figure 2**; this map incorporates groundwater elevation data from both the Thrifty and Shell sites. Groundwater elevation data indicates a generally westerly flow direction, with some easterly flow.

As part of the ongoing groundwater-monitoring program, Earth Management Company (EMC) obtained groundwater samples from monitoring wells MW-1, MW-2R, MW-3, MW-4R, MW-5, MW-6, MW-7, and RW-1R on October 21, 2009. A summary of historical analytical sampling results for TPHg, BTEX, and MTBE is provided in **Table 1** and additional oxygenates in **Table 2**. **Attachment B** contains Shell's historic and current well concentration data tables.

TPHg, benzene, MTBE, and tertiary butyl alcohol (TBA) isoconcentration maps were prepared using both Thrifty's and Shell's data from the October 21, 2009 sampling event, and results are presented in **Figures 3, 4, 5, and 6**, respectively. Laboratory results of Thrifty wells indicate that the maximum concentration of TPHg was detected in well RW-1R at 16,400 micrograms per liter (ug/L) and the maximum benzene concentration was detected in well MW-2R at 396 µg/L. MTBE was only detected above the laboratory detection limit in one well, RW-1R, at a concentration of 5.1 µg/L. The maximum ethanol concentration was detected in well MW-4R at 25.4 milligrams per liter (mg/L). No other oxygenated compounds were detected in any of the Thrifty wells.

Second Semester 2009 monitoring and sampling results of the Shell service station wells indicate the following maximum concentrations in dissolved phase:

- 30,000 ug/L TPHg in Shell well MW-2 and 1,900 µg/L benzene in Shell well MW-2; and
- 120 µg/L MTBE in Shell well MW-6R and 430 µg/L TBA in Shell well MW-4

## **PREVIOUS REMEDIAL ACTIVITIES**

Site remedial activities were initiated in April 1991 when a groundwater remediation system was installed that extracted groundwater from well RW-1 and used activated carbon canisters. A discharge

permit was obtained from East Bay Municipal Utility District (EBMUD) prior to discharging the treated water into the sanitary sewer.

In March 1998, the four former USTs and associated piping were removed from the site and replaced with two double-walled USTs. Soil samples collected during tank removal activities indicated up to 7,900 mg/Kg TPHg, 65 mg/Kg benzene; and 40 mg/Kg MTBE. As an interim remedial action, approximately 1,093 tons of hydrocarbon-impacted soils were excavated and transported to TPS Technologies facility in Adelanto, California for treatment. Groundwater was encountered at 7 feet bgs during excavation. Groundwater sample analyses indicated TPHg concentrations ranging from 36,000 µg/L to 130,000 µg/L; benzene concentrations ranged from 650 µg/L to 4,900 µg/L, and MTBE concentrations ranged from 33,000 µg/L to 150,000 µg/L. The groundwater accumulated during the tank replacement was pumped out of the tank excavation pit into a 20,000 gallons Baker's tank, and the water was treated using the existing groundwater remediation system at the site. The total pit water treated during tank replacement was 7,000 gallons.

In 2004, Thrifty selected Advanced GeoEnvironmental (AGE) to conduct remedial system upgrade activities including installation of a new treatment compound, installation of new piping, connection of piping to the replacement well network, and the operation and maintenance of the upgraded groundwater pump and treat system. In January 2004, AGE abandoned wells MW-2, MW-4, and RW-1 and replaced them with wells MW-2R, MW-4R, and RW-1R, respectively.

On June 21, 2004, the upgraded remediation system was restarted by AGE for continuous operation. The primary components of the upgraded system within the treatment compound consist of an air compressor, 500 gallon Poly settling tank, control panel, and three 200-pound granular activated carbon canisters. The upgraded system is extracting groundwater from extraction wells MW-2R, MW-4R, and RW-1R that are each equipped with downhole submersible pumps.

On January 12, 2005, system operations and maintenance duties were assumed by Earth Management Company (EMC) from AGE.

As of November 10, 2009, the system treated approximately 2,266,866 gallons of groundwater since start up (April 1991).

## **CONTINUOUS THIRTY DAY (24 HOURS/ DAY) MOBILE HIGH VACUUM DUAL-PHASE EXTRACTION EVENT WORKPLAN**

Thrifty estimates that approximately 2,390 pounds of hydrocarbons remain beneath the site and that future hydrocarbon removal rates will decline to an average of approximately 3.5 pounds per hour as the remaining hydrocarbon mass shrinks during active remediation. Given the 3.5 pounds per hour removal rate; and the remaining hydrocarbon mass (estimated at 2,390 pounds), it is estimated that it will take approximately 30 days to remediate the remaining mass of contamination in the area of wells MW-2R, MW-4R, and RW-1R. Thrifty therefore recommends conducting a Continuous 30-Day (24-hour/Day) Mobile Dual Phase Extraction (30-Day HVDPE) event to remediate the soils at the site in the area of wells MW-2R, MW-4R, and RW-1R.

If data indicates that this remedial action method has reduced groundwater and vapor concentrations to levels acceptable for closure or if hydrocarbon removal rates are so low as to not be cost effective, the 30-day event will be terminated as warranted.

The estimated cost for the proposed 30-Day HVDPE event is:

- Equipment and labor = \$44,700
- Laboratory costs = \$3,608
- Reporting costs = \$750

Total estimated cost = \$49,058

The following section outlines the procedures and laboratory analysis that will be completed during the proposed 30-Day HVDPE event. A mobile high-vacuum dual-phase extraction (HVDPE) rig, supplied by CalClean of Tustin, California, will be used during the event. The HVDPE rig specifications include a liquid-ring pump capable of extracting vapors at 450 cubic feet per minute (cfm), with available vacuum to 29 inches of mercury (in Hg). The HVDPE rig is equipped with a liquid knockout pot having an automatic transfer pump, manual and automatic dilution air control, a high-vacuum blower (powered by a separate mobile generator), and a propane fired thermal oxidizer for destruction of extracted vapors.

### **30-Day HVDPE Event Procedure**

HVDPE will be conducted extracting from wells MW-2R, MW-4R, and RW-1R using CalClean's HVDPE rig and down-well stingers to extract soil vapors and liquids from the formation. The wells will be sealed at the surface to prevent intrusion of atmospheric air, and the stinger will be set approximately 6-inches above the bottom of the extraction wells in order to maximize exposure of the formation to vapor extraction. Groundwater will be simultaneously extracted to the surface and separated by an in-line water knockout vessel.

The wellhead vacuums, extracted vapor and liquid flow rates, and vapor concentration (as measured with a Horiba PID, calibrated to 100 parts per million volume [ppmV]) hexane were measured periodically from each extraction well during their respective tests. The total depth of the stinger below the water table was also recorded.

- Influent vapor concentrations in wells MW-2R, MW-4R, and RW-1R will be measured (using a PID calibrated with hexane gas) at the beginning of the HVDPE event and every 4-hours during the HVDPE event. Other parameters such as manifold applied vacuum (inches of Hg), system flow rate (scfm), system flow temperature (degrees Fahrenheit), and wellhead vacuum will also be recorded every four hours.
- Vapor samples will be collected from wells MW-2R, MW-4R, RW-1R and the total vapor inlet sample port one hour after start up of the HVDPE event and on a weekly basis thereafter (with results due within 72-hours). The vapor samples (collected in tedlar bags) will be sent to Associated Laboratories to be analyzed for petroleum hydrocarbons as gasoline using Method 8015 Modified, and for BTEX, MTBE, and other oxygenates using EPA Method 8260B.

- Influent groundwater samples will be collected from extraction wells MW-2R, MW-4R, and RW-1R one hour after start up of the HVDPE event and on a weekly basis thereafter (with results due within 72-hours). The groundwater samples will be sent to Associated Laboratories to be analyzed for petroleum hydrocarbons as gasoline using Method 8015 Modified, and for BTEX, MTBE, and other oxygenates using EPA Method 8260B. Groundwater depth is to be measured in the extraction wells and observation wells before starting the HVDPE event and at the mid-point and end of each day. A stinger will be installed in extraction wells at a depth that will maximize exposure of the formation and the well head is to be sealed to prevent the intrusion of atmospheric air. Stinger depth is to be recorded.
- Vacuum drawdown and depth to water will be measured in all observation wells (MW-1, MW-3, and MW-7) at the beginning, mid-point, and end of each day of the event. Vacuum responses will be measured and recorded at the beginning of the HVDPE event and every 4-hours for the duration of the test. The depth to groundwater will be measured before starting the HVDPE event and at the end of each day in the observation wells.

All non-hazardous liquids that are generated during the mobile HVDPE events at the site will be temporarily stored in poly tanks, and then treated and discharged through the existing onsite groundwater discharge system in accordance with East Bay Municipal Utility District (EBMUD) permit No. 50244452.


### Reporting Compilation and Evaluation for Site Closure

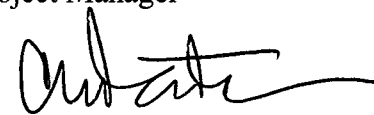
Results of the Continuous 30-Day HVDPE event will be summarized in HVDPE Report that will be submitted to the ACHCS 30-days following the completion of field activities.


### Schedule

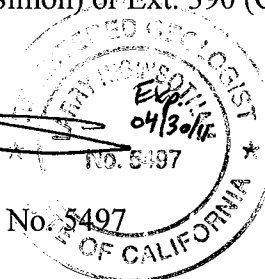
Upon your approval, Thrifty will proceed with the proposed 30-Day HVDPE event.

If you have any questions, please call us at (562) 921-3581, Ext. 260 (Simon) or Ext. 390 (Chris).

  
Simon Tregurtha  
Project Manager

  
Chris Panaitescu  
General Manager  
Environmental Affairs

  
Larry Higinbotham  
Registered Geologist No. 5497



cc: BP West Coast Products LLC; Mr. John Skance  
File

# ***TABLES***

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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>											
Screen Interval = 5 to 25 feet						Casing Diameter = 2 inches					
01/09/92	-	-	-	-	-	-	NP	5.54	0.00	98.03	92.49
04/13/92	-	-	-	-	-	-	NP	5.86	0.00	98.03	92.17
10/05/92	-	-	-	-	-	-	NP	9.39	0.00	98.03	88.64
01/06/93	-	-	-	-	-	-	NP	4.76	0.00	98.03	93.27
04/26/93	-	-	-	-	-	-	NP	4.96	0.00	98.03	93.07
01/04/94	-	-	-	-	-	-	NP	7.00	0.00	98.03	91.03
04/05/94	-	-	-	-	-	-	NP	6.44	0.00	98.03	91.59
10/09/95	44,000	4,500	4,300	1,700	10,000	-	-	-	-	98.03	-
01/08/96	21,000	1,200	150	34	4,800	-	NP	6.15	0.00	98.03	91.88
04/08/96	4,700	80	110	10	910	-	NP	5.40	0.00	98.03	92.63
07/22/96	7,000	280	130	<3.0	2,100	440	NP	5.50	0.00	98.03	92.53
10/16/96	120	<0.3	<0.3	<0.3	<0.5	180	NP	6.02	0.00	98.03	92.01
01/22/97	160	<0.3	<0.3	<0.3	<0.5	360	NP	4.40	0.00	98.03	93.63
04/21/97	20,000	420	140	5.8	840	55,000	NP	6.30	0.00	98.03	91.73
07/14/97	13,000	<0.3	<0.3	<0.3	<0.55	30,000	NP	5.92	0.00	98.03	92.11
10/07/97	-	-	-	-	-	-	7.70	7.71	0.01	98.03	90.33
01/15/98	<50	0.3	<0.3	<0.3	<0.5	<5.0	NP	4.40	0.00	98.03	93.63
04/23/98	540	<0.3	<0.3	<0.3	<0.5	<20	NP	8.10	0.00	98.03	89.93
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	5.55	0.00	98.03	92.48
10/14/98	50	1.4	0.56	<0.3	11	22	NP	7.05	0.00	98.03	90.98
01/21/99	<50	0.59	<0.3	<0.3	<0.5	<5.0	NP	4.10	0.00	98.03	93.93
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	4.30	0.00	98.03	93.73
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	5.54	0.00	98.03	92.49
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.13	0.00	98.03	91.90
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.04	0.00	98.03	91.99
04/05/00	<50	<0.25	<0.25	<0.25	<0.5	<5.0	NP	4.03	0.00	98.03	94.00
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	4.00	0.00	98.03	94.03
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	5.53	0.00	98.03	92.50
01/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.97	0.00	98.03	94.06
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.98	0.00	98.03	94.05
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	5.51	0.00	98.03	92.52
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.97	0.00	98.03	94.06
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.95	0.00	98.03	94.08
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	2.42	0.00	98.03	95.61
07/31/02	<50	<0.18	1.3	<0.18	<0.26	<0.24	NP	5.49	0.00	98.03	92.54
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	16	NP	6.13	0.00	98.03	91.90
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	2.45	0.00	98.03	95.58
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	7.02	0.00	98.03	91.01
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.15	0.00	98.03	92.88
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	5.13	0.00	98.03	92.90
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	3.92	0.00	98.03	94.11
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	4.54	0.00	98.03	93.49
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	7.01	0.00	98.03	91.02
10/20/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.46	0.00	98.03	92.57
01/19/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.48	0.00	98.03	92.55
04/20/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	6.99	0.00	98.03	91.04
07/20/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.42	0.00	98.03	91.61
10/19/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.98	0.00	98.03	91.05
01/24/06	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	4.56	0.00	98.03	93.47
04/19/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	3.93	0.00	98.03	94.10



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THRIFTY OIL STATION #049, 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)					
07/19/06	17,100	21	279	388	2,010	128	NP	5.92	0.00	98.03	92.11
09/15/06	<5.6	<0.32	<0.10	<0.24	<0.30	33	NP	6.38	0.00	98.03	91.65
10/18/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.99	0.00	98.03	91.04
01/17/07	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.40	0.00	31.55	26.15
04/18/07	<5.6	<0.32	<0.10	<0.24	<0.3	7.1	NP	5.46	0.00	31.55	26.09
07/18/07	<5.6	<0.18	<0.24	<0.21	<0.45	4.9	NP	5.92	0.00	31.55	25.63
10/17/07	<5.6	<0.18	<0.24	<0.21	<0.45	1.6	NP	5.46	0.00	31.55	26.09
01/16/08	<5.6	<0.18	<0.24	<0.21	<0.45	1.3	NP	5.46	0.00	31.55	26.09
04/22/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.45	0.00	31.55	26.10
07/16/08	<6.6	<0.18	<0.24	<0.21	1.2 J	<0.19	NP	6.96	0.00	31.55	24.59
10/15/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.44	0.00	31.55	26.11
01/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.47	0.00	31.55	26.08
04/15/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.48	0.00	31.55	26.07
10/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.46	0.00	31.55	26.09
<b>MONITORING WELL #MW-2</b>											
Screen Interval = 5 to 25 feet											
01/09/92	-	-	-	-	-	-	NP	5.35	0.00	97.44	92.09
04/13/92	-	-	-	-	-	-	NP	7.42	0.00	97.44	90.02
10/05/92	-	-	-	-	-	-	NP	12.15	0.00	97.44	85.29
01/06/93	-	-	-	-	-	-	NP	5.46	0.00	97.44	91.98
04/26/93	-	-	-	-	-	-	NP	5.15	0.00	97.44	92.29
01/04/94	-	-	-	-	-	-	NP	9.45	0.00	97.44	87.99
04/05/94	-	-	-	-	-	-	NP	8.23	0.00	97.44	89.21
10/09/95	33,000	6,000	390	1,700	4,900	-	-	-	-	97.44	-
01/08/96	<50	0.32	<0.3	0.41	2.1	-	NP	5.60	0.00	97.44	91.84
04/08/96	10,000	490	210	210	830	-	NP	5.43	0.00	97.44	92.01
07/22/96	60,000	6,500	1,000	1,500	10,000	8,500	NP	5.65	0.00	97.44	91.79
10/16/96	6,500	12	0.34	0.72	110	4,700	NP	5.82	0.00	97.44	91.62
01/22/97	3,200	<0.3	0.46	0.37	<0.5	8,000	NP	4.30	0.00	97.44	93.14
04/21/97	66,000	5,300	1,000	2,300	14,000	30,000	NP	5.80	0.00	97.44	91.64
07/14/97	17,000	1.8	4.6	4.6	350	24,000	NP	8.92	0.00	97.44	88.52
10/07/97	220,000	5,200	1,700	3,800	15,000	-	NP	6.80	0.00	97.44	90.64
01/19/98	25,000	5.4	2.2	2.1	240	-	NP	8.50	0.00	97.44	88.94
04/23/98	7,700	<0.3	0.55	0.38	4.9	28,000	NP	7.60	0.00	97.44	89.84
07/20/98	430,000	4,200	10,000	5,400	28,000	77,000	NP	6.94	0.00	97.44	90.50
10/14/98	27,000	<0.3	4.5	4.1	4.6	65,000	NP	8.45	0.00	97.44	88.99
01/21/99	16,000	7.6	9.8	4.2	310	* 49,000 / 42,000	NP	6.95	0.00	97.44	90.49
04/15/99	20,000	<0.3	<0.3	<0.3	<0.5	* 31,000 / 30,000	NP	8.45	0.00	97.44	88.99
07/26/99	6,700	<6.0	<6.0	<6.0	<10	**11,000 / 15,000	NP	6.94	0.00	97.44	90.50
10/13/99	7,600	<3.0	3.7	<3.0	11	11,000	NP	5.48	0.00	97.44	91.96
01/20/00	7,500	<6.0	<6.0	<6.0	<10	*14,000 / 16,000	NP	5.84	0.00	97.44	91.60
04/05/00	10,400	<0.25	<0.25	<0.25	<0.5	*10,000 / 14,400	NP	5.41	0.00	97.44	92.03
07/19/00	130	<0.3	<0.3	<0.3	<0.6	*9,620 / 6,520	NP	5.40	0.00	97.44	92.04
10/18/00	150	<0.18	<0.14	<0.18	<0.26	*9,090 / 6,560	NP	6.91	0.00	97.44	90.53
01/17/01	75	<0.18	2.0	2.0	3.0	*8,650 / 9,710	NP	5.41	0.00	97.44	92.03
04/19/01	4,380	<0.18	<0.14	<0.18	<0.26	8,890	NP	5.40	0.00	97.44	92.04
07/18/01	3,260	<0.18	<0.14	<0.18	2.0	*7960 / 1,710	NP	6.92	0.00	97.44	90.52
10/10/01	1,760	<0.18	<0.14	<0.18	<0.26	*2,980 / 2,600	NP	3.87	0.00	97.44	93.57
01/30/02	1,770	<0.18	1.0	1.0	2.0	*2,560 / 1,590	NP	8.45	0.00	97.44	88.99
04/17/02	1,470	1.0	<0.14	<0.18	<0.26	*2,460 / 2,080	NP	8.45	0.00	97.44	88.99

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
07/31/02	3,910	<0.18	1.2	<0.18	2.1	*2,090 / 1,740	NP	9.98	0.00	97.44	87.46
11/14/02	39,400	1,680	728	173	5,120	8,270	NP	5.40	0.00	97.44	92.04
01/29/03	22,100	746	76	<1.0	2,840	8,220	NP	8.43	0.00	97.44	89.01
04/23/03	19,500	<0.8	<0.4	<0.4	<1.2	9,580	NP	5.38	0.00	97.44	92.06
07/10/03	29,900	<2.2	<3.2	<3.1	<4.0	6,690	NP	5.10	0.00	97.44	92.34
10/20/03	13,000	4.79	<0.02	<0.02	<0.06	*6,330 / 5,980	NP	5.10	0.00	97.44	92.34
WELL ABANDONED 01/2004											
<b>MONITORING WELL #MW-2R</b>											
Screen Interval = 5 to 20 feet						Casing Diameter = 4 inches					
02/03/04							-	-	-	-	-
04/08/04	11,600	304	16 J	55	427	4,170	NP	4.58	0.00	-	-
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	6.72	0.00	-	-
10/20/04	20,900	3,180	2,970	259	1,240	92	NP	3.72	0.00	-	-
01/19/05	18,900	537	250	866	2,290	3,340	NP	4.50	0.00	-	-
04/20/05	13,100	<2.2	<3.2	<3.1	<4.0	563	NP	5.27	0.00	-	-
07/07/05	2,500	70	7.6	<0.24	160	1,930	-	-	-	-	-
07/20/05	4,260	392	15 J	175	100	742	NP	6.12	0.00	-	-
10/19/05	321	<0.32	<0.10	<0.24	<0.30	423	NP	5.28	0.00	-	-
01/24/06	3,200	34	331	87	510	86	NP	4.58	0.00	-	-
04/19/06	22,100	440	4,240	234	1,530	195	NP	3.38	0.00	-	-
07/19/06	15,800	377	629	627	578	530	NP	8.10	0.00	-	-
09/15/06	-	-	-	-	-	-	-	-	-	-	-
10/18/06	57,600	75	5,730	1,770	7,820	263	NP	5.28	0.00	-	-
01/17/07	117,000	254	15,200	4,840	26,800	300	NP	6.82	0.00	30.49	23.67
04/18/07	896	<0.32	<0.10	<0.24	117	49	NP	7.60	0.00	30.49	22.89
07/18/07	2,290	106	3.7 J	2.2 J	160	146	NP	5.62	0.00	30.49	24.87
10/17/07	313	<0.18	5.9	1.6 J	20	162	NP	3.41	0.00	30.49	27.08
01/16/08	77	<0.18	<0.24	<0.21	<0.45	105	NP	4.51	0.00	30.49	25.98
04/22/08	30,300	165	3,660	2,060	11,400	<19	NP	7.59	0.00	30.49	22.90
07/16/08	15,100	62	600	186	1,260	148	NP	5.26	0.00	30.49	25.23
10/15/08	291	12	<0.24	<0.21	1.1 J	263	NP	4.52	0.00	30.49	25.97
01/21/09	1,060	11	176	41	243	123	NP	4.52	0.00	30.49	25.97
04/15/09	26,500	154	2,360	874	5,600	66	NP	4.53	0.00	30.49	25.96
10/21/09	12,600	396	2,360	469	2,870	<1.9	NP	3.79	0.00	30.49	26.70
<b>MONITORING WELL #MW-3</b>											
Screen Interval = 5 to 25 feet						Casing Diameter = 2 inches					
01/09/92	-	-	-	-	-	-	NP	17.60	0.00	97.69	80.09
04/13/92	-	-	-	-	-	-	NP	17.40	0.00	97.69	80.29
10/05/92	-	-	-	-	-	-	NP	17.35	0.00	97.69	80.34
01/06/93	-	-	-	-	-	-	NP	17.40	0.00	97.69	80.29
04/26/93	-	-	-	-	-	-	NP	17.90	0.00	97.69	79.79
01/04/94	-	-	-	-	-	-	NP	17.60	0.00	97.69	80.09
04/05/94	-	-	-	-	-	-	NP	16.25	0.00	97.69	81.44
01/08/96	-	-	-	-	-	-	NP	7.11	0.00	97.69	90.58
04/08/96	8,800	610	31	530	900	-	NP	7.20	0.00	97.69	90.49
07/22/96	38,000	4,100	1,500	1,600	5,400	2,600	NP	6.82	0.00	97.69	90.87
10/16/96	2,400	<0.3	<0.3	<0.3	<0.5	3,800	NP	6.84	0.00	97.69	90.85
01/22/97	2,200	<0.3	<0.3	<0.3	<0.5	5,500	NP	4.80	0.00	97.69	92.89
04/21/97	15,000	1,500	36	260	710	11,000	NP	9.40	0.00	97.69	88.29
07/14/97	5,400	0.45	<0.3	<0.3	<0.5	14,000	NP	10.92	0.00	97.69	86.77

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
10/07/97	8,800	0.39	<0.3	<0.3	0.88	-	NP	11.95	0.00	97.69	85.74
01/19/98	22,000	1,300	15	20	310	-	NP	7.85	0.00	97.69	89.84
04/23/98	9,200	3.9	3.1	5.7	9.8	16,000	NP	11.20	0.00	97.69	86.49
07/20/98	750	0.41	1.4	0.47	1.8	2,800	NP	7.36	0.00	97.69	90.33
10/14/98	750	<0.3	<0.3	<0.3	<0.5	15,000	NP	11.95	0.00	97.69	85.74
01/21/99	4,700	0.32	<0.3	<0.3	<0.5	* 12,000 / 16,000	NP	10.45	0.00	97.69	87.24
04/15/99	7,900	0.59	0.69	<0.3	0.94	* 11,000 / 14,000	NP	7.86	0.00	97.69	89.83
07/26/99	5,200	<3.0	<3.0	<3.0	<5.0	*9,600 / 11,000	NP	10.40	0.00	97.69	87.29
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	7.09	0.00	97.69	90.60
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.86	0.00	97.69	90.83
04/05/00	<50	0.8	<0.25	<0.25	<0.5	*5.6 / <5.0	NP	8.85	0.00	97.69	88.84
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	8.86	0.00	97.69	88.83
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	7.32	0.00	97.69	90.37
01/17/01	<50	<0.18	2.0	<0.18	1.0	*39 / 39	NP	5.40	0.00	97.69	92.29
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	8.87	0.00	97.69	88.82
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	7.32	0.00	97.69	90.37
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	8.87	0.00	97.69	88.82
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	5.78	0.00	97.69	91.91
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	7.31	0.00	97.69	90.38
07/31/02	138	1.1	1.2	<0.18	<0.26	<0.24	NP	5.76	0.00	97.69	91.93
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	21	NP	5.73	0.00	97.69	91.96
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	16	NP	7.30	0.00	97.69	90.39
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	16	NP	5.76	0.00	97.69	91.93
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	11	NP	5.63	0.00	97.69	92.06
10/20/03	13,700	4.13	<0.02	<0.02	<0.06	*6,570 / 4,920	NP	5.61	0.00	97.69	92.08
01/14/04	1,160	2.0	2.2	6.1	7.8	*1,510 / 767	NP	4.23	0.00	97.69	93.46
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.48	0.00	97.69	92.21
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	6.66	0.00	97.69	91.03
10/20/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	4.20	0.00	97.69	93.49
01/19/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.74	0.00	97.69	91.95
04/20/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	7.23	0.00	97.69	90.46
07/20/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.82	0.00	97.69	90.87
10/19/05	<2.9	<0.32	<0.10	<0.24	<0.30	7.0	NP	7.26	0.00	97.69	90.43
01/24/06	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.50	0.00	97.69	92.19
04/19/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.72	0.00	97.69	91.97
07/19/06	12,900	539	744	169	296	1,640	NP	5.63	0.00	97.69	92.06
09/15/06	1,750	4.3	68	11	90	502	NP	6.62	0.00	97.69	91.07
10/18/06	75	<0.32	<0.10	1.1 J	1.1 J	47	NP	5.72	0.00	97.69	91.97
01/17/07	<5.6	<0.32	2.1 J	<0.24	1.0 J	13	NP	5.73	0.00	31.15	25.42
04/18/07	<5.6	<0.32	2.0 J	<0.24	6.2	11	NP	5.74	0.00	31.15	25.41
07/18/07	<5.6	<0.18	2.2 J	<0.21	1.3 J	5.3	NP	8.36	0.00	31.15	22.79
10/17/07	<5.6	1.0	<0.24	<0.21	<0.45	1.5	NP	5.74	0.00	31.15	25.41
01/16/08	<5.6	<0.18	<0.24	<0.21	<0.45	1.3	NP	5.73	0.00	31.15	25.42
04/22/08	<6.6	<0.18	<0.24	<0.21	<0.45	1.2	NP	5.73	0.00	31.15	25.42
07/16/08	<6.6	<0.18	1.0 J	<0.21	1.5 J	<0.19	NP	7.23	0.00	31.15	23.92
10/15/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.72	0.00	31.15	25.43
01/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.76	0.00	31.15	25.39
04/15/09	<6.6	<0.18	1.1 J	<0.21	<0.45	<0.19	NP	5.73	0.00	31.15	25.42
10/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.23	0.00	31.15	26.92

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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-4</b>											
Screen Interval = 4 to 14 feet											
01/09/92	-	-	-	-	-	-	NP	5.25	0.00	97.33	92.08
04/13/92	-	-	-	-	-	-	NP	6.40	0.00	97.33	90.93
10/05/92	-	-	-	-	-	-	NP	9.95	0.00	97.33	87.38
01/06/93	-	-	-	-	-	-	NP	4.10	0.00	97.33	93.23
04/26/93	-	-	-	-	-	-	NP	4.84	0.00	97.33	92.49
01/04/94	-	-	-	-	-	-	NP	9.05	0.00	97.33	88.28
04/05/94	-	-	-	-	-	-	NP	8.10	0.00	97.33	89.23
10/09/95	63,000	9,000	2,100	2,500	9,600	-	-	-	-	97.33	-
01/08/96	23,000	2,200	830	880	3,600	-	NP	5.57	0.00	97.33	91.76
04/08/96	56,000	5,000	2,500	2,600	11,000	-	NP	5.36	0.00	97.33	91.97
07/22/96	33,000	3,700	1,600	1,400	6,000	2,400	NP	4.80	0.00	97.33	92.53
10/16/96	2,800	7.8	0.60	0.41	52	2,000	NP	5.47	0.00	97.33	91.86
01/22/97	1,400	<0.3	<0.3	<0.3	<0.5	3,100	NP	5.15	0.00	97.33	92.18
04/21/97	-	-	-	-	-	-	5.30	6.36	1.06	97.33	91.77
07/14/97	-	-	-	-	-	-	5.21	5.24	0.03	97.33	92.11
10/07/97	-	-	-	-	-	-	7.80	7.82	0.02	97.33	89.53
01/15/98	-	-	-	-	-	-	6.60	6.68	0.08	97.33	90.71
04/23/98	-	-	-	-	-	-	5.30	6.36	1.06	97.33	91.77
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.05	0.00	97.33	91.28
10/14/98	3,100	86	23	2.0	520	1,100	NP	6.85	0.00	97.33	90.48
01/21/99	9,100	3.2	5.6	1.8	130	* 24,000 / 17,000	NP	6.10	0.00	97.33	91.23
04/15/99	14,000	<0.3	0.71	<0.3	<0.5	* 20,000 / 22,000	NP	6.05	0.00	97.33	91.28
07/26/99	4,500	<6.0	<6	<6	<10	*8,700 / 9,800	NP	6.07	0.00	97.33	91.26
10/13/99	410	<0.3	0.63	<0.3	<0.5	660	NP	5.64	0.00	97.33	91.79
01/20/00	770	<0.3	<0.3	<0.3	<0.5	*2,400 / 1,900	NP	5.49	0.00	97.33	91.84
04/05/00	61,200	0.9	<0.25	<0.25	<0.5	*18,500 / 21,900	NP	5.30	0.00	97.33	92.03
07/19/00	96,600	1,770	1,760	2,690	8,730	21,900 / 9,740 J	NP	5.29	0.00	97.33	92.04
10/18/00	34,900	698	1,010	607	4,130	*27,800 / 15,900	NP	6.02	0.00	97.33	91.31
01/17/01	29,100	799	930	614	3,400	*24,300 / 31,400	NP	4.88	0.00	97.33	92.45
04/19/01	103,000	4,880	3,980	3,260	11,800	66,900	NP	4.89	0.00	97.33	92.44
07/18/01	52,200	3,320	2,090	440	5,520	*55,500 / 16,800	NP	6.04	0.00	97.33	91.29
10/10/01	8,580	6.1	14	5.3	70	*40,100 / 30,000	NP	4.51	0.00	97.33	92.82
01/30/02	36,500	<0.18	3.0	1.0	3.0	*43,000 / 24,900	NP	4.51	0.00	97.33	92.82
04/17/02	12,900	8.0	1.0	<0.18	1.0	16,000 / 13,600	NP	4.51	0.00	97.33	92.82
07/31/02	19,300	<0.18	1.2	1.5	2.6	*13,200 / 10,100	NP	5.26	0.00	97.33	92.07
11/14/02	36,200	1,720	940	235	6,190	8,280	NP	5.27	0.00	97.33	92.06
01/29/03	13,000	444	39	<0.4	1,200	8,160	NP	4.50	0.00	97.33	92.83
04/23/03	7,430	130	5.7	<0.2	387	5,830	NP	4.80	0.00	97.33	92.53
07/10/03	16,200	<2.2	<3.2	<3.1	<4.0	3,930	NP	4.55	0.00	97.33	92.78
10/20/03	6,040	672	384	3.4	444	*3,780 / 3,220	NP	4.56	0.00	97.33	92.77
WELL ABANDONED 01/2004											
<b>MONITORING WELL #MW-4R</b>											
Screen Interval = 5 to 20 feet											
Casing Diameter = 4 inches											
02/03/04	-	-	-	-	-	-	-	-	-	-	-
04/08/04	37,900	819	424	159	3,190	18,400	NP	4.96	0.00	-	-
07/21/04	14,500	<2.2	<3.2	<3.1	39 J	18,900	NP	6.60	0.00	-	-
10/20/04	66,000	6,390	6,560	672	3,290	13,300	NP	3.38	0.00	-	-
01/19/05	17,600	513	240	855	2,230	3,310	NP	4.32	0.00	-	-
04/20/05	19,200	190	109	452	974	1,870	NP	4.72	0.00	-	-
07/07/05	11,500	233	68	369	875	2,350	-	-	-	-	-

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
07/20/05	11,300	251	90	154	1,460	1,280	NP	6.08	0.00	-	-
10/19/05	1,310	<0.32	<0.10	<0.24	<0.30	1,160	NP	5.08	0.00	-	-
01/24/06	41,300	391	2,310	871	5,430	388	NP	4.98	0.00	-	-
04/19/06	26,100	399	1,290	254	3,350	732	NP	4.72	0.00	-	-
07/19/06	34,500	38	1,120	251	3,950	115	NP	6.84	0.00	-	-
09/15/06	-	-	-	-	-	-	-	-	-	-	-
10/18/06	37,000	<32	3,910	1,350	5,770	389	NP	5.85	0.00	-	-
01/17/07	211,000	223	22,800	5,670	33,800	<126	NP	6.62	0.00	30.23	23.61
04/18/07	13,000	52	2,300	97 J	5,140	102	NP	7.02	0.00	30.23	23.21
07/18/07	2,510	88	1.7 J	<0.21	107	124	NP	5.36	0.00	30.23	24.87
10/17/07	580	<0.18	24	3.9 J	81	120	NP	4.72	0.00	30.23	25.51
01/16/08	2,040	14	5.6	33	97	107	NP	4.34	0.00	30.23	25.89
04/22/08	1,310	24	329	111	582	<1.9	NP	7.00	0.00	30.23	23.23
07/16/08	33,400	236	2,030	1,030	6,990	6.6	NP	5.05	0.00	30.23	25.18
10/15/08	1,800	61	2.4 J	<0.21	23	130	NP	4.35	0.00	30.23	25.88
01/21/09	750	15	170	38	221	109	NP	4.35	0.00	30.23	25.88
04/15/09	27,100	197	2,300	894	4,810	<19.0	NP	4.35	0.00	30.23	25.88
10/21/09	5,240	161	712	145	1,000	<1.9	NP	3.40	0.00	30.23	26.83

MONITORING WELL #MW-5											
Screen Interval = 4 to 14 feet							Casing Diameter = 2 inches				
01/09/92	-	-	-	-	-	-	NP	5.32	0.00	98.85	93.53
04/13/92	-	-	-	-	-	-	NP	4.82	0.00	98.85	94.03
10/0/92	-	-	-	-	-	-	NP	8.78	0.00	98.85	90.07
01/06/93	-	-	-	-	-	-	NP	3.46	0.00	98.85	95.39
04/26/93	-	-	-	-	-	-	NP	4.66	0.00	98.85	94.19
01/04/94	-	-	-	-	-	-	NP	6.36	0.00	98.85	92.49
04/05/94	-	-	-	-	-	-	NP	5.94	0.00	98.85	92.91
07/12/95	<100	<0.5	<0.5	<0.5	<1.0	-	-	-	-	98.85	-
10/09/95	440	31	11	19	84	-	-	-	-	98.85	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	NP	6.63	0.00	98.85	92.22
04/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	NP	5.22	0.00	98.85	93.63
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	6.62	0.00	98.85	92.23
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	6.12	0.00	98.85	92.73
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	5.17	0.00	98.85	93.68
04/21/97	73	2.5	0.34	0.74	3.8	21	NP	6.64	0.00	98.85	92.21
07/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	6.67	0.00	98.85	92.18
10/07/97	130	<0.3	<0.3	<0.3	<0.5	-	NP	8.20	0.00	98.85	90.65
01/19/98	85	<0.3	<0.3	<0.3	<0.5	-	NP	1.55	0.00	98.85	97.30
04/23/98	220	0.39	<0.3	<0.3	<0.5	350	NP	8.10	0.00	98.85	90.75
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.30	0.00	98.85	92.55
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	7.65	0.00	98.85	91.20
01/21/99	<50	<0.3	<0.3	<0.3	<0.5	*6.7 / <5.0	NP	6.15	0.00	98.85	92.70
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	1.60	0.00	98.85	97.25
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.13	0.00	98.85	92.72
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.61	0.00	98.85	92.24
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.14	0.00	98.85	92.71
04/05/00	<50	0.5	<0.25	<0.25	<0.5	*5.4 / <5.0	NP	4.58	0.00	98.85	94.27
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	4.59	0.00	98.85	94.26
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	6.28	0.00	98.85	92.57
01/17/01	<50	<0.18	<0.14	<0.18	1.0	*5.0 / 4.8	NP	4.58	0.00	98.85	94.27

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	4.58	0.00	98.85	94.27
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	6.12	0.00	98.85	92.73
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	4.58	0.00	98.85	94.27
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	4.48	0.00	98.85	94.37
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	4.58	0.00	98.85	94.27
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	6.10	0.00	98.85	92.75
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	<0.4	NP	6.11	0.00	98.85	92.74
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	7.1	NP	4.55	0.00	98.85	94.30
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	7.9	NP	3.03	0.00	98.85	95.82
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	7.4	NP	5.25	0.00	98.85	93.60
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	*9.11 / 9.2	NP	5.25	0.00	98.85	93.60
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	*8.2 / 4.1	NP	3.03	0.00	98.85	95.82
04/08/04	797	<0.22	<0.32	<0.31	<0.4	635	NP	4.35	0.00	98.85	94.50
07/21/04	548	<0.22	<0.32	<0.31	<0.4	788	NP	5.56	0.00	98.85	93.29
10/20/04	901	<0.22	<0.32	<0.31	<0.4	734	NP	4.15	0.00	98.85	94.70
01/19/05	350	<0.22	<0.32	<0.31	<0.4	860	NP	4.57	0.00	98.85	94.28
04/20/05	718	<0.22	<0.32	<0.31	<0.4	848	NP	6.10	0.00	98.85	92.75
07/20/05	255	<0.32	<0.10	<0.24	<0.30	274	NP	5.76	0.00	98.85	93.09
10/19/05	225	<0.32	<0.10	<0.24	<0.30	300	NP	6.10	0.00	98.85	92.75
01/24/06	681	<0.32	<0.10	<0.24	<0.30	334	NP	4.34	0.00	98.85	94.51
04/19/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	4.58	0.00	98.85	94.27
07/19/06	3,500	11	584	52	208	<0.63	NP	5.56	0.00	98.85	93.29
09/15/06	<5.6	<0.32	<0.10	<0.24	<0.30	1.8	NP	5.81	0.00	98.85	93.04
10/18/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.08	0.00	98.85	92.77
01/17/07	162	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.09	0.00	32.30	26.21
04/18/07	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	6.09	0.00	32.30	26.21
07/18/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	6.52	0.00	32.30	25.78
10/17/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.55	0.00	32.30	27.75
01/16/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.56	0.00	32.30	27.74
04/22/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	6.11	0.00	32.30	26.19
07/16/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	6.08	0.00	32.30	26.22
10/15/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.53	0.00	32.30	27.77
01/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.60	0.00	32.30	27.70
04/15/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.60	0.00	32.30	27.70
10/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.17	0.00	32.30	28.13
<b>MONITORING WELL #MW-6</b>											
Screen Interval = 4 to 14 feet						Casing Diameter = 2 inches					
01/09/92	-	-	-	-	-	-	NP	6.30	0.00	99.67	93.37
04/13/92	-	-	-	-	-	-	NP	5.47	0.00	99.67	94.20
10/05/92	-	-	-	-	-	-	NP	9.85	0.00	99.67	89.82
01/06/93	-	-	-	-	-	-	NP	4.16	0.00	99.67	95.51
04/26/93	-	-	-	-	-	-	NP	5.75	0.00	99.67	93.92
01/14/94	-	-	-	-	-	-	NP	7.20	0.00	99.67	92.47
04/05/94	-	-	-	-	-	-	NP	6.76	0.00	99.67	92.91
07/10/95	<100	<0.5	0.9	<0.5	1.1	-	-	-	-	99.67	-
10/09/95	250	4.8	5.6	11	58	-	-	-	-	99.67	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	NP	6.16	0.00	99.67	93.51
04/08/96	230	4.6	4.7	3.2	33	-	NP	4.60	0.00	99.67	95.07
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	7.30	0.00	99.67	92.37
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	5.82	0.00	99.67	93.85

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	4.40	0.00	99.67	95.27
04/21/97	130	<0.3	<0.3	<0.3	<0.5	<20	NP	7.10	0.00	99.67	92.57
07/14/97	<50	<0.3	<0.3	<0.3	0.70	<20	NP	7.35	0.00	99.67	92.32
10/07/97	<50	0.78	0.3	<0.3	<0.5	-	NP	6.98	0.00	99.67	92.69
01/23/98	<50	<0.3	<0.3	<0.3	<0.5	-	NP	2.35	0.00	99.67	97.32
04/23/98	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	6.90	0.00	99.67	92.77
07/20/98	<50	<0.3	1.1	<0.3	1.4	<5.0	NP	5.45	0.00	99.67	94.22
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	4.95	0.00	99.67	94.72
01/21/99	<50	0.35	0.62	<0.3	<0.5	<5.0	NP	3.90	0.00	99.67	95.77
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	2.35	0.00	99.67	97.32
07/26/99	1,000	<0.3	<0.3	<0.3	<0.5	*2,300 / 3,900	NP	3.93	0.00	99.67	95.74
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	6.15	0.00	99.67	93.52
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*42 / 41	NP	5.84	0.00	99.67	93.83
04/05/00	4,600	338	2.8	1.2	55.2	*282 / 230	NP	3.89	0.00	99.67	95.78
07/19/00	60	1.0	2.0	<0.3	<0.6	*87 / 76	NP	3.07	0.00	99.67	96.60
10/18/00	-	-	-	-	-	-	-	-	-	99.67	-
01/17/01	103	<0.18	2.0	<0.18	3.0	*78 / 106	NP	3.87	0.00	99.67	95.80
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.86	0.00	99.67	95.81
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	5.40	0.00	99.67	94.27
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.86	0.00	99.67	95.81
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.86	0.00	99.67	95.81
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	3.86	0.00	99.67	95.81
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	5.40	0.00	99.67	94.27
11/14/02	140	3.2	<0.18	5.2	<0.4	111	NP	5.42	0.00	99.67	94.25
01/29/03	694 J	<0.04	<0.02	<0.02	<0.06	630	NP	3.88	0.00	99.67	95.79
04/23/03	1,550	<0.04	<0.02	<0.02	<0.06	578	NP	3.86	0.00	99.67	95.81
07/10/03	1,670	<0.22	<0.32	<0.31	<0.4	509	NP	5.31	0.00	99.67	94.36
10/20/03	1,320	<0.04	<0.02	<0.02	<0.06	*656 / 662	NP	5.30	0.00	99.67	94.37
01/14/04	272	<0.04	<0.02	<0.02	<0.06	*304 / 180	NP	3.82	0.00	99.67	95.85
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.18	0.00	99.67	94.49
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	6.42	0.00	99.67	93.25
10/20/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.62	0.00	99.67	94.05
01/19/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.40	0.00	99.67	94.27
04/20/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.41	0.00	99.67	94.26
07/20/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	4.07	0.00	99.67	95.60
10/19/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	3.86	0.00	99.67	95.81
01/24/06	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.20	0.00	99.67	94.47
04/19/06	78	<0.32	<0.10	<0.24	<0.30	201	NP	3.87	0.00	99.67	95.80
07/19/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.54	0.00	99.67	93.13
09/15/06	-	-	-	-	-	-	-	-	-	-	-
10/18/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.40	0.00	99.67	94.27
01/17/07	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.40	0.00	33.14	27.74
04/18/07	2,110	29	357	37	914	<0.63	NP	5.40	0.00	33.14	27.74
07/18/07	65	<0.18	<0.24	<0.21	<0.45	<0.19	NP	7.38	0.00	33.14	25.76
10/17/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	3.86	0.00	33.14	29.28
01/16/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.39	0.00	33.14	27.75
04/22/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.42	0.00	33.14	27.72
07/16/08	<6.6	<0.18	3.0 J	<0.21	2.7 J	<0.19	NP	3.84	0.00	33.14	29.30
10/15/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.40	0.00	33.14	27.74
01/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.42	0.00	33.14	27.72

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GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
04/15/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.42	0.00	33.14	27.72
10/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.60	0.00	33.14	27.54
<b>MONITORING WELL #MW-7</b>											
	Screen Interval = 4 to 14 feet						Casing Diameter = 4 inches				
01/09/92	-	-	-	-	-	-	NP	6.30	0.00	99.02	92.72
04/13/92	-	-	-	-	-	-	NP	6.68	0.00	99.02	92.34
10/05/92	-	-	-	-	-	-	NP	9.60	0.00	99.02	89.42
01/06/93	-	-	-	-	-	-	NP	13.90	0.00	99.02	85.12
04/26/93	-	-	-	-	-	-	NP	5.55	0.00	99.02	93.47
01/04/94	-	-	-	-	-	-	NP	7.58	0.00	99.02	91.44
04/05/94	-	-	-	-	-	-	NP	6.66	0.00	99.02	92.36
10/09/95	27,000	2,400	140	1,700	2,700	-	-	-	-	99.02	-
01/08/96	13,000	800	42	540	860	-	NP	6.94	0.00	99.02	92.08
04/08/94	9,100	840	31	690	1,200	-	NP	5.48	0.00	99.02	93.54
07/22/96	11,000	1,700	22	660	700	840	NP	6.60	0.00	99.02	92.42
10/16/96	180	<0.3	<0.3	<0.3	<0.5	270	NP	6.42	0.00	99.02	92.60
01/22/97	130	<0.3	<0.3	<0.3	<0.5	470	NP	5.70	0.00	99.02	93.32
04/21/97	10,000	1,400	27	820	490	1,100	NP	5.30	0.00	99.02	93.72
07/14/97	8,200	660	15	230	270	560	NP	7.90	0.00	99.02	91.12
10/07/97	7,700	480	15	8.4	350	-	NP	7.70	0.00	99.02	91.32
01/19/98	1,400	20	0.74	0.46	4.4	-	NP	6.05	0.00	99.02	92.97
04/23/98	590	<0.3	<0.3	<0.3	<0.5	1,700	NP	7.60	0.00	99.02	91.42
07/20/98	4,900	570	150	300	500	1,500	NP	5.30	0.00	99.02	93.72
10/14/98	1,100	1.0	<0.3	<0.3	5.3	2,000	NP	8.60	0.00	99.02	90.42
01/21/99	570	0.32	<0.3	<0.3	<0.5	* 1,500 / 1,700	NP	6.70	0.00	99.02	92.32
04/15/99	770	<0.3	<0.3	<0.3	<0.5	* 1,400 / 1,200	NP	6.07	0.00	99.02	92.95
07/26/99	500	<0.3	<0.3	<0.3	<0.5	* 710 / 950	NP	7.86	0.00	99.02	91.16
10/13/99	<50	<0.3	0.44	<0.3	0.62	<5.0	NP	6.93	0.00	99.02	92.09
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	* 5.0 / <5.0	NP	6.44	0.00	99.02	92.58
04/05/00	5,670	415	19	1.7	60.1	* 329 / 194	NP	7.86	0.00	99.02	91.16
07/19/00	1,350	14	<3.0	<3.0	10	* 237 / 120	NP	7.10	0.00	99.02	91.92
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	* 63 / 41.1	NP	5.28	0.00	99.02	93.74
01/17/01	<50	<0.18	<0.14	<0.18	3.0	* 57 / 81	NP	5.27	0.00	99.02	93.75
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	66	NP	7.86	0.00	99.02	91.16
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	* 9.0 / 3.5	NP	6.30	0.00	99.02	92.72
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	* 9.4 / 7.9	NP	8.23	0.00	99.02	90.79
01/30/02	2,590	40	9.0	8.0	6.0	* 45 / 22	NP	5.14	0.00	99.02	93.88
04/17/02	51	<0.18	<0.14	<0.18	<0.26	* 58 / 45	NP	5.53	0.00	99.02	93.49
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	* 39 / 33	NP	5.93	0.00	99.02	93.09
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	6.8	NP	5.92	0.00	99.02	93.10
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	5.51	0.00	99.02	93.51
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	5.14	0.00	99.02	93.88
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.03	0.00	99.02	93.99
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	5.01	0.00	99.02	94.01
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	4.38	0.00	99.02	94.64
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	4.86	0.00	99.02	94.16
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	6.82	0.00	99.02	92.20
10/20/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.71	0.00	99.02	93.31
01/19/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	4.77	0.00	99.02	94.25
04/20/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	5.54	0.00	99.02	93.48



**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
07/20/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.80	0.00	99.02	92.22
10/19/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.89	0.00	99.02	93.13
01/24/06	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	4.89	0.00	99.02	94.13
04/19/06	<5.6	<0.32	<0.10	<0.24	<0.30	2.9	NP	5.13	0.00	99.02	93.89
07/19/06	3,430	58	28 J	<2.4	447	528	NP	6.31	0.00	99.02	92.71
09/15/06	<5.6	<0.32	<0.10	<0.24	<0.30	16	NP	6.72	0.00	99.02	92.30
10/18/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	5.13	0.00	99.02	93.89
01/17/07	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	6.62	0.00	31.61	24.99
04/18/07	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	5.86	0.00	31.61	25.75
07/18/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	6.82	0.00	31.61	24.79
10/17/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.87	0.00	31.61	25.74
01/06/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.79	0.00	31.61	26.82
04/22/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.84	0.00	31.61	25.77
07/16/08	<6.6	<0.18	2.1 J	<0.21	5.6	<0.19	NP	5.86	0.00	31.61	25.75
10/15/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.80	0.00	31.61	26.81
01/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.80	0.00	31.61	26.81
04/15/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	4.80	0.00	31.61	26.81
10/21/09	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	5.70	0.00	31.61	25.91

**MONITORING WELL #RW-1**

Screen Interval = 5 to 20 feet

Casing Diameter = 4 inches

01/09/92	-	-	-	-	-	-	NP	14.00	0.00	-	-
04/13/92	-	-	-	-	-	-	NP	14.00	0.00	-	-
10/05/92	-	-	-	-	-	-	NP	15.05	0.00	-	-
01/06/93	-	-	-	-	-	-	NP	5.43	0.00	-	-
04/26/93	-	-	-	-	-	-	NP	13.20	0.00	-	-
01/04/94	-	-	-	-	-	-	NP	14.30	0.00	-	-
04/05/94	-	-	-	-	-	-	NP	14.13	0.00	-	-
01/08/96	-	-	-	-	-	-	NP	14.22	0.00	-	-
04/08/96	-	-	-	-	-	-	NP	14.33	0.00	-	-
07/22/96	8,100	530	84	120	860	-	NP	14.27	0.00	-	-
10/16/96	-	-	-	-	-	-	NP	13.10	0.00	-	-
01/22/97	-	-	-	-	-	-	NP	16.97	0.00	-	-
10/07/97	-	-	-	-	-	-	NP	14.20	0.00	-	-
01/15/98	-	-	-	-	-	-	NP	15.60	0.00	-	-
04/23/98	81,000	0.72	1.4	3.2	5.7	270,000	NP	14.20	0.00	-	-
07/20/98	-	-	-	-	-	-	NP	14.30	0.00	-	-
10/14/98	-	-	-	-	-	-	NP	11.20	0.00	-	-
01/21/99	-	-	-	-	-	-	-	-	-	-	-
04/15/99	-	-	-	-	-	-	NP	13.10	0.00	-	-
07/26/99	4,400	<3.0	<3.0	<3.0	<5.0	*6,800 / 9,000	NP	13.83	0.00	-	-
10/13/99	-	-	-	-	-	-	-	-	-	-	-
01/20/00	-	-	-	-	-	-	NP	13.22	0.00	-	-
04/05/00	-	-	-	-	-	-	-	-	-	-	-
07/19/00	-	-	-	-	-	-	NP	13.25	0.00	-	-
10/18/00	-	-	-	-	-	-	NP	11.14	0.00	-	-
01/17/01	-	-	-	-	-	-	NP	11.12	0.00	-	-
04/19/01	-	-	-	-	-	-	-	-	-	-	-
07/18/01	-	-	-	-	-	-	NP	11.20	0.00	-	-
10/10/01	-	-	-	-	-	-	NP	11.20	0.00	-	-
01/30/02	-	-	-	-	-	-	NP	12.30	0.00	-	-

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #049, 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)					
04/17/02	-	-	-	-	-	-	NP	14.30	0.00	-	-
07/31/02	-	-	-	-	-	-	NP	14.21	0.00	-	-
11/14/02	-	-	-	-	-	-	NP	14.13	0.00	-	-
01/29/03	-	-	-	-	-	-	NP	13.12	0.00	-	-
04/23/03	-	-	-	-	-	-	-	No Access	-	-	-
07/10/03	-	-	-	-	-	-	-	No Access	-	-	-
10/20/03	-	-	-	-	-	-	-	No Access	-	-	-
WELL ABANDONED 01/2004											
<b>MONITORING WELL #RW-1R</b>											
Screen Interval = 5 to 20 feet											
02/03/04	-	-	-	-	-	-	-	-	-	-	-
04/08/04	6,740	42	32 J	<3.1	1,160	239	NP	4.76	0.00	-	-
07/21/04	118	<0.22	<0.32	<0.31	<0.4	107	NP	6.85	0.00	-	-
10/20/04	29,900	3,850	4,010	381	1,920	103	NP	4.28	0.00	-	-
01/19/05	13,400	272	243	24 J	2,230	2,110	NP	4.54	0.00	-	-
04/20/05	1,220	<0.22	<0.32	<0.31	<0.4	1,580	NP	4.95	0.00	-	-
07/07/05	6,490	410	74	84	620	2,560	-	-	-	-	-
07/20/05	4,900	133	52	<2.4	750	465	NP	6.32	0.00	-	-
10/19/05	572	<0.32	<0.10	<0.24	<0.30	417	NP	5.68	0.00	-	-
01/24/06	14,500	192	1,150	342	2,980	432	NP	4.78	0.00	-	-
04/19/06	7,430	94	411	<2.4	1,820	571	NP	4.94	0.00	-	-
07/19/06	5,020	55	17 J	<2.4	457	636	NP	7.10	0.00	-	-
09/15/06	-	-	-	-	-	-	-	-	-	-	-
10/18/06	41,500	63	4,710	1,510	6,390	343	NP	6.06	0.00	-	-
01/17/07	164,000	249	25,300	6,040	35,200	217	NP	6.83	0.00	30.59	23.76
04/18/07	13,000	<16	2,230	121 J	5,070	92	NP	7.22	0.00	30.59	23.37
07/18/07	3,930	90	64	291	437	117	NP	5.76	0.00	30.59	24.83
10/17/07	993	<0.18	22	4.7 J	85	108	NP	4.93	0.00	30.59	25.66
01/16/08	1,990	14	5.6	33	99	108	NP	4.56	0.00	30.59	26.03
04/22/08	22,400	330	2,350	517	3,250	15	NP	7.23	0.00	30.59	23.36
07/16/08	5,140	35	315	94	761	3.0	NP	5.65	0.00	30.59	24.94
10/15/08	2,430	71	3.5 J	<0.21	35	179	NP	4.55	0.00	30.59	26.04
01/21/09	75	<0.18	<0.24	<0.21	<0.45	128	NP	4.57	0.00	30.59	26.02
04/15/09	2,740	33	395	89	514	61	NP	4.56	0.00	30.59	26.03
10/21/09	16,400	124	920	358	2,250	5.1	NP	4.30	0.00	30.59	26.29

**NOTE:** \* MTBE 8020 / 8260  
 ND = Nondetectable  
 NP = No free hydrocarbon product  
 " - " = Not analyzed / Not available

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020.  
 Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline  
 Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020 or 8260  
 On 7/21/04, 4/08/04, 7/10/03 & 11/14/02, BTEX and MTBE done by 8260B

**TABLE 2  
ADDITIONAL GROUNDWATER DATA  
THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (mg/L)	Methanol (mg/L)
<b>MONITORING WELL # MW-1</b>						
11/14/02	<0.2	<0.12	<0.16	<10	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-	-
10/20/03	-	-	-	-	-	-
01/14/04	-	-	-	-	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	<0.28	12	<20	<20
01/24/06	<0.29	<0.17	<0.28	<10	<20	<20
04/19/06	<0.29	<0.17	<0.28	<10	<20	<20
07/19/06	<2.9	<1.7	<2.8	<100	-	-
09/15/06	<0.29	<0.17	<0.28	<10	-	-
10/18/06	<0.29	<0.17	<0.28	<10	-	-
01/17/07	<0.29	<0.17	<0.28	<10	-	-
04/18/07	<0.29	<0.17	<0.28	<10	-	-
07/18/07	<0.20	<0.23	<0.19	<10	-	-
10/17/07	<0.20	<0.23	<0.19	<10	-	-
01/16/08	<0.20	<0.23	<0.19	<10	-	-
04/22/08	<0.20	<0.23	<0.19	<10	-	-
07/16/08	<0.20	<0.23	<0.19	<5.2	-	-
10/15/08	<0.20	<0.23	<0.19	<5.2	-	-
01/21/09	<0.20	<0.23	<0.19	<5.2	-	-
04/15/09	<0.20	<0.23	<0.19	<5.2	-	-
10/21/09	<0.20	<0.23	<0.19	<5.2	<0.1	-
<b>MONITORING WELL #MW-2</b>						
11/14/02	<2.0	<1.2	111	341	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<2.9	<1.7	59	449	-	-
10/20/03	-	-	-	-	-	-
WELL ABANDONED 01/2004						
<b>MONITORING WELL #MW-2R</b>						
02/03/04	<0.29	<0.17	76	1,610	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/07/05	<0.29	<0.17	37	1,130	-	-
07/20/05	<0.29	<0.17	95	151	<20	<20
10/19/05	<0.29	<0.17	13	33	<20	<20
01/24/06	<0.29	<0.17	<0.28	42	<20	<20
04/19/06	<5.8	<3.4	<5.8	<200	<20	<20
07/19/06	<2.9	<1.7	68	113	-	-
09/15/06	-	-	-	-	-	-
10/18/06	<2.9	<1.7	<2.8	174.0	-	-
01/17/07	<58	<34	<52	<2000	-	-
04/18/07	<0.29	<0.17	5.2	122.0	-	-
07/18/07	<0.20	<0.23	<0.19	39	-	-
10/17/07	<0.20	<0.23	11	119	-	-
01/16/08	<0.20	<0.23	2.9	<10	-	-
04/22/08	<20	<23	<19	<1,000	-	-
07/16/08	<0.20	<0.23	<0.19	9.5 J	-	-
10/15/08	<0.20	<0.23	25	151	-	-
01/21/09	<0.20	<0.23	1.6	<5.2	-	-

**TABLE 2  
ADDITIONAL GROUNDWATER DATA  
THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (mg/L)	Methanol (mg/L)
04/15/09	<2.0	<2.3	<1.9	<52.0	-	-
10/21/09	<2.0	<2.3	<1.9	<52.0	9.66	-
<b>MONITORING WELL # MW-3</b>						
11/14/02	<0.2	<0.12	<0.16	<10	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-	-
10/20/03	-	-	-	-	-	-
01/14/04	-	-	-	-	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	<0.28	<10	<20	<20
01/24/06	<0.29	<0.17	<0.28	<10	<20	<20
04/19/06	<0.29	<0.17	<0.28	<10	<20	<20
07/19/06	<2.9	<1.7	173	128	-	-
09/15/06	<0.29	<0.17	38	<10	-	-
10/18/06	<0.29	<0.17	2.8	<10	-	-
01/17/07	<0.29	<0.17	<0.28	<10	-	-
04/18/07	<0.29	<0.17	<0.28	18	-	-
07/18/07	<0.20	<0.23	<0.19	11	-	-
10/17/07	<0.20	<0.23	<0.19	<10	-	-
01/16/08	<0.20	<0.23	<0.19	<10	-	-
04/22/08	<0.20	<0.23	<0.19	<10	-	-
07/16/08	<0.20	<0.23	<0.19	10	-	-
10/15/08	<0.20	<0.23	<0.19	<5.2	-	-
01/21/09	<0.20	<0.23	<0.19	<5.2	-	-
04/15/09	<0.20	<0.23	<0.19	<5.2	-	-
10/21/09	<0.20	<0.23	<0.19	<5.2	<0.1	-
<b>MONITORING WELL # MW-4</b>						
11/14/02	<2.0	<1.2	106	281	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<2.9	<1.7	35	<100	-	-
10/20/03	-	-	-	-	-	-
WELL ABANDONED 01/2004						
<b>MONITORING WELL # MW-4R</b>						
02/03/04	<0.29	<0.17	209	1,350	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/07/05	<0.29	<0.17	57	167	-	-
07/20/05	<0.29	<0.17	<0.28	369	<20	<20
10/19/05	<0.29	<0.17	39	335	<20	<20
01/24/06	<0.29	<0.17	<0.28	<10	<20	<20
04/19/06	<2.9	<1.7	36	231	<20	<20
07/19/06	<2.9	<1.7	<2.8	<100	-	-
09/15/06	-	-	-	-	-	-
10/18/06	<2.9	<1.7	<2.8	<1000	-	-
01/17/07	<58	<34	<52	<2000	-	-
04/18/07	<14.5	<8.5	<14	<500	-	-
07/18/07	<0.20	<0.23	<0.19	20	-	-
10/17/07	<0.20	<0.23	3.9	89	-	-
01/16/08	<0.20	<0.23	<0.19	25	-	-
04/22/08	<2.0	<2.3	<1.9	<100	-	-
07/16/08	<0.20	<0.23	<0.19	18	-	-
10/15/08	<0.20	<0.23	<0.19	23	-	-

**TABLE 2  
ADDITIONAL GROUNDWATER DATA  
THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (mg/L)	Methanol (mg/L)
01/21/09	<0.20	<0.23	2.6	51	-	-
04/15/09	<20	<23	<19	<520	-	-
10/21/09	<2.0	<2.3	<1.9	<52.0	25.4	-
<b>MONITORING WELL # MW-5</b>						
11/14/02	<0.2	<0.12	<0.16	<10	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-	-
10/20/03	-	-	-	-	-	-
01/14/04	-	-	-	-	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	1.4	<10	<20	<20
01/24/06	<0.29	<0.17	1.2	19	<20	<20
04/19/06	<0.29	<0.17	<0.28	<10	<20	<20
07/19/06	<0.29	<0.17	<0.28	<10	-	-
09/15/06	<0.29	<0.17	<0.28	<10	-	-
10/18/06	<0.29	<0.17	<0.28	<10	-	-
01/17/07	<0.29	<0.17	<0.28	<10	-	-
04/18/07	<0.29	<0.17	<0.28	<10	-	-
07/18/07	<0.20	<0.23	<0.19	<10	-	-
10/17/07	<0.20	<0.23	<0.19	<10	-	-
01/16/08	<0.20	<0.23	<0.19	<10	-	-
04/22/08	<0.20	<0.23	<0.19	<10	-	-
07/16/08	<0.20	<0.23	<0.19	<5.2	-	-
10/15/08	<0.20	<0.23	<0.19	<5.2	-	-
01/21/09	<0.20	<0.23	<0.19	<5.2	-	-
04/15/09	<0.20	<0.23	<0.19	<5.2	-	-
10/21/09	<0.20	<0.23	<0.19	<5.2	<0.1	-
<b>MONITORING WELL # MW-6</b>						
11/14/02	<0.2	<0.12	<0.16	<10	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<0.29	<0.17	2.1	38	-	-
10/20/03	-	-	-	-	-	-
01/14/04	-	-	-	-	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	<0.28	<10	<20	<20
01/24/06	<0.29	<0.17	<0.28	<10	<20	<20
04/19/06	<0.29	<0.17	<0.28	13	<20	<20
07/19/06	<0.29	<0.17	<0.28	<10	-	-
09/15/06	-	-	-	-	-	-
10/18/06	<0.29	<0.17	<0.28	<10	-	-
01/17/07	<0.29	<0.17	<0.28	<10	-	-
04/18/07	<0.29	<0.17	<0.28	<10	-	-
07/18/07	<0.20	<0.23	<0.19	<10	-	-
10/17/07	<0.20	<0.23	<0.19	<10	-	-
01/16/08	<0.20	<0.23	<0.19	<10	-	-
04/22/08	<0.20	<0.23	<0.19	<10	-	-
07/16/08	<0.20	<0.23	<0.19	<5.2	-	-
10/15/08	<0.20	<0.23	<0.19	<5.2	-	-
01/21/09	<0.20	<0.23	<0.19	<5.2	-	-

**TABLE 2  
ADDITIONAL GROUNDWATER DATA  
THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (mg/L)	Methanol (mg/L)
04/15/09	<0.20	<0.23	<0.19	<5.2	-	-
10/21/09	<0.20	<0.23	<0.19	<5.2	<0.1	-
<b>MONITORING WELL # MW-7</b>						
11/14/02	<0.2	<0.12	<0.16	<10	-	-
01/29/03	-	-	-	-	-	-
04/23/03	-	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-	-
10/20/03	-	-	-	-	-	-
01/14/04	-	-	-	-	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	<0.28	<10	<20	<20
01/24/06	<0.29	<0.17	<0.28	<10	<20	<20
04/19/06	<0.29	<0.17	<0.28	<10	<20	<20
07/19/06	<2.9	<1.7	25	216	-	-
09/15/06	<0.29	<0.17	<0.28	<10	-	-
10/18/06	<0.29	<0.17	<0.28	<10	-	-
01/17/07	<0.29	<0.17	<0.28	<10	-	-
04/18/07	<0.29	<0.17	<0.28	<10	-	-
07/18/07	<0.20	<0.23	<0.19	<10	-	-
10/17/07	<0.20	<0.23	<0.19	<10	-	-
01/06/08	<0.20	<0.23	<0.19	<10	-	-
04/22/08	<0.20	<0.23	<0.19	<10	-	-
07/16/08	<0.20	<0.23	<0.19	<5.2	-	-
10/15/08	<0.20	<0.23	<0.19	<5.2	-	-
01/21/09	<0.20	<0.23	<0.19	<5.2	-	-
04/15/09	<0.20	<0.23	<0.19	<5.2	-	-
10/21/09	<0.20	<0.23	<0.19	<5.2	<0.1	-
<b>MONITORING WELL # RW-1R</b>						
02/03/04	<0.29	<0.17	53	1,370	-	-
04/08/04	-	-	-	-	-	-
07/21/04	-	-	-	-	-	-
10/20/04	-	-	-	-	-	-
01/19/05	-	-	-	-	-	-
04/20/05	-	-	-	-	-	-
07/07/05	<0.29	<0.17	71	1,740	-	-
07/20/05	<0.29	<0.17	<0.28	<10	<20	<20
10/19/05	<0.29	<0.17	9.6	65	<20	<20
01/24/06	<2.9	<1.7	<2.8	156	<20	<20
04/19/06	<2.9	<1.7	11	206	<20	<20
07/19/06	<2.9	<1.7	<2.8	217	-	-
09/15/06	-	-	-	-	-	-
10/18/06	<2.9	<1.7	<2.8	209	-	-
01/17/07	<58	<34	<52	<2000	-	-
04/18/07	<14.5	<8.5	<14	<500	-	-
07/18/07	<2.0	<2.3	<1.9	<100	-	-
10/17/07	<0.20	<0.23	<0.19	81	-	-
01/16/08	<0.20	<0.23	<0.19	31	-	-
04/22/08	<2.0	<2.3	<1.9	<100	-	-
07/16/08	<0.20	<0.23	<0.19	<5.2	-	-
10/15/08	<0.20	<0.23	<0.19	31	-	-
01/21/09	<0.20	<0.23	1.6	14	-	-
04/15/09	<2.0	<2.3	<1.9	<52.0	-	-
10/21/09	<1.0	<1.15	<0.95	<26.0	10.6	-
<b>NOTE: DIPE, ETBE, TAME, TBA analyzed by EPA Method 8260B</b>						

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)					
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE
4/8/1991	1,310	0	-	-	<0.3	<0.3	<0.3	<0.9	-	910	2000	160	2000	-
4/15/1991	1,434	124	18	-	<0.3	<0.3	<0.3	<0.3	-	2800	4600	310	5000	-
4/22/1991	1,510	200	11	-	<15	<15	<15	<45	-	3100	3300	<15	2800	-
4/29/1991	1,660	350	21	-	<0.3	<0.3	<0.3	<0.9	-	3600	4500	300	5000	-
5/6/1991	1,740	430	11	-	<0.3	<0.3	<0.3	<0.9	-	3600	3500	300	3800	-
5/13/1991	1,880	570	20	-	<0.3	<0.3	<0.3	<0.9	-	3300	3200	230	3900	-
5/20/1991	2,010	700	19	-	<0.3	<0.3	<0.3	<0.9	-	3300	3400	260	5100	-
5/28/1991	2,050	740	5	-	<0.3	<0.3	<0.3	<0.9	-	2900	3000	230	4200	-
6/3/1991	2,110	800	10	-	<0.3	<0.3	<0.3	<0.9	-	2500	2100	110	2800	-
6/10/1991	2,160	850	7	-	<0.3	<0.3	<0.3	<0.9	-	1800	1700	120	2100	-
6/17/1991	2,219	909	8	-	<0.3	<0.3	<0.3	<0.9	-	2100	1900	170	2700	-
6/24/1991	2,263	953	6	-	<0.3	<0.3	<0.3	<0.9	-	2100	1800	150	2700	-
07/01/91	2,313	1,003	7	-	<0.5	<0.5	<1	<1	-	2,700	2,000	150	2,900	-
07/08/91	2,700	1,390	55	-	<0.5	<0.5	<1	<1	-	4,000	2,500	130	4,400	-
07/15/91	2,872	1,562	25	-	<0.5	<0.5	<1	<1	-	3,100	1,900	140	3,200	-
07/22/91	3,144	1,834	39	-	<0.5	<0.5	<1	<1	-	3,400	2,100	110	2,800	-
07/29/91	3,220	1,910	11	-	<0.5	<0.5	<1	<1	-	5,100	2,200	180	2,700	-
08/05/91	3,348	2,038	18	-	<0.5	<0.5	<1	<1	-	5,100	3,900	400	4,200	-
08/12/91	3,472	2,162	18	-	<0.5	<0.5	<1	<1	-	11,000	6,200	440	8,400	-
08/19/91	3,548	2,238	11	-	<0.5	<0.5	<1	<1	-	4,500	2,400	130	2,600	-
08/26/91	3,655	2,345	15	-	<0.5	<0.5	<1	<1	-	4,400	2,500	260	3,600	-
09/09/91	3,822	2,512	12	-	<0.5	<0.5	<1	<1	-	5,200	3,000	390	3,700	-
09/16/91	3,884	2,574	9	-	<0.5	<0.5	<1	<1	-	4,100	2,000	460	4,900	-
09/23/91	4,013	2,703	18	-	<0.5	<0.5	<1	<1	-	4,600	1,600	710	6,400	-
09/30/91	4,092	2,782	11	-	<0.5	<0.5	<1	<1	-	5,700	2,000	380	6,200	-
10/07/91	4,131	2,821	6	System shut down					-					-
10/14/91	4,195	2,885	9	-	<0.5	<0.5	<1	<1	-	4,400	2,000	370	8,100	-
10/21/91	4,406	3,096	30	-	<0.5	<0.5	<1	<1	-	2,300	1,100	190	4,200	-
10/28/91	4,474	3,164	10	-	<0.5	<0.5	<1	<1	-	6,400	4,100	620	6,100	-
11/03/91	4,613	3,303	23	-	<0.5	<0.5	<1	<1	-	6,100	2,800	200	5,600	-
11/11/91	4,700	3,390	11	-	<0.5	<0.5	<1	<1	-	6,500	2,300	<30	4,900	-
11/18/91	4,887	3,577	27	-	<0.5	<0.5	<1	<1	-	5,600	2,500	300	4,600	-
11/25/91	5,042	3,732	22	-	<0.5	<0.5	<1	<1	-	5,400	2,800	230	5,700	-
12/03/91	5,263	3,953	28	-	<0.5	<0.5	<1	<1	-	7,200	3,300	490	5,500	-
12/09/91	5,362	4,052	17	-	<0.5	<0.5	<1	<1	-	4,400	1,700	140	3,900	-
12/16/91	5,486	4,176	18	-	<0.5	<0.5	<0.5	<0.5	-	4,700	2,300	310	4,600	-
12/23/91	5,516	4,206	4	-	<0.5	<0.5	<0.5	<0.5	-	4,000	2,200	290	5,900	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)					
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE
12/30/91	5,575	4,265	8	-	<0.5	<0.5	<0.5	<0.5	-	5,200	2,500	350	5,800	-
01/15/92	5,720	4,410	9	-	<0.5	<0.5	<0.5	<0.5	-	3,400	1,900	300	6,300	-
02/10/92	6,264	4,954	21	-	<0.5	<0.5	<0.5	<0.5	-	5,800	2,800	320	7,200	-
03/09/92	8,520	7,210	81	<200	<0.5	1.6	<0.5	<0.5	47,000	7,100	4,800	630	10,300	-
04/13/92	22,888	21,578	411	<200	<0.5	<0.5	<0.5	<0.5	29,000	4,500	2,200	160	4,800	-
05/11/92	24,920	23,610	73	<200	<0.5	<0.5	<0.5	<0.5	22,000	4,300	1,500	130	3,800	-
06/01/92	28,330	27,020	162	<200	<0.5	<0.5	<0.5	<0.5	18,000	3,400	1,500	660	4,200	-
07/13/92	72,675	27,020	-	-	<0.5	<0.5	<0.5	<0.5	-	1,800	750	150	5,600	-
07/13/92	72,675	27,020	-	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons.					-	-	-	-	-	-
08/17/92	75,046	29,391	68	-	<0.5	<0.5	<0.5	<0.5	-	1,100	350	200	1,100	-
09/14/92	75,582	29,927	19	-	<0.5	<0.5	<0.5	<1	-	2,100	520	<25	3,500	-
10/05/92	75,680	30,025	5	<200	<0.5	<0.5	<0.5	<1	19,000	1,700	270	<25	4,000	-
11/09/92	77,280	31,625	46	-	<0.5	<0.5	<0.5	<0.5	-	4,000	1,400	120	5,900	-
12/14/92	79,420	33,765	61	-	<0.5	<0.5	<0.5	<1	-	7,300	4,900	1,800	16,000	-
01/04/93	84,720	39,065	252	-	<0.5	<0.5	<0.5	<1	-	5,400	2,100	450	7,800	-
02/15/93	102,689	57,034	428	<200	<0.5	<0.5	<0.5	<1	41,000	6,600	3,200	260	9,600	-
02/22/93	146,430	57,034	-	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons.					-	-	-	-	-	
03/08/93	147,500	58,104	76	-	<0.5	<0.5	<0.5	<1	-	7,400	3,400	56	11,000	-
04/26/93	151,200	61,804	76	<100	<0.5	<0.5	<0.5	<1	36,000	4,300	2,200	420	8,300	-
04/26/93	151,200	61,804	-	Shut down system for repair					-	-	-	-	-	-
07/21/93	151,240	61,844	0	Restart the system					-	-	-	-	-	-
08/11/93	151,650	62,254	20	-	<0.5	<0.5	<0.5	<1	-	6,500	2,300	390	6,200	-
09/16/93	154,005	64,609	65	<60	<0.3	<0.3	<0.3	<0.6	43,000	2,300	320	<4.4	2,900	-
10/04/93	154,896	65,500	50	<60	<0.3	<0.3	<0.3	<0.6	33,000	2,900	470	6.9	3,500	-
11/05/93	157,431	68,035	79	<50	<0.3	<0.3	<0.3	<0.5	15,000	1,100	27	<0.3	920	-
12/03/93	159,324	69,928	68	<50	<0.3	<0.3	<0.3	<0.5	16,000	1,100	88	<6.6	2,300	-
01/06/94	166,440	77,044	209	-	<0.3	<0.3	<0.3	<0.5	-	3,800	730	<13	1,200	-
02/03/94	170,720	81,324	153	-	<0.3	<0.3	<0.3	<0.5	-	3,600	610	<4.4	4,800	-
03/03/94	178,168	88,772	266	-	<0.3	<0.3	<0.3	<0.5	-	2,800	2,000	270	3,400	-
04/07/94	185,670	96,274	214	<50	<0.3	<0.3	<0.3	<0.5	26,000	2,200	550	<6.6	1,900	-
05/12/94	188,840	99,444	91	<50	<0.3	<0.3	<0.3	<0.5	4,600	100	10	8.4	280	-
06/16/94	194,680	105,284	167	<50	<0.3	<0.3	<0.3	<0.5	<50	<0.3	<0.3	<0.3	<0.5	-
07/11/94	199,135	109,739	178	<50	<0.3	<0.3	<0.3	<0.5	4,000	220	<2.6	<2.6	320	-
08/04/94	200,910	111,514	74	<50	<0.3	<0.3	<0.3	<0.5	7,800	480	6.2	<0.3	630	-
09/15/94	203,450	114,054	60	<50	<0.3	<0.3	<0.3	<0.5	3,200	150	2.4	2.6	170	-
10/10/94	205,210	115,814	70	<50	<0.3	<0.3	<0.5	<0.5	1,300	8.6	1.5	1.1	15	-



**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)					
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE
11/07/94	206,060	116,664	30	<50	<0.3	<0.3	<0.5	<0.5	170	1.5	<0.3	<0.5	0.5	-
12/05/94	207,093	117,697	37	<50	<0.3	<0.3	<0.5	<0.5	75	1.3	<0.3	<0.5	<0.5	-
01/09/95	207,293	117,897	6	<50	<0.3	<0.3	<0.5	<0.5	<50	<0.3	<0.3	<0.5	<0.5	-
02/01/95	207,650	118,254	16	<50	<0.3	<0.3	<0.5	<0.5	<50	<0.3	<0.3	<0.5	<0.5	-
02/06/95	207,810	118,414	32	<50	<0.3	<0.3	<0.5	<0.5	<50	2.7	<0.3	<0.5	<0.5	-
03/10/95	208,430	119,034	19	<100	<0.5	<0.5	<0.5	<1	<100	<0.5	<0.5	<0.5	<0.5	-
04/10/95	208,564	119,168	4	<100	<0.5	<0.5	<0.5	<1	3,300	180	7.6	2.1	150	-
05/08/95	208,608	119,212	2	<100	<0.5	<0.5	<0.5	<1	11,000	640	9.2	<5	1,100	-
06/05/95	208,926	119,530	11	<100	<0.5	<0.5	<0.5	<1	5,100	270	2.2	<0.5	49	-
07/10/95	214,182	124,786	150	<100	<0.5	<0.5	<0.5	<1	13,000	1,600	120	24	1,300	-
08/07/95	221,876	132,480	275	Shut down system for repair				-	-	-	-	-	-	-
08/28/95	221,997	132,601	6	Restart the system				-	-	-	-	-	-	-
09/06/95	222,003	132,607	1	<100	<0.5	<0.5	<0.5	<1	2,300	<0.5	<0.5	<0.5	<1	-
10/09/95	222,343	132,947	10	<100	<0.5	<0.5	<0.5	<1	2,000	5.6	0.77	0.66	3.8	-
11/06/95	222,704	133,308	13	<50	0.3	0.31	<0.3	0.68	3,000	27	1.7	3.7	48	-
12/11/95	223,792	134,396	31	<50	<0.3	<0.3	<0.3	<0.5	<50	<0.3	<0.3	<0.3	0.96	-
01/08/96	224,661	135,265	31	970	<0.3	<0.3	<0.3	0.67	1,800	39	<0.3	<0.3	<0.5	-
02/12/96	227,812	138,416	90	<50	10	0.37	<0.3	0.53	3,300	190	<7.5	<7.5	20	-
03/12/96	229,301	139,905	51	<50	<0.3	<0.3	<0.3	<0.5	2,700	250	2.3	<1.5	<2.5	-
04/08/96	242,320	152,924	482	<50	<0.3	<0.3	<0.3	<0.5	1,000	90	5	<0.3	67	-
05/06/96	247,840	158,444	197	100	<0.3	<0.3	<0.3	<0.5	15,000	2,200	600	32	2,400	-
06/03/96	248,423	159,027	21	Shut down system for carbon change				-	-	-	-	-	-	-
08/08/96	248,423	159,027	-	Start-up system				-	-	-	-	-	-	-
08/20/96	248,630	159,234	17	<50	<0.3	<0.3	<0.3	<0.5	2,100	24	<0.3	<0.3	49	-
09/23/96	259,030	169,634	306	<50	<0.3	<0.3	<0.3	<0.5	4,100	260	<3	<3	34	-
10/16/96	263,610	174,214	199	<50	<0.3	<0.3	<0.3	<0.5	2,700	220	3.8	<0.6	44	-
11/19/96	263,986	174,590	11	<50	<0.3	<0.3	<0.3	<0.5	1,200	<0.3	<0.3	<0.3	<0.5	-
12/16/96	264,210	174,814	8	<50	<0.3	<0.3	<0.3	1.5	29,000	410	2,300	120	1,100	-
01/22/97	266,220	176,824	54	<50	<0.3	<0.3	<0.3	<0.5	68,000	<0.3	<0.3	<0.3	<0.5	-
02/24/97	267,030	177,634	25	<50	<0.3	<0.3	<0.3	<0.5	51,000	3,500	3,200	390	2,200	-
03/17/97	267,230	177,834	10	<50	<0.3	<0.3	<0.3	<0.5	89,000	<6	11	<6	14	-
04/21/97	267,415	178,019	5	<50	<0.3	<0.3	<0.3	<0.5	61,000	730	18	130	360	-
05/22/97	276,535	187,139	294	<50	<0.3	<0.3	<0.3	<0.5	850	1.3	<0.3	0.4	4.6	-
06/23/97	281,214	191,818	146	-	-	-	-	-	-	-	-	-	-	-
07/14/97	284,210	194,814	143	<50	<0.3	<0.3	<0.3	<0.5	6,600	<0.3	0.59	<0.3	9	-
08/18/97	298,610	209,214	411	-	-	-	-	-	-	-	-	-	-	-
09/15/97	301,043	211,647	87	-	-	-	-	-	-	-	-	-	-	-

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 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)					
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE
10/07/97	333,480	244,084	1,474	<50	<0.3	<0.3	<0.3	<0.5	94,000	<0.3	<0.3	<0.3	<0.5	-
11/17/97	334,286	244,890	20	-	-	-	-	-	-	-	-	-	-	-
12/08/97	334,382	244,986	5	-	-	-	-	-	-	-	-	-	-	-
12/12/97	334,382	244,986	-	Shut down system due to stolen equipment					-	-	-	-	-	-
04/08/98	334,382	244,986	-	<50	<0.3	<0.3	<0.3	<0.5	3,100	12	1	<0.3	490	2,600
05/11/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-
06/22/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-
07/20/98	334,382	244,986	-	<50	<0.3	<0.3	<0.3	<0.5	52,000	8	0.52	0.83	1.5	-
08/03/98	346,521	257,125	867	Shut down system for carbon canisters replacement					-	-	-	-	-	-
09/17/98	354,985	265,589	188	-	-	-	-	-	-	-	-	-	-	-
10/14/98	358,015	268,619	112	<50	<0.3	<0.3	<0.3	1.6	3,100	45	13	3.5	350	-
11/05/98	359,600	270,204	72	System shut down due to vandalism and stolen equipment					-	-	-	-	-	
11/20/98	359,600	270,204	-	Restart	-	-	-	-	-	-	-	-	-	-
12/11/98	369,452	280,056	469	-	-	-	-	-	-	-	-	-	-	-
12/24/98	-	280,056	-	No reading, meter broken					-	-	-	-	-	-
01/15/99	0	280,056	-	Replaced Flowmeter started at 0					-	-	-	-	-	-
01/21/99	986	281,042	164	57	<0.3	<0.3	<0.3	0.76	380	6.2	1	<0.3	9.1	-
02/12/99	1,971	282,027	45	-	-	-	-	-	-	-	-	-	-	-
03/12/99	4,390	284,446	86	-	-	-	-	-	-	-	-	-	-	-
04/15/99	8,595	288,651	124	<50	<0.3	<0.3	<0.3	<0.5	410	1.6	0.78	<0.3	5	*580 / 330
05/04/99	9,410	289,466	43	-	-	-	-	-	-	-	-	-	-	-
05/18/99	9,410	289,466	-	Shut down system for pump controller repair by manufacturer					-	-	-	-	-	-
09/20/99	9,411	289,467	0	Restart the system					-	-	-	-	-	
09/24/99	9,412	289,468	0	-	-	-	-	-	-	-	-	-	-	-
10/13/99	9,510	289,566	5	<50	<0.3	<0.3	<0.3	<0.5	6,000	<0.3	<0.3	<0.3	<0.5	13,000
11/12/99	9,702	289,758	6	-	-	-	-	-	-	-	-	-	-	-
12/17/99	9,894	289,950	5	-	-	-	-	-	-	-	-	-	-	-
01/20/00	10,052	290,108	5	<50	<0.3	<0.3	<0.3	<0.5	<50	<0.3	<0.3	<0.3	<0.5	-
02/17/00	10,157	290,213	4	-	-	-	-	-	-	-	-	-	-	-
03/13/00	10,355	290,411	8	-	-	-	-	-	-	-	-	-	-	-
04/05/00	10,546	290,602	8	72.7	1.8	4.1	0.7	6.7	119,000	2,360	6,440	6,240	25,200	*30,800 / 21,800
05/19/00	11,072	291,128	12	Shut down system for carbon drum replacement					-	-	-	-	-	-
06/05/00	11,075	291,131	0	Restart the system					-	-	-	-	-	
06/14/00	11,132	291,188	6	<50	<0.3	<0.3	<0.3	<0.6	<1,000	<6	<6	<6	14	24,500
07/06/00	11,362	291,418	10	Shut down system for carbon replacement					-	-	-	-	-	
07/17/00	0	291,418	-	Restart the system after carbon change, repipe and flowmeter change (starting at 0.0)					-	-	-	-	-	

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 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)					
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE
07/24/00	411	291,829	59	<50	<0.3	<0.3	<0.3	<0.6	205	<0.3	1	<0.3	<0.6	*99 / 104
08/21/00	8,193	299,611	278	-	-	-	-	-	-	-	-	-	-	-
09/18/00	27,251	318,669	681	-	-	-	-	-	-	-	-	-	-	-
10/18/00	54,280	345,698	901	<50	<0.18	<0.14	<0.18	<0.26	357,000	2,380	2,960	1,290	6,850	9,630
10/30/00	64,610	358,028	861	-	-	-	-	-	-	-	-	-	-	-
11/27/00	79,870	371,288	545	-	-	-	-	-	-	-	-	-	-	-
12/22/00	99,240	390,658	775	-	-	-	-	-	-	-	-	-	-	-
01/17/01	101,250	392,668	77	<50	<0.18	<0.14	<0.18	<0.26	24,700	783	373	2	3,480	15,000
02/23/01	144,120	435,538	1,159	-	-	-	-	-	-	-	-	-	-	-
03/30/01	195,400	486,818	1,465	-	-	-	-	-	-	-	-	-	-	-
04/06/01	199,090	490,508	527	System shut down for carbon replacement; Replaced on 4/11/01, restart on 4/13/01.					-	-	-	-	-	-
04/20/01	207,050	498,468	569	88	<0.18	<0.14	<0.18	<0.26	36,500	855	716	659	1,570	11,400
04/27/01	210,640	502,058	513	System shut down for repair/replacement of compressor's pressure switch and exhaust valve					-	-	-	-	-	-
04/30/01	210,640	502,058	-	320	<0.18	<0.14	<0.18	<0.26	7,620	268	22	10	124	*13,600/9,130
05/11/01	210,640	502,058	-	Replaced pressure switch on 5/7/01, system still off for carbon replacement.					-	-	-	-	-	-
05/21/01	210,640	502,058	-	Restart the system					-	-	-	-	-	-
05/30/01	226,830	518,248	1,799	<50	<0.18	<0.14	<0.18	<0.26	96,600	4,980	1,660	2,770	11,300	*53,600/41,600
06/29/01	267,230	558,648	1,347	-	-	-	-	-	-	-	-	-	-	-
07/11/01	310,010	601,428	3,565	<50	<0.18	<0.14	<0.18	<0.26	162,000	<0.18	4,140	4,760	24,000	<0.24
08/17/01	441,270	732,688	3,548	-	-	-	-	-	-	-	-	-	-	-
09/28/01	498,310	789,728	1,358	-	-	-	-	-	-	-	-	-	-	-
10/03/01	503,930	795,348	1,124	<50	<0.18	<0.14	<0.18	<0.26	31,600	<1.8	150	294	5,280	<2.4
11/12/01	664,700	956,118	4,019	-	-	-	-	-	-	-	-	-	-	-
12/28/01	706,300	997,718	904	-	-	-	-	-	-	-	-	-	-	-
01/11/02	721,050	1,012,468	1,054	System shut down for carbon replacement					-	-	-	-	-	
01/21/02	721,050	1,012,468	-	Restart the system					-	-	-	-	-	
02/01/02	731,320	1,022,738	934	<100	<0.3	<0.3	<0.3	<0.6	1,172	1	1	1	6	<5
02/22/02	751,340	1,042,758	953	-	-	-	-	-	-	-	-	-	-	-
03/27/02	813,240	1,104,658	1,876	-	-	-	-	-	-	-	-	-	-	-
04/12/02	835,170	1,126,588	1,371	<50	<0.18	<0.14	<0.18	<0.26	12,100	5	1	<0.18	<0.26	18,400
04/26/02	918,670	1,210,088	5,964	System shut down					-	-	-	-	-	
05/10/02	918,680	1,210,098	1	Restart					-	-	-	-	-	
05/17/02	928,670	1,220,088	1,427	-	-	-	-	-	-	-	-	-	-	-
06/03/02	-	-	-	<50	<0.18	<0.14	<0.18	<0.26	Split-sample results during EBMUD inspection & sampling					
06/07/02	971,240	1,262,658	2,027	-	-	-	-	-	-	-	-	-	-	-

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
06/28/02	1,012,150	1,303,568	1,948	-	-	-	-	-	-	-	-	-	-	-	-
07/15/02	1,045,670	1,337,088	1,972	<50	<0.18	<0.14	<0.18	<0.26	10,600	<0.18	<0.14	<0.18	<0.26	10,000	-
07/31/02	1,052,380	1,343,798	419	System shut down for carbon replacement					-	-	-	-	-	-	-
08/16/02	1,052,390	1,343,808	1	Restart	-	-	-	-	-	-	-	-	-	-	-
08/30/02	1,057,310	1,348,728	351	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	1,061,730	1,353,148	210	<50	<0.1	<0.15	<0.06	-	Split-sample results during EBMUD inspection & sampling						
09/27/02	1,064,020	1,355,438	327	-	-	-	-	-	-	-	-	-	-	-	-
10/04/02	1,069,130	1,360,548	730	<50	<0.18	<0.14	<0.18	<0.26	4,500	<0.18	<0.14	<0.18	<0.26	2,570	-
10/25/02	1,082,500	1,373,918	637	-	-	-	-	-	-	-	-	-	-	-	-
11/29/02	1,108,680	1,400,098	748	-	-	-	-	-	-	-	-	-	-	-	-
12/27/02	1,123,890	1,415,308	543	-	-	-	-	-	-	-	-	-	-	-	-
01/03/03	1,128,910	1,420,328	717	System shut down for carbon replacement					-	-	-	-	-	-	
01/10/03	1,128,970	1,420,388	9	Restart	-	-	-	-	-	-	-	-	-	-	-
01/17/03	1,132,560	1,423,978	513	<50	<0.14	<0.07	<0.08	1.1	32,400	11	64	<0.8	6,050	706	-
01/31/03	1,143,290	1,434,708	766	<15	<0.04	0.58	<0.02	1.1	22,700	14	34	18	5,160	550	-
02/14/03	1,153,670	1,445,088	741	System shut down for carbon replacement					-	-	-	-	-	-	
04/04/03	1,153,670	1,445,088	-	System kept off and dismantled for upgrade					-	-	-	-	-	-	
06/18/04	0.0	1,445,088	-	Startup of upgraded system					-	-	-	-	-	-	
06/21/04	2,322.2	1,447,410	774	-	<0.22	<0.32	<0.31	<0.4	-	-	-	-	-	-	-
06/23/04	3,361.0	1,448,449	519	-	<0.14	<0.16	<0.18	<0.45	-	-	-	-	-	-	-
06/25/04	4,398.0	1,449,486	519	-	<0.14	<0.16	<0.18	<0.45	-	-	-	-	-	-	-
07/01/04	6,395.7	1,451,484	333	-	-	-	-	-	-	-	-	-	-	-	-
07/09/04	8,606.5	1,453,695	276	-	-	-	-	-	-	-	-	-	-	-	-
07/19/04	11,130.0	1,456,218	252	-	-	-	-	-	-	-	-	-	-	-	-
07/29/04	11,346.0	1,456,434	22	-	-	-	-	-	-	-	-	-	-	-	-
08/09/04	12,511.0	1,457,599	106	-	-	-	-	-	27,000	201	247	<0.18	2,060	11,300	-
08/30/04	19,294.0	1,464,382	323	-	-	-	-	-	-	-	-	-	-	-	-
09/03/04	20,211.0	1,465,299	229	-	<0.14	<0.16	<0.18	<0.45	18,900	280	290	27	3,600	9,810	-
09/21/04	24,766.0	1,469,854	253	-	-	-	-	-	-	-	-	-	-	-	-
10/07/04	28,244.9	1,473,333	217	-	<0.14	<0.16	<0.18	<0.45	24,100	221	151	74	3,100	11,800	-
10/18/04	28,288.1	1,473,376	4	-	<0.14	<0.16	<0.18	<0.45	Split-sample results during EBMUD inspection & sampling						
10/21/04	28,463.5	1,473,552	58	-	-	-	-	-	-	-	-	-	-	-	-
10/28/04	34,435.8	1,479,524	853	-	-	-	-	-	-	-	-	-	-	-	-
11/02/04	37,200.4	1,482,288	553	-	-	-	-	-	-	-	-	-	-	-	-
11/09/04	39,902.6	1,484,991	386	-	-	-	-	-	29,500	564	628	173	4,550	11,800	-
11/17/04	43,165.9	1,488,254	408	-	-	-	-	-	-	-	-	-	-	-	-
11/22/04	43,760.3	1,488,848	119	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
12/03/04	43,827.9	1,488,916	6	-	-	-	-	-	-	-	-	-	-	-	-
12/09/04	43,862.7	1,488,951	6	-	-	-	-	-	-	-	-	-	-	-	-
12/17/04	44,034.6	1,489,123	21	-	-	-	-	-	-	-	-	-	-	-	-
12/23/04	45,408.0	1,490,496	229	-	<0.14	<0.16	<0.18	1.2	23,200	473	256	488	2,100	6,080	-
12/29/04	47,405.4	1,492,493	333	-	-	-	-	-	-	-	-	-	-	-	-
01/07/05	54,048.5	1,499,137	738	-	-	-	-	-	-	-	-	-	-	-	-
01/12/05	56,143.5	1,501,232	419	EMC took over operation and maintenance of system					-	-	-	-	-	-	-
01/14/05	56,307.2	1,501,395	82	Carbon change					-	-	-	-	-	-	-
01/19/05	56,307.2	1,501,395	-	Restarted after carbon change					-	-	-	-	-	-	-
01/27/05	57,610.1	1,502,698	163	<15	<0.14	1.1	<0.18	<0.45	4,850	189	205	255	1,450	966	-
02/03/05	63,253.1	1,508,341	806	-	-	-	-	-	-	-	-	-	-	-	-
02/11/05	65,739.0	1,510,827	311	-	-	-	-	-	-	-	-	-	-	-	-
02/18/05	67,326.3	1,512,414	227	-	-	-	-	-	-	-	-	-	-	-	-
02/24/05	67,392.1	1,512,480	11	-	-	-	-	-	-	-	-	-	-	-	-
03/09/05	67,984.2	1,513,072	46	-	-	-	-	-	-	-	-	-	-	-	-
03/17/05	69,219.3	1,514,307	154	-	-	-	-	-	-	-	-	-	-	-	-
03/23/05	70,454.2	1,515,542	206	-	-	-	-	-	-	-	-	-	-	-	-
03/30/05	71,783.1	1,516,871	190	-	-	-	-	-	-	-	-	-	-	-	-
04/06/05	75,721.2	1,520,809	563	<15	<0.14	0.91	<0.18	<0.45	10,900	247	112	356	892	2,010	-
04/07/05	-	-	-	<15	<0.14	<0.16	<0.18	<0.45	Split-sample results during EBMUD inspection & sampling						-
04/14/05	79,730.2	1,524,818	501	System was turned off for QWS					-	-	-	-	-	-	-
04/21/05	79,885.1	1,524,973	22	Restarted system					-	-	-	-	-	-	-
04/27/05	80,674.2	1,525,762	132	-	-	-	-	-	-	-	-	-	-	-	-
05/12/05	83,901.3	1,528,989	215	-	-	-	-	-	-	-	-	-	-	-	-
05/20/05	84,601.7	1,529,690	88	-	-	-	-	-	-	-	-	-	-	-	-
05/27/05	86,432.1	1,531,520	261	-	-	-	-	-	-	-	-	-	-	-	-
06/02/05	87,654.3	1,532,742	204	-	-	-	-	-	-	-	-	-	-	-	-
06/09/05	87,981.1	1,533,069	47	-	-	-	-	-	-	-	-	-	-	-	-
06/16/05	88,340.0	1,533,428	51	-	-	-	-	-	-	-	-	-	-	-	-
06/16/05	0.0	1,533,428	-	Changed battery for flow meter (reset to 0.0 gallons)					-	-	-	-	-	-	-
06/23/05	2,914.2	1,536,342	416	-	-	-	-	-	-	-	-	-	-	-	-
06/28/05	4,751.3	1,538,179	367	-	-	-	-	-	-	-	-	-	-	-	-
07/07/05	7,125.7	1,540,554	264	<2.9	<0.17	<0.22	<0.14	<0.38	7,530	301	71 J	132	800	2,580	-
07/12/05	8,534.3	1,541,962	282	-	-	-	-	-	-	-	-	-	-	-	-
07/19/05	9,145.3	1,542,573	87	-	-	-	-	-	-	-	-	-	-	-	-
07/26/05	10,570.5	1,543,999	204	System was turned off for QWS and carbon change					-	-	-	-	-	-	-
08/03/05	10,572.1	1,544,000	0	Restarted system					-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
08/09/05	10,827.1	1,544,255	43	-	-	-	-	-	-	-	-	-	-	-	-
08/19/05	-	-	-	-	<0.05	<0.07	<0.08	<0.33	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
08/19/05	11,219.6	1,544,648	39	-	<0.10	<0.15	<0.06	<0.40	Split-sample results during EBMUD inspection & sampling						
08/23/05	11,311.2	1,544,739	23	-	-	-	-	-	-	-	-	-	-	-	-
09/07/05	11,713.1	1,545,141	27	-	-	-	-	-	-	-	-	-	-	-	-
09/13/05	11,816.3	1,545,244	17	-	-	-	-	-	-	-	-	-	-	-	-
09/20/05	11,930.2	1,545,358	16	-	-	-	-	-	-	-	-	-	-	-	-
09/26/05	12,241.6	1,545,670	52	-	-	-	-	-	-	-	-	-	-	-	-
10/04/05	12,314.2	1,545,742	9	<2.9	<0.17	<0.22	<0.14	<0.38	4,250	129	113	3.9 J	237	2,120	-
10/11/05	12,578.6	1,546,007	38	-	-	-	-	-	-	-	-	-	-	-	-
10/17/05	12,781.3	1,546,209	34	System was turned off for QWS					-	-	-	-	-	-	-
10/21/05	12,796.1	1,546,224	4	Restarted system					-	-	-	-	-	-	-
11/01/05	13,383.2	1,546,811	53	-	-	-	-	-	-	-	-	-	-	-	-
11/08/05	13,399.2	1,546,827	2	-	<0.10	<0.15	<0.06	<0.40	Split-sample results during EBMUD inspection & sampling						
11/08/05	-	-	-	-	-	-	-	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
11/16/05	13,807.4	1,547,235	51	-	-	-	-	-	-	-	-	-	-	-	-
11/23/05	0.0	1,547,235	-	Changed battery for flow meter (reset to 0.0 gallons)					-	-	-	-	-	-	-
11/29/05	717.2	1,547,953	120	-	-	-	-	-	-	-	-	-	-	-	-
12/07/05	1,038.1	1,548,274	40	-	-	-	-	-	-	-	-	-	-	-	-
12/14/05	1,669.4	1,548,905	90	-	-	-	-	-	-	-	-	-	-	-	-
12/20/05	1,874.3	1,549,110	34	-	-	-	-	-	-	-	-	-	-	-	-
12/28/05	2,022.1	1,549,258	18	-	-	-	-	-	-	-	-	-	-	-	-
01/04/06	4,413.3	1,551,649	342	-	-	-	-	-	-	-	-	-	-	-	-
01/10/06	5,614.3	1,552,850	200	<2.9	<0.32	<0.1	<0.24	<0.3	12,000	16	51	2.3 J	1,300	338	-
01/18/06	6,414.4	1,553,650	100	-	-	-	-	-	-	-	-	-	-	-	-
01/20/06	6,728.3	1,553,964	157	System was turned off for QWS and carbon change					-	-	-	-	-	-	
01/27/06	6,731.2	1,553,967	0	Restarted system					-	-	-	-	-	-	
01/31/06	6,842.3	1,554,078	28	-	-	-	-	-	-	-	-	-	-	-	-
02/01/06	-	-	-	-	<0.70	<0.67	<0.65	<2.0	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
02/01/06	6,903.0	1,554,138	61	-	<0.17	<0.22	<0.14	<0.38	Split-sample results during EBMUD inspection & sampling						
02/01/06	-	-	-	-	-	-	-	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
02/01/06	0.0	1,554,138	-	Changed battery for flow meter (reset to 0.0 gallons)					-	-	-	-	-	-	
02/07/06	308	1,554,447	51	-	-	-	-	-	-	-	-	-	-	-	-
02/21/06	978	1,555,116	48	-	-	-	-	-	-	-	-	-	-	-	-
02/24/06	1,268	1,555,406	97	-	-	-	-	-	-	-	-	-	-	-	-
02/24/06	10	1,555,406	-	Replaced flow meter with nonresettable analog type, start with 10					-	-	-	-	-	-	
02/28/06	978	1,556,374	242	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)							
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE		
03/07/06	3,254	1,558,650	325	-	-	-	-	-	-	-	-	-	-	-	-	
03/14/06	4,672	1,560,068	203	-	-	-	-	-	-	-	-	-	-	-	-	
03/21/06	6,793	1,562,189	303	-	-	-	-	-	-	-	-	-	-	-	-	
03/28/06	8,214	1,563,610	203	-	-	-	-	-	-	-	-	-	-	-	-	
04/04/06	12,513	1,567,909	614	<5.6	<0.32	<0.1	<0.24	<0.3	2,580	15	5.0	<0.24	193	341	-	
04/11/06	15,720	1,571,116	458	-	-	-	-	-	-	-	-	-	-	-	-	
04/18/06	21,010	1,576,406	756	System was turned off for QWS					-	-	-	-	-	-	-	-
04/21/06	21,030	1,576,426	7	Restarted system					-	-	-	-	-	-	-	-
04/25/06	22,410	1,577,806	345	-	-	-	-	-	-	-	-	-	-	-	-	
04/26/06	23,010	1,578,406	600	Turned off system for carbon change					-	-	-	-	-	-	-	-
05/02/06	23,030	1,578,426	3	Restarted after carbon change					-	-	-	-	-	-	-	-
05/09/06	27,710	1,583,106	669	-	-	-	-	-	-	-	-	-	-	-	-	
05/17/06	28,900	1,584,296	149	-	-	-	-	-	-	-	-	-	-	-	-	
05/23/06	31,430	1,586,826	422	<5.6	<0.32	<0.1	<0.24	<0.3	1,020,000	3,330	111,000	7,440	38,400	<630	-	
05/31/06	37,710	1,593,106	785	-	-	-	-	-	-	-	-	-	-	-	-	
06/09/06	39,890	1,595,286	242	-	-	-	-	-	71,000	520	16,300	820	6,840	-	-	
06/13/06	40,460	1,595,856	143	-	-	-	-	-	-	-	-	-	-	-	-	
06/21/06	41,240	1,596,636	98	-	-	-	-	-	-	-	-	-	-	-	-	
06/27/06	42,360	1,597,756	187	-	-	-	-	-	-	-	-	-	-	-	-	
07/11/06	46,380	1,601,776	287	<5.6	<0.32	<0.10	<0.24	<0.30	8070	18	385	73	1530	40	-	
07/18/06	47,270	1,602,666	127	System was turned off for QWS					-	-	-	-	-	-	-	-
07/25/06	47,280	1,602,676	1	Restarted system					-	-	-	-	-	-	-	-
08/01/06	47,860	1,603,256	83	-	-	-	-	-	-	-	-	-	-	-	-	
08/18/06	50,000	1,605,396	126	-	-	-	-	-	-	-	-	-	-	-	-	
08/22/06	50,060	1,605,456	15	-	-	-	-	-	-	-	-	-	-	-	-	
08/29/06	50,940	1,606,336	126	-	-	-	-	-	-	-	-	-	-	-	-	
09/06/06	51,360	1,606,756	53	-	-	-	-	-	-	-	-	-	-	-	-	
09/12/06	53,150	1,608,546	298	-	-	-	-	-	-	-	-	-	-	-	-	
09/14/06	53,730	1,609,126	290	System was turned off for groundwater well sampling					-	-	-	-	-	-	-	-
09/19/06	53,940	1,609,336	42	Restarted system					53,600	59	3,630	4,510	7,400	96	-	-
09/27/06	54,160	1,609,556	28	-	-	-	-	-	-	-	-	-	-	-	-	
10/04/06	54,370	1,609,766	30	<5.6	<0.32	<0.10	<0.24	<0.30	573	14	34	44	97	230	-	
10/13/06	56,380	1,611,776	223	-	-	-	-	-	-	-	-	-	-	-	-	
10/17/06	56,780	1,612,176	100	System was turned off for groundwater well sampling					-	-	-	-	-	-	-	-
10/27/06	56,780	1,612,176	-	Restarted system					-	-	-	-	-	-	-	-
10/31/06	57,010	1,612,406	35	-	-	-	-	-	-	-	-	-	-	-	-	
11/07/06	58,720	1,614,116	244	-	-	-	-	-	-	-	-	-	-	-	-	

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)							
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE		
11/16/06	59,010	1,614,406	32	-	-	-	-	-	-	-	-	-	-	-	-	
11/22/06	59,100	1,614,496	15	-	-	-	-	-	-	-	-	-	-	-	-	
11/30/06	61,302	1,616,698	275	-	-	-	-	-	-	-	-	-	-	-	-	
12/06/06	61,860	1,617,256	93	-	-	-	-	-	-	-	-	-	-	-	-	
12/13/06	61,930	1,617,326	10	System was shut down for maintenance					-	-	-	-	-	-	-	-
01/03/07	61,930	1,617,326	-	Restarted system					-	-	-	-	-	-	-	-
01/05/07	62,140	1,617,536	105	-	-	-	-	-	-	-	-	-	-	-	-	
01/09/07	62,870	1,618,266	183	-	-	-	-	-	-	-	-	-	-	-	-	
01/16/07	63,140	1,618,536	39	<5.6	<0.17	<0.22	<0.14	<0.38	144,000	<64.0	12,100	4,650	28,300	<126	-	
01/25/07	63,740	1,619,136	67	Restarted system (shut down on 1/16/07 for groundwater sampling.)					-	-	-	-	-	-	-	-
01/30/07	64,140	1,619,536	80	-	-	-	-	-	-	-	-	-	-	-	-	
02/02/07	64,530	1,619,926	130	Shut down for carbon change-out					-	-	-	-	-	-	-	-
02/09/07	64,540	1,619,936	1	Restarted after carbon change-out					-	-	-	-	-	-	-	-
02/13/07	64,920	1,620,316	95	-	-	-	-	-	-	-	-	-	-	-	-	
02/19/07	65,213	1,620,609	49	-	-	-	-	-	-	-	-	-	-	-	-	
02/28/07	65,730	1,621,126	57	-	-	-	-	-	-	-	-	-	-	-	-	
03/08/07	66,370	1,621,766	80	-	-	-	-	-	-	-	-	-	-	-	-	
03/13/07	67,240	1,622,636	174	-	-	-	-	-	-	-	-	-	-	-	-	
03/20/07	68,410	1,623,806	167	-	-	-	-	-	-	-	-	-	-	-	-	
03/27/07	68,630	1,624,026	31	-	-	-	-	-	-	-	-	-	-	-	-	
04/03/07	68,900	1,624,296	39	-	-	-	-	-	-	-	-	-	-	-	-	
04/10/07	69,780	1,625,176	126	<5.6	<0.17	<0.22	<0.14	<0.38	4,390	30	514	45 J	595	51	-	
04/13/07	69,940	1,625,336	53	System was turned off for groundwater well sampling					-	-	-	-	-	-	-	-
04/20/07	69,940	1,625,336	-	Restarted system					-	-	-	-	-	-	-	-
04/26/07	70,130	1,625,526	32	-	-	-	-	-	-	-	-	-	-	-	-	
05/02/07	-	-	-	-	<0.7	<0.67	<0.65	<1.3	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)							
05/02/07	71,300	1,626,696	195	<5.6	<0.17	<0.22	<0.14	<0.38	Split-sample results during EBMUD inspection & sampling							
05/08/07	71,630	1,627,026	55	-	-	-	-	-	-	-	-	-	-	-	-	
05/17/07	72,710	1,628,106	120	-	-	-	-	-	-	-	-	-	-	-	-	
05/24/07	73,120	1,628,516	59	-	-	-	-	-	-	-	-	-	-	-	-	
06/01/07	75,340	1,630,736	278	-	-	-	-	-	-	-	-	-	-	-	-	
06/14/07	76,840	1,632,236	115	-	-	-	-	-	-	-	-	-	-	-	-	
06/19/07	77,234	1,632,630	79	-	-	-	-	-	-	-	-	-	-	-	-	
06/21/07	77,289	1,632,685	28	-	-	-	-	-	416,000	3,330	49,400	7,250	39,700	<19	-	
06/28/07	77,690	1,633,086	57	-	-	-	-	-	-	-	-	-	-	-	-	
07/03/07	80,230	1,635,626	508	-	-	-	-	-	-	-	-	-	-	-	-	
07/10/07	86,310	1,641,706	869	-	-	-	-	-	-	-	-	-	-	-	-	



**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
07/17/07	87,620	1,643,016	187	System was turned off for groundwater well sampling					-	-	-	-	-	-	-
07/20/07	87,620	1,643,016	-	Restarted system					-	-	-	-	-	-	
07/24/07	87,930	1,643,326	78	-	-	-	-	-	-	-	-	-	-	-	
07/31/07	88,260	1,643,656	47	-	-	-	-	-	-	-	-	-	-	-	
08/07/07	88,930	1,644,326	96	-	-	-	-	-	-	-	-	-	-	-	
08/14/07	89,620	1,645,016	99	-	-	-	-	-	-	-	-	-	-	-	
08/21/07	91,200	1,646,596	226	54	<0.15	<0.12	<0.09	<0.26	-	-	-	-	-	-	
08/30/07	92,300	1,647,696	122	-	-	-	-	-	-	-	-	-	-	-	
09/05/07	92,720	1,648,116	70	Shut down for carbon change-out					-	-	-	-	-	-	
09/11/07	92,720	1,648,116	-	-	-	-	-	-	-	-	-	-	-	-	
09/17/07	92,760	1,648,156	7	Restart system after carbon change-out					-	-	-	-	-	-	
09/24/07	100,590	1,655,986	1,119	-	-	-	-	-	-	-	-	-	-	-	
10/02/07	109,100	1,664,496	1,064	-	-	-	-	-	-	-	-	-	-	-	
10/10/07	118,640	1,674,036	1,193	-	-	-	-	-	-	-	-	-	-	-	
10/16/07	124,630	1,680,026	998	Shut down for QWS					-	-	-	-	-	-	
10/19/07	124,690	1,680,086	20	Restart system after QWS					-	-	-	-	-	-	
10/23/07	124,860	1,680,256	43	-	-	-	-	-	-	-	-	-	-	-	
10/30/07	127,680	1,683,076	403	-	-	-	-	-	-	-	-	-	-	-	
11/20/07	139,850	1,695,246	580	<5.6	<0.15	<0.12	<0.09	<0.26	251	<0.18	<0.24	1.8 J	6.1	138	
11/30/07	154,320	1,709,716	1,447	-	-	-	-	-	-	-	-	-	-	-	
12/04/07	154,400	1,709,796	20	-	-	-	-	-	-	-	-	-	-	-	
12/14/07	164,210	1,719,606	981	-	-	-	-	-	12,400	302	2170	853	5090	<1.9	
12/21/07	167,300	1,722,696	441	-	-	-	-	-	-	-	-	-	-	-	
12/28/07	169,420	1,724,816	303	-	-	-	-	-	-	-	-	-	-	-	
01/02/08	172,430	1,727,826	602	-	-	-	-	-	-	-	-	-	-	-	
01/11/08	178,960	1,734,356	726	-	-	-	-	-	-	-	-	-	-	-	
01/15/08	179,240	1,734,636	70	<5.6	<0.15	<0.12	<0.09	<0.26	793	31	32	16	46	63	
01/18/08	179,240	1,734,636	-	Restart system after QWS					-	-	-	-	-	-	
01/25/08	188,920	1,744,316	1,383	-	-	-	-	-	-	-	-	-	-	-	
02/01/08	192,200	1,747,596	469	-	-	-	-	-	-	-	-	-	-	-	
02/05/08	195,150	1,750,546	738	-	-	-	-	-	444	2.4	137	21	100	84	
02/15/08	195,570	1,750,966	42	-	-	-	-	-	-	-	-	-	-	-	
02/22/08	198,380	1,753,776	401	-	-	-	-	-	-	-	-	-	-	-	
02/29/08	203,160	1,758,556	683	-	-	-	-	-	-	-	-	-	-	-	
03/07/08	210,490	1,765,886	1,047	-	-	-	-	-	-	-	-	-	-	-	
03/12/08	216,700	1,772,096	1,242	<5.6	<0.15	<0.12	<0.09	<0.26	111	<0.18	<0.24	<0.21	7.8	23	
03/25/08	233,240	1,788,636	1,272	-	-	-	-	-	-	-	-	-	-	-	

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)							
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE		
03/27/08	233,970	1,789,366	365	-	-	-	-	-	-	-	-	-	-	-	-	
04/23/08	234,000	1,789,396	1	<6.6	<0.15	<0.12	<0.09	<0.26	4,520	16	<0.24	<0.21	1040	6.6	-	
05/01/08	245,000	1,800,396	1,375	-	-	-	-	-	-	-	-	-	-	-	-	
05/06/08	254,850	1,810,246	1,970	-	-	-	-	-	-	-	-	-	-	-	-	
05/13/08	258,100	1,813,496	464	-	-	-	-	-	29,200	219	3,130	913	4,860	<3.8	-	
05/20/08	267,970	1,823,366	1,410	-	-	-	-	-	-	-	-	-	-	-	-	
05/28/08	277,550	1,832,946	1,198	-	-	-	-	-	-	-	-	-	-	-	-	
06/04/08	277,600	1,832,996	7	-	-	-	-	-	-	-	-	-	-	-	-	
06/10/08	279,680	1,835,076	347	-	-	-	-	-	-	-	-	-	-	-	-	
06/17/08	279,690	1,835,086	1	-	-	-	-	-	-	-	-	-	-	-	-	
06/25/08	288,300	1,843,696	1,076	-	-	-	-	-	19,700	78	416	210	1,120	5.9	-	
07/08/08	300,310	1,855,706	924	<6.6	<0.15	3.0	0.6	3.4	20,100	526	3,160	607	3,220	52	-	
07/15/08	302,720	1,858,116	344	SHUT DOWN SYSTEM FOR QWS				-	-	-	-	-	-	-	-	-
07/22/08	307,280	1,862,676	651	RESTART SYSTEM AFTER QWS				-	-	-	-	-	-	-	-	-
07/29/08	314,840	1,870,236	1,080	SHUT DOWN SYSTEM FOR CARBON CHANGEOUT				-	-	-	-	-	-	-	-	-
08/06/08	314,840	1,870,236	-	CARBON CHANGEOUT				-	-	-	-	-	-	-	-	-
08/08/08	314,880	1,870,276	20	RESTART SYSTEM AFTER CARBON CHANGEOUT				-	-	-	-	-	-	-	-	-
08/15/08	323,520	1,878,916	1,234	-	-	-	-	-	8,430	95	705	259	1,340	21	-	
08/22/08	326,970	1,882,366	493	-	-	-	-	-	-	-	-	-	-	-	-	
08/29/08	336,510	1,891,906	1,363	-	-	-	-	-	-	-	-	-	-	-	-	
09/03/08	336,940	1,892,336	86	-	-	-	-	-	-	-	-	-	-	-	-	
09/09/08	345,120	1,900,516	1,363	-	-	-	-	-	-	-	-	-	-	-	-	
09/16/08	353,740	1,909,136	1,231	-	-	-	-	-	-	-	-	-	-	-	-	
09/23/08	362,360	1,917,756	1,231	-	-	-	-	-	-	-	-	-	-	-	-	
09/30/08	367,980	1,923,376	803	-	-	-	-	-	-	-	-	-	-	-	-	
10/07/08	374,190	1,929,586	887	-	-	-	-	-	-	-	-	-	-	-	-	
10/14/08	380,700	1,936,096	930	SHUT DOWN SYSTEM FOR QWS				-	-	335	21	4.5 J	<0.21	7.1	185	-
10/21/08	380,730	1,936,126	4	RESTARTED AFTER QWS				-	-	-	-	-	-	-	-	-
10/28/08	389,750	1,945,146	1,289	-	-	-	-	-	-	-	-	-	-	-	-	
11/04/08	397,700	1,953,096	1,136	-	-	-	-	-	-	-	-	-	-	-	-	
11/13/08	403,340	1,958,736	627	-	-	-	-	-	-	-	-	-	-	-	-	
11/19/08	411,970	1,967,366	1,438	-	-	-	-	-	-	-	-	-	-	-	-	
11/25/08	419,910	1,975,306	1,323	-	-	-	-	-	-	-	-	-	-	-	-	
12/03/08	428,530	1,983,926	1,078	-	-	-	-	-	-	-	-	-	-	-	-	
12/09/08	436,480	1,991,876	1,325	<6.6	<0.23	<0.23	<0.26	<0.81	89	2.2	<0.24	<0.21	4.8 J	35	-	
12/17/08	445,440	2,000,836	1,120	-	-	-	-	-	-	-	-	-	-	-	-	
12/24/08	455,270	2,010,666	1,404	-	-	-	-	-	-	-	-	-	-	-	-	
12/30/08	464,210	2,019,606	1,490	-	-	-	-	-	-	-	-	-	-	-	-	

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
01/08/09	473,310	2,028,706	1,011	-	-	-	-	-	-	-	-	-	-	-	-
01/09/09	473,550	2,028,946	240	-	-	-	-	-	-	-	-	-	-	-	-
01/14/09	480,890	2,036,286	1,468	-	-	-	-	-	-	-	-	-	-	-	-
01/15/09	481,090	2,036,486	200	-	-	-	-	-	-	-	-	-	-	-	-
01/16/09	481,380	2,036,776	290	SHUT DOWN SYSTEM FOR QWS					-	-	-	-	-	-	-
01/22/09	481,460	2,036,856	13	RESTARTED AFTER QWS					-	-	-	-	-	-	-
01/26/09	488,740	2,044,136	1,820	-	-	-	-	-	-	-	-	-	-	-	-
02/02/09	499,400	2,054,796	1,523	-	-	-	-	-	-	-	-	-	-	-	-
02/09/09	509,270	2,064,666	1,410	-	-	-	-	-	-	-	-	-	-	-	-
02/19/09	509,390	2,064,786	12	SYSTEM SHUTDOWN DUE TO BREAK-IN/THEFT					-	-	-	-	-	-	-
02/27/09	509,410	2,064,806	3	RESTARTED SYSTEM					-	-	-	-	-	-	-
03/02/09	509,750	2,065,146	113	-	-	-	-	-	-	-	-	-	-	-	-
03/06/09	513,540	2,068,936	948	-	-	-	-	-	-	-	-	-	-	-	-
03/09/09	516,010	2,071,406	823	-	-	-	-	-	-	-	-	-	-	-	-
03/16/09	524,240	2,079,636	1,176	-	-	-	-	-	-	-	-	-	-	-	-
03/23/09	525,740	2,081,136	214	-	-	-	-	-	-	-	-	-	-	-	-
04/02/09	528,090	2,083,486	235	-	-	-	-	-	-	-	-	-	-	-	-
04/10/09	532,790	2,088,186	588	SHUT DOWN SYSTEM FOR QWS					-	-	-	-	-	-	-
04/16/09	532,830	2,088,226	7	RESTARTED AFTER QWS					-	-	-	-	-	-	-
04/22/09	541,390	2,096,786	1,427	-	-	-	-	-	<6.6	<0.18	<0.24	<0.21	1.0 J	<0.19	-
04/27/09	547,630	2,103,026	1,248	-	-	-	-	-	-	-	-	-	-	-	-
05/04/09	555,260	2,110,656	1,090	-	-	-	-	-	-	-	-	-	-	-	-
05/13/09	563,400	2,118,796	904	-	-	-	-	-	-	-	-	-	-	-	-
05/18/09	569,380	2,124,776	1,196	-	-	-	-	-	-	-	-	-	-	-	-
05/26/09	574,820	2,130,216	680	-	-	-	-	-	-	-	-	-	-	-	-
06/09/09	577,540	2,132,936	194	FOUND SYSTEM OFF. AIR COMPRESSOR OVERLOAD					-	-	-	-	-	-	-
06/15/09	583,380	2,138,756	970	<6.6	<0.18	<0.24	<0.21	<0.45	451	94	50	1.3 J	44	80	-
06/17/09	585,430	2,140,826	1,035	-	-	-	-	-	-	-	-	-	-	-	-
06/23/09	592,510	2,147,906	1,180	-	-	-	-	-	-	-	-	-	-	-	-
07/07/09	600,510	2,155,906	571	-	-	-	-	-	-	-	-	-	-	-	-
07/15/09	609,430	2,164,826	1,115	-	-	-	-	-	-	-	-	-	-	-	-
07/21/09	615,570	2,170,966	1,023	-	-	-	-	-	-	-	-	-	-	-	-
07/28/09	622,400	2,177,796	976	-	-	-	-	-	-	-	-	-	-	-	-
08/04/09	629,960	2,185,356	1,080	-	-	-	-	-	-	-	-	-	-	-	-
08/10/09	633,250	2,188,646	548	<6.6	<0.23	<0.23	<0.26	<0.81	Split-sample results during EBMUD inspection & sampling						
08/13/09	-	-	-	-	<0.51	<0.51	<0.41	<1.3 / <0.37	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
08/19/09	639,790	2,195,186	727	-	-	-	-	-	-	-	-	-	-	-	-
08/26/09	647,390	2,202,786	1,086	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 049, OAKLAND, CA

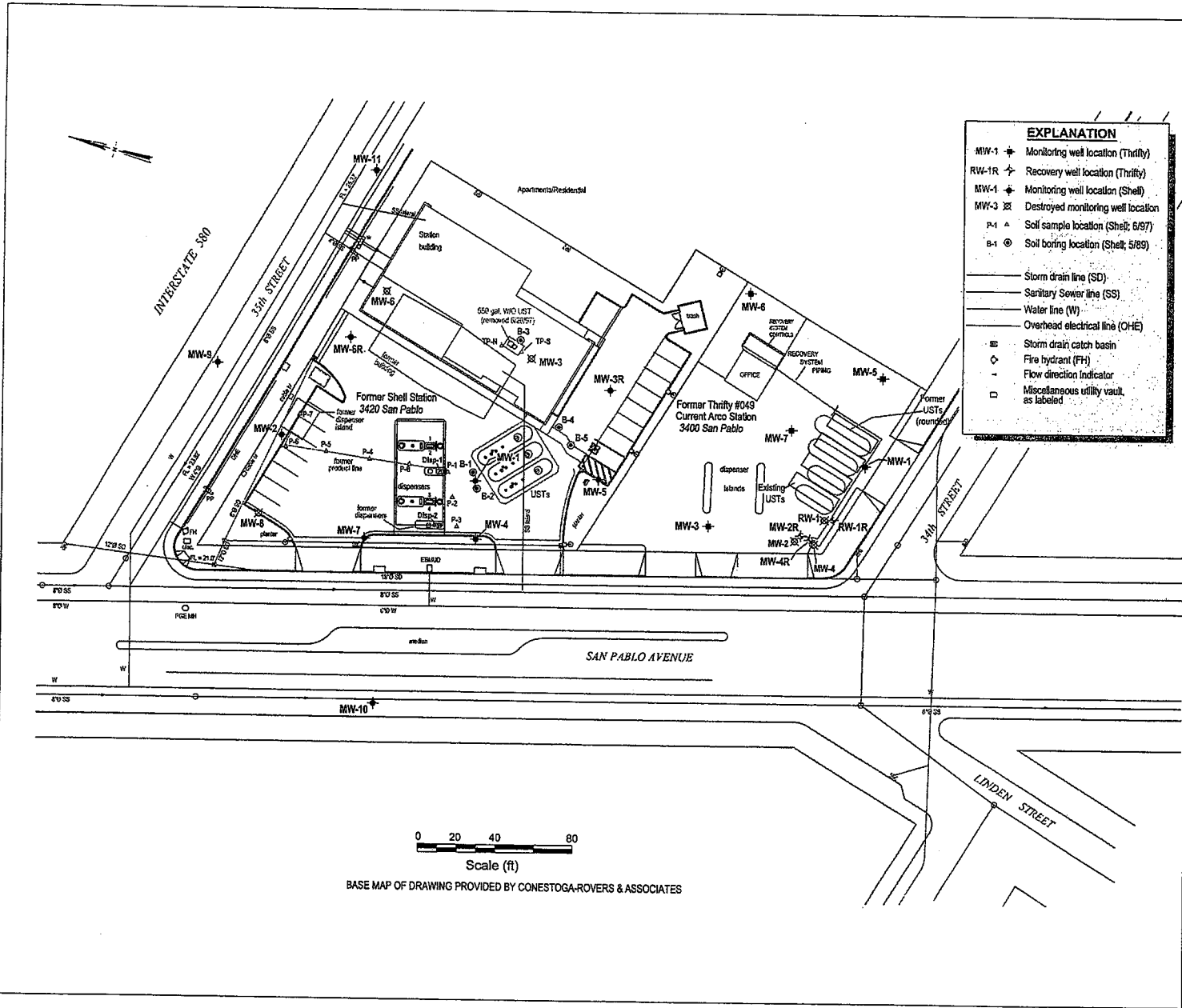
Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT (ug/L)					INLET / INFLUENT (ug/L)						
				TPH-g	B	T	E	X	TPH-g	B	T	E	X	MTBE	
09/02/09	654,650	2,210,046	1,037	-	-	-	-	-	-	-	-	-	-	-	-
09/10/09	661,090	2,216,486	805	-	-	-	-	-	-	-	-	-	-	-	-
09/21/09	669,140	2,224,536	732	-	-	-	-	-	-	-	-	-	-	-	-
09/29/09	675,680	2,231,076	818	-	-	-	-	-	-	-	-	-	-	-	-
10/09/09	683,890	2,239,286	821	-	-	-	-	-	-	-	-	-	-	-	-
10/13/09	688,400	2,243,796	1,128	-	-	-	-	-	-	-	-	-	-	-	-
10/20/09	693,420	2,248,816	717	Shut down for QWS		-	-	-	-	-	-	-	-	-	-
10/22/09	693,480	2,248,876	30	Restart system after QWS		-	-	-	-	-	-	-	-	-	-
10/27/09	697,020	2,252,416	708	-	-	-	-	-	-	-	-	-	-	-	-
11/04/09	704,580	2,259,976	945	-	-	-	-	-	-	-	-	-	-	-	-
11/10/09	711,470	2,266,866	1,148	-	-	-	-	-	-	-	-	-	-	-	-

<b>WD PERMIT LIMITS:</b>	NE	5.0	5.0	5.0	5.0
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**Note:** < = less than laboratory detection level indicated  
 - = no sample / not analyzed  
 NE = Permit Limit not established  
 Total Hydrocarbons Removed = From 4/8/91 to 2/10/92, the influent TPHg is assumed to be 47,000 (3/9/92)  
 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.

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

# ***FIGURES***

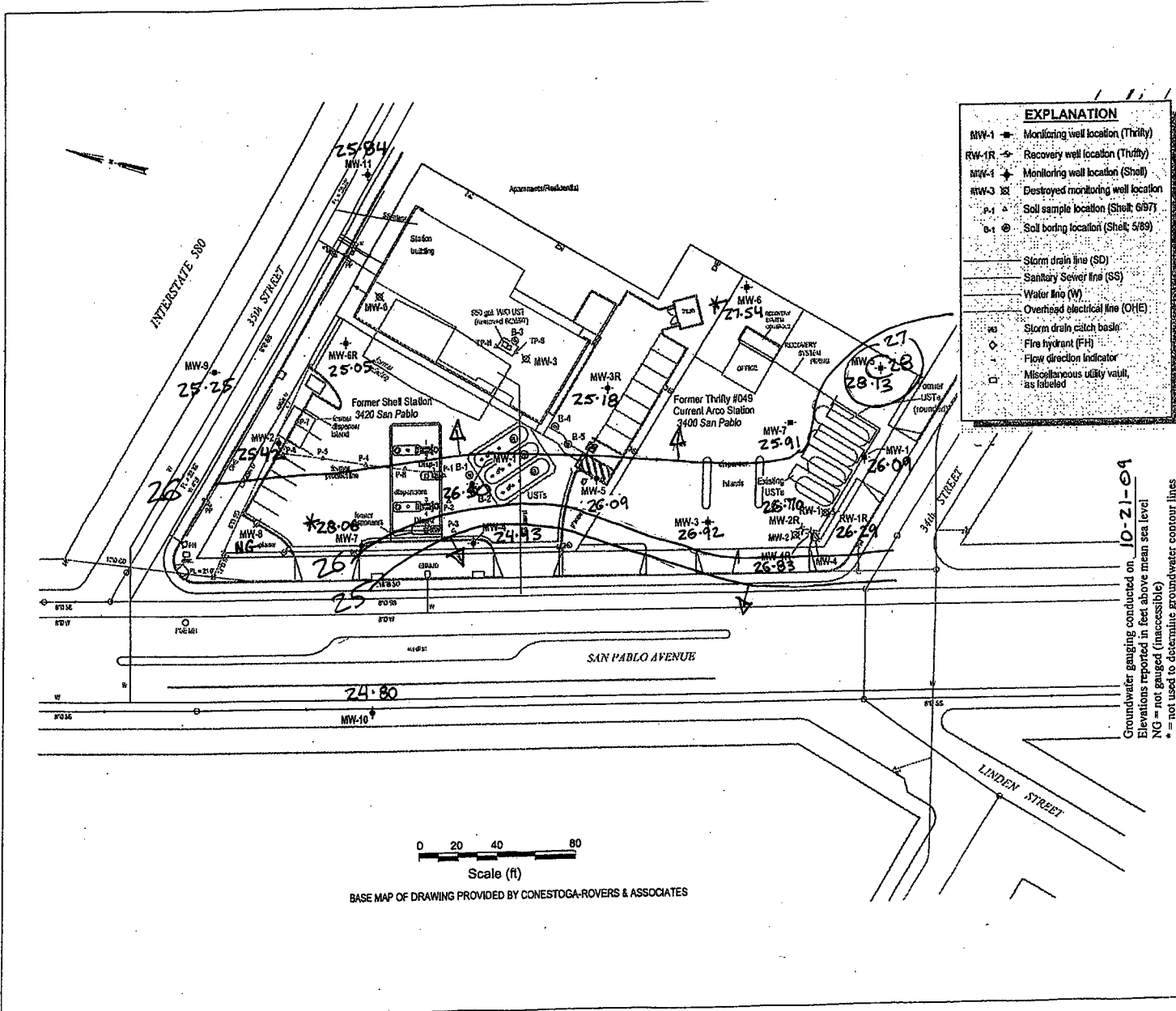


EXPLANATION	
MW-1	Monitoring well location (Thrifty)
RW-1R	Recovery well location (Thrifty)
MW-1	Monitoring well location (Shell)
MW-3	Destroyed monitoring well location
P-1	Soil sample location (Shell; 6/97)
B-1	Soil boring location (Shell; 5/89)
—	Storm drain line (SD)
—	Sanitary Sewer line (SS)
—	Water line (W)
—	Overhead electrical line (OHE)
■	Storm drain catch basin
◇	Fire hydrant (FH)
-	Flow direction indicator
□	Miscellaneous utility vault, as labeled

FIGURE: **1**  
 REVISION NO: 0  
 DATE: 06/07

**SITE PLAN**  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

0 20 40 80  
 Scale (ft)  
 BASE MAP OF DRAWING PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES



EXPLANATION	
MW-1	Monitoring well location (Thrifty)
RW-1R	Recovery well location (Thrifty)
MW-4	Monitoring well location (Shell)
MW-3	Destroyed monitoring well location
P-1	Soil sample location (Shell; 6/97)
P-4	Soil boring location (Shell; 5/89)
SD	Storm drain line (SD)
SS	Sanitary Sewer line (SS)
W	Water line (W)
OHE	Overhead electrical line (OHE)
SDCB	Storm drain catch basin
FH	Fire hydrant (FH)
FDI	Flow direction indicator
MU	Miscellaneous utility vault, as labeled

Groundwater gauging conducted on 10-21-04  
 Elevations reported in feet above mean sea level  
 NG = not gauged (inaccessible)  
 \* = not used to determine groundwater contour lines

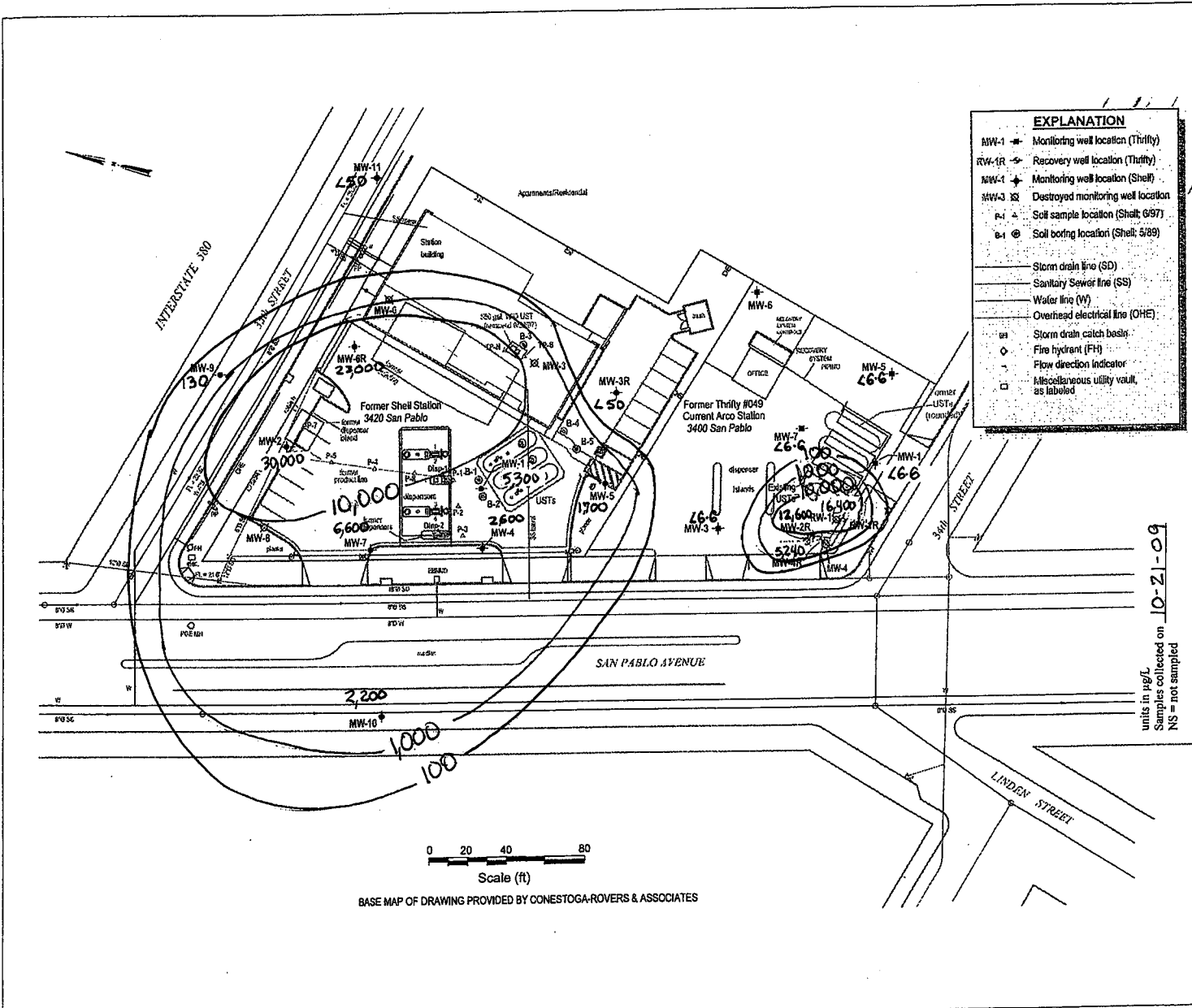
BASE MAP OF DRAWING PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES

FIGURE 2  
 REVISION NO.  
 DATE

**GROUNDWATER CONTOUR MAP**  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

**EQUIPOSE**  
 CORPORATION

1401 B Camino Real, Suite 107  
 San Bruno, CA 94066  
 Phone: 415 335 0285  
 Fax: 415 335 0281



**EXPLANATION**

- MW-1 + Monitoring well location (Thrifty)
- RW-1R + Recovery well location (Thrifty)
- MW-1 + Monitoring well location (Shell)
- MW-3 x Destroyed monitoring well location
- P-1 + Soil sample location (Shell; 6/97)
- B-1 + Soil boring location (Shell; 5/89)
- Storm drain line (SD)
- Sanitary Sewer line (SS)
- Water line (W)
- Overhead electrical line (OHE)
- SD Storm drain catch basin
- ◇ Fire hydrant (FH)
- > Flow direction indicator
- Miscellaneous utility vault, as labeled

units in µg/L  
 Samples collected on 10-21-09  
 NS = not sampled

0 20 40 80  
 Scale (ft)  
 BASE MAP OF DRAWING PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES

FIGURE: 3

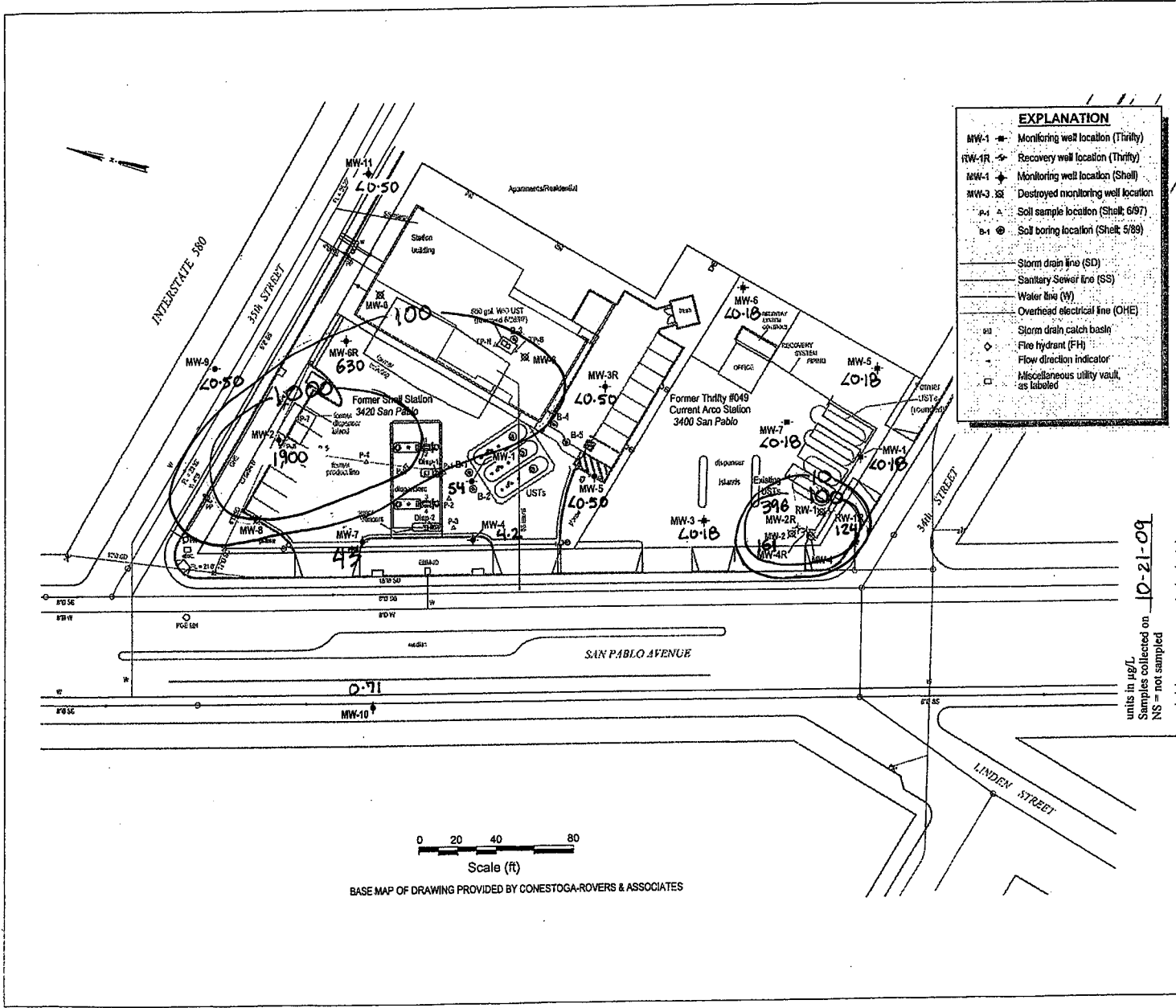
TPH<sub>g</sub> Isoconcentration Map  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

REVISION NO. \_\_\_\_\_  
 DATE: \_\_\_\_\_

1401 El Camino Real, Suite 107  
 San Leandro, CA 94608  
 Tel: 947-888-0282  
 Fax: 947-888-0281

**EQUIPOSE**  
 CORPORATION





EXPLANATION	
MW-1	Monitoring well location (Thrifty)
RW-1R	Recovery well location (Thrifty)
MW-1	Monitoring well location (Shell)
MW-3	Destroyed monitoring well location
P-1	Soil sample location (Shell; 6/97)
P-1	Soil boring location (Shell; 5/89)
— Storm drain line (SD)	
— Sanitary Sewer line (SS)	
— Water line (W)	
— Overhead electrical line (OHE)	
CB	Storm drain catch basin
◆	Fire hydrant (FH)
→	Flow direction indicator
□	Miscellaneous utility vault, as labeled

units in ug/L  
 Samples collected on 10-21-09  
 NS = not sampled

0 20 40 80  
 Scale (ft)  
 BASE MAP OF DRAWING PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES

FIGURE: 4

REVISION N \_\_\_\_\_ DATE \_\_\_\_\_

Benzene Isoconcentration Map  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

1401 El Camino Real, Suite 107  
 Foster City, CA 94404  
 Phone: 949 555 0252  
 Fax: 949 555 0251

**EQUIPOISE**  
 CORPORATION

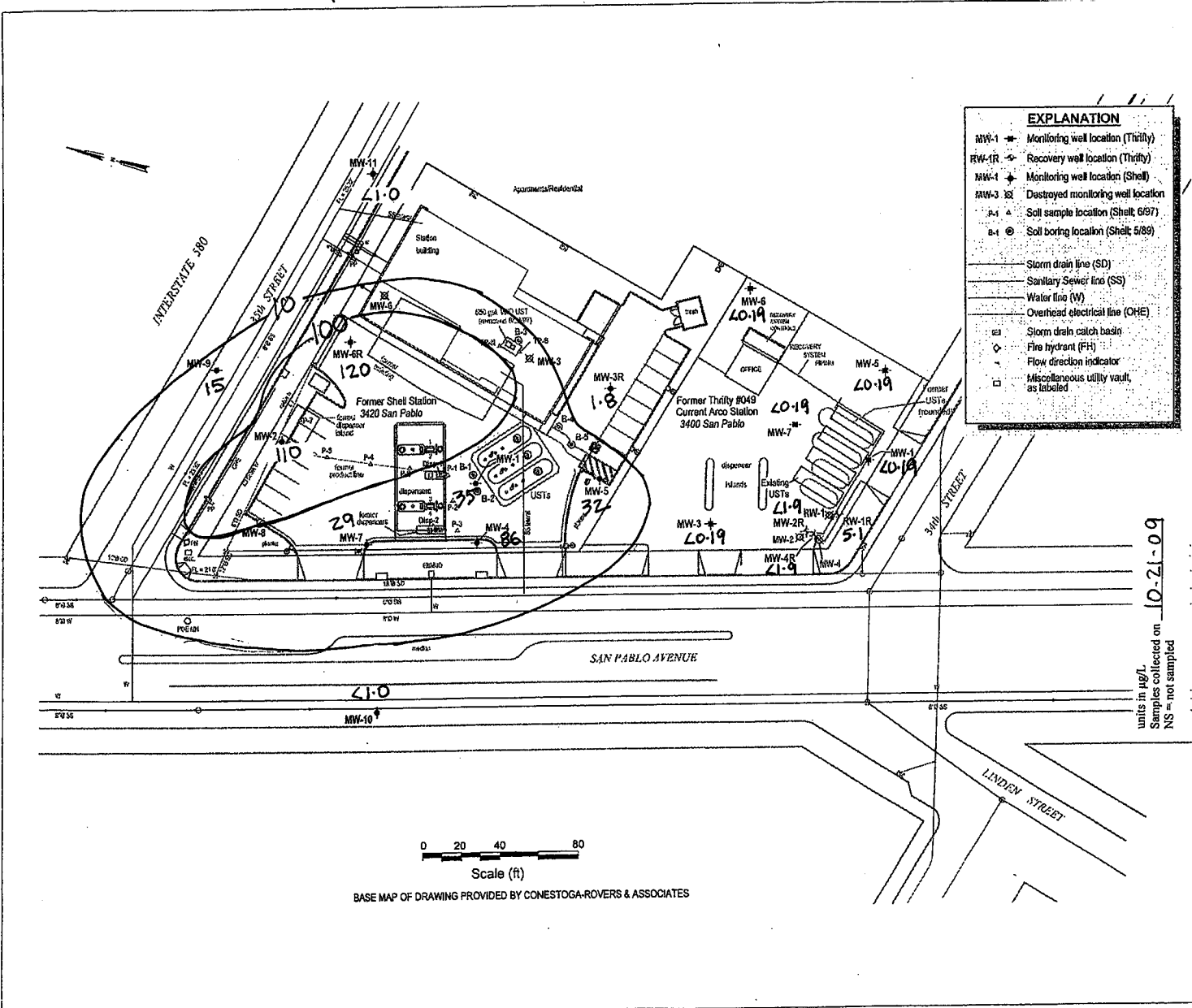
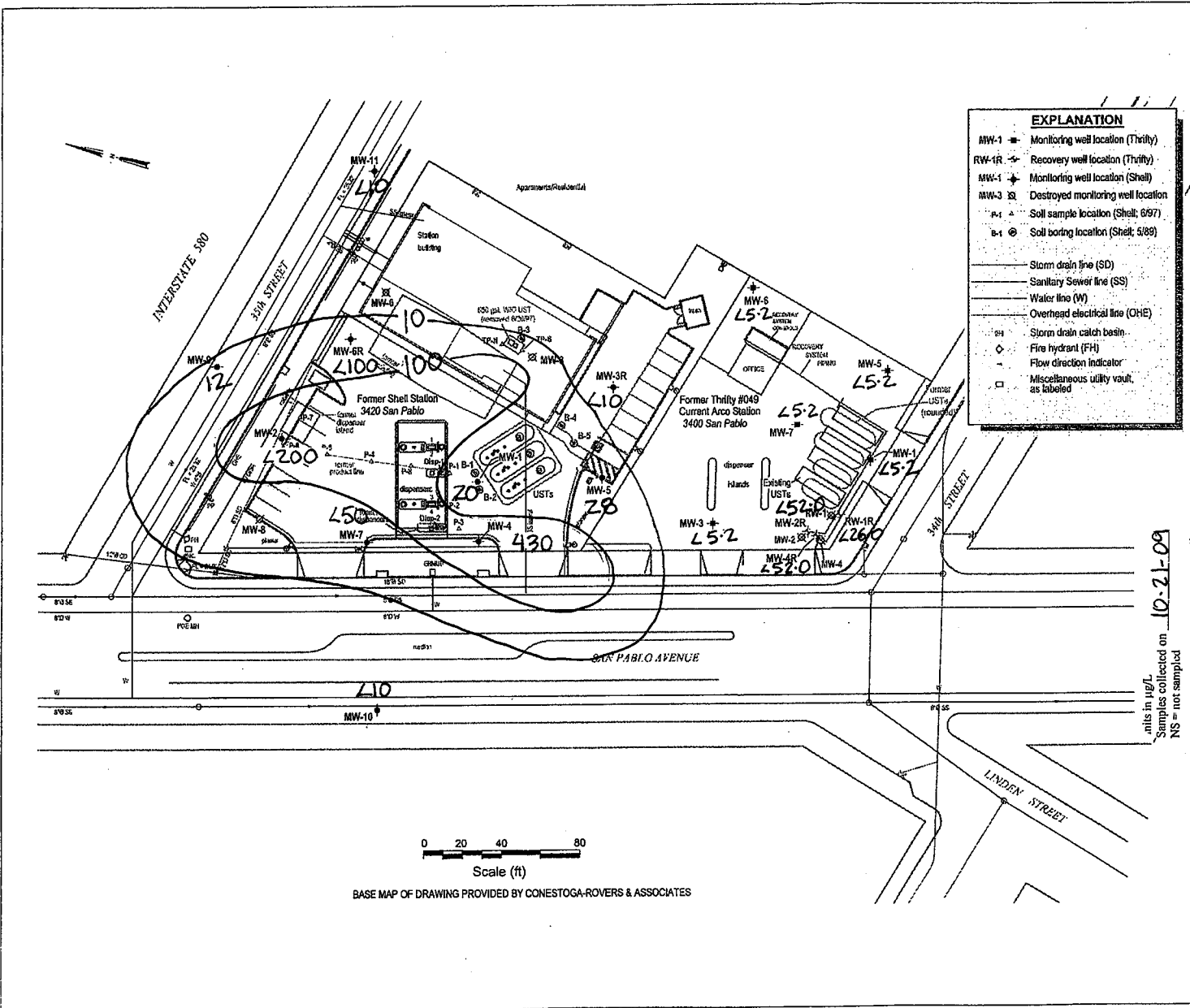


FIGURE: 5  
 REVISION 1:  
 DATE:

MTBE Isoconcentration Map  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

4401 El Camino Real, Suite 177  
 San Lorenzo, California 94772  
 Phone: 949 936 0268  
 Fax: 949 936 0261

**EQUIPOISE**  
 CORPORATION



**EXPLANATION**

- MW-1 [Symbol] Monitoring well location (Thrifty)
- RW-1R [Symbol] Recovery well location (Thrifty)
- MW-1 [Symbol] Monitoring well location (Shell)
- MW-3 [Symbol] Destroyed monitoring well location
- P-1 [Symbol] Soil sample location (Shell; 6/97)
- B-1 [Symbol] Soil boring location (Shell; 5/89)
- Storm drain line (SD)
- Sanitary Sewer line (SS)
- Water line (W)
- Overhead electrical line (OHE)
- Storm drain catch basin
- ◇ Fire hydrant (FH)
- > Flow direction indicator
- Miscellaneous utility vault, as labeled

units in µg/L  
 Samples collected on 10-21-09  
 NS = not sampled

0 20 40 80  
 Scale (ft)

BASE MAP OF DRAWING PROVIDED BY CONESTOGA-ROVERS & ASSOCIATES

FIGURE: 6  
 REVISION NO:  
 DATE:

TBA Isoconcentration Map  
 Thrifty Service Station #049  
 3400 San Pablo Avenue  
 Oakland, California

1451 El Comodoro Blvd., Suite 117  
 San Clemente, California 92672  
 Phone: 949 398 0656  
 Fax: 949 398 0391

**EQUIPOSE**  
 CORPORATION

# ***ATTACHMENT A***

# CALCLEAN INC.

"A Partner in Protecting California's Waters"

April 8, 2010

Thrifty Oil Co.  
Attn.: Mr. Simon Tregurtha  
13116 Imperial Highway  
Santa Fe Springs, CA 90670

1. 102583  
**RECEIVED**  
APR 16 2010 ST  
**ENVIRONMENTAL**  
58#out 9

SITE:           THRIFTY OIL COMPANY STATION #049  
                  3400 SAN PABLO AVENUE  
                  OAKLAND, CALIFORNIA

RE:             HIGH VACUUM DUAL PHASE EXTRACTION REPORT

Dear Mr. Tregurtha:

CalClean Inc. is submitting this High Vacuum Dual Phase Extraction (HVDPE) Report for the above referenced site (Figure 1). This report includes activities performed by CalClean during a 5-day (24 hours per day) HVDPE event conducted as a feasibility test between March 22-27, 2010. The work followed Thrifty Oil Company's (Thrifty) Feasibility Study and Corrective Action Plan dated September 25, 2008, and the Notification of Intent to Proceed letter dated February 9, 2010.

From March 22 through 27, 2010, CalClean performed a 5-day HVDPE event on three onsite wells - MW-2R, MW-4R, and RW-1R - using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted, propane-fired, thermal oxidizer (Plant #12568). This technology allows hydrocarbons to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone. A high vacuum was applied for vapor extraction and using a dedicated well stinger placed in the well to induce drawdown of the groundwater table around the extraction well, while vacuum and vapor flow rates were modified to optimize recovery of vapor, free-product (if any) and dissolved-phase hydrocarbons.

During the HVDPE event, vapor samples were collected in Tedlar bags from the extraction wells on the first day, and at the end of the second, third and fifth days of operation. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 2, indicate the following:

- The starting Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations in wells MW-2R, MW-4R, and RW-1R were 4,260 ppmv, 1,880 ppmv, and 3,350 ppmv, respectively. At the end of the second day, the TPHg vapor concentrations were 2,310 ppmv, 1,850 ppmv, and 2,170 ppmv, respectively. At the end of the third day, the TPHg vapor concentrations were 2,100 ppmv, 1,960 ppmv, and 1,900 ppmv, respectively. At the end of the event, the TPHg vapor concentrations were 1,580 ppmv, 1,260 ppmv, and 1,430 ppmv, respectively. The Total Inlet combined well vapor concentrations on the first day, and at the end of the second, third and fifth days of operation were 4,100 ppmv, 1,920 ppmv, 1,670 ppmv, and 1,570 ppmv, respectively.
- The starting Benzene vapor concentrations in wells MW-2R, MW-4R, and RW-1R were 7 ppmv, 3.7 ppmv, and 5.8 ppmv, respectively. At the end of the second day, the Benzene vapor concentrations were 5.7 ppmv, 4.7 ppmv, and 6.1 ppmv, respectively. At the end of the third day, the Benzene vapor concentrations were 6 ppmv, 4.7 ppmv, and 5.4 ppmv, respectively. At the end of the event, the Benzene vapor concentrations were 5.5 ppmv, 4.4 ppmv, and 4.8 ppmv, respectively. The Total Inlet combined well Benzene vapor concentrations on the first day, and at the end of the second, third and fifth days of operation were 7 ppmv, 5.1 ppmv, 5 ppmv, and 5.2 ppmv, respectively.
- The starting Methyl tert-Butyl Ether (MtBE) vapor concentrations (using EPA Method 8021B) in wells MW-2R, MW-4R, and RW-1R were 24 ppmv, 9.1 ppmv, and 14 ppmv, respectively. At the end of the second day, the MtBE vapor concentrations were 10 ppmv, 15 ppmv, and 19 ppmv, respectively. At the end of the third day, the MtBE vapor concentrations were 10 ppmv, 13 ppmv, and 14 ppmv, respectively. At the end of the event, the MtBE vapor concentrations were 15 ppmv, 16 ppmv, and 19 ppmv, respectively. The Total Inlet combined well MtBE vapor concentrations on the first day, and at the end of the second, third and fifth days of operation were 26 ppmv, 11 ppmv, 9.8 ppmv, and 17 ppmv, respectively.
- The starting Methyl tert-Butyl Ether (MtBE) vapor concentrations (confirmation using EPA Method 8260B) in wells MW-2R, MW-4R, and RW-1R were 0.539 ppmv, 0.599 ppmv, and 0.733 ppmv, respectively. At the end of the second day, the MtBE vapor concentrations were 0.44 ppmv, 0.2 ppmv, and ND<0.3125 ppmv, respectively. At the end of the third day, the MtBE vapor concentrations were 0.48 ppmv, ND<0.3125 ppmv, and 0.55 ppmv, respectively. At the end of the event, the MtBE vapor concentrations were 0.53 ppmv, ND<0.1 ppmv, and 0.18 ppmv, respectively. The Total Inlet combined well MtBE vapor concentrations on the first day, and at the end of the second, third and fifth days of operation were 0.537 ppmv, 0.32 ppmv, 0.34 ppmv, and 0.28 ppmv, respectively.

Based on the laboratory data, the total equivalent amount of hydrocarbons recovered through vapor extraction during the 5-day (approximately 120 hours) event was approximately 510.40 pounds (or approximately 4.25 pounds per hour). The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2.

During the 5-day event, a total of approximately 12,840 gallons of groundwater (as measured through the onsite water meter) was extracted from wells MW-2R, MW-4R, and RW-1R. The extracted groundwater was periodically treated through three granular activated carbon vessels in series inside the onsite groundwater treatment system compound. The treated groundwater was pumped to the onsite sewer system in accordance with an East Bay Municipal Utility District discharge permit #502-4445.

Groundwater samples were collected from wells MW-2R, MW-4R, and RW-1R at the start and at the end of the event. The laboratory results, listed in Table 3 and laboratory reports included in Attachment 2, indicate the following:

- The starting TPH-G groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were 6,620 ug/L, 4,860 ug/L, and 8,300 ug/L, respectively. The ending TPH-G groundwater concentrations were 3,190 ug/L, 3,300 ug/L, and 6,660 ug/L, respectively.
- The starting Benzene groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were 75 ug/L, 28 ug/L, and 52 ug/L, respectively. The ending Benzene groundwater concentrations were 31 ug/L, 28 ug/L, and 37 ug/L, respectively.
- The starting MtBE groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were 62 ug/L, 74 ug/L, and 12 ug/L, respectively. The ending MtBE groundwater concentrations were 89 ug/L, 186 ug/L, and 93 ug/L, respectively.
- The starting tert-Butanol (TBA) groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were ND<52 ug/L, ND<5.2 ug/L, and ND<52 ug/L, respectively. The ending TBA groundwater concentrations were 1,680 ug/L, 363 ug/L, and ND<26 ug/L, respectively.
- The starting tert-Amyl Methyl Ether (TAME) groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were ND<1.9 ug/L, ND<0.19 ug/L, and ND<1.9 ug/L, respectively. The ending TAME groundwater concentrations were 25 ug/L, ND<0.19 ug/L, and ND<0.95 ug/L, respectively.
- The starting and ending Ethyl tert-Butyl Ether (ETBE) and Di-isopropyl Ether (DIPE) groundwater concentrations in wells MW-2R, MW-4R, and RW-1R were not detected above the laboratory detection limit for reporting purposes.

The following attachments are included to document the HVDPE event at the site:

Figure 1	Site Plan Showing Well Locations
Figure 2	Total Inlet HC Concentrations versus Time (Using Lab Data)
Figure 3	Cumulative HC Recovered (using Lab Data)
Table 1	Results of Laboratory Analysis of Influent Vapor Samples
Table 2	Hydrocarbon Mass Removal Spreadsheet (using Lab Data)
Table 3	Results of Laboratory Analysis of Groundwater Samples
Attachment 1	High Vacuum Dual Phase Extraction Field Data Sheets
Attachment 2	Laboratory Reports

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely,

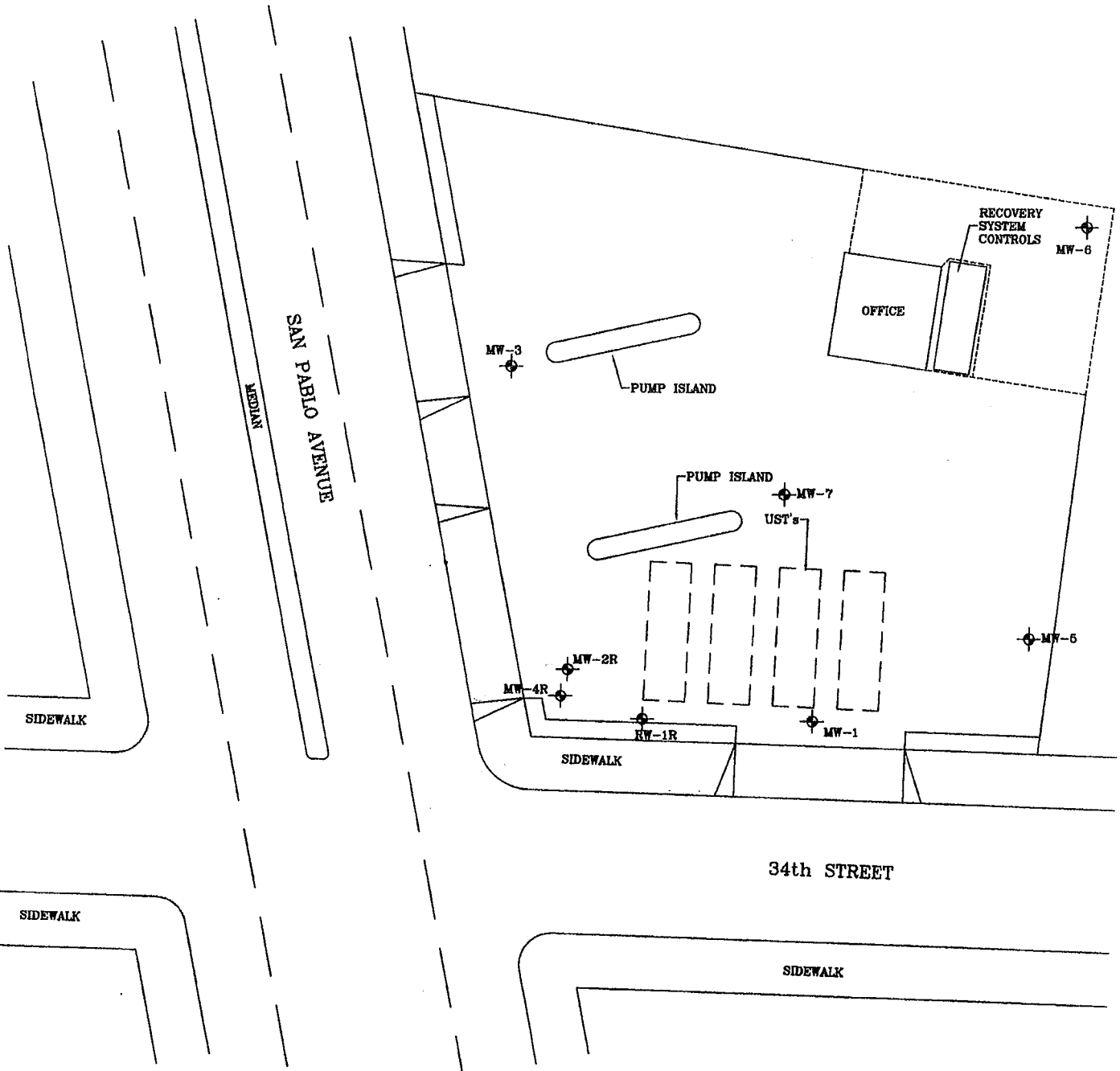
CALCLEAN INC.






Noel Sheno  
Principal Engineer

Attachments



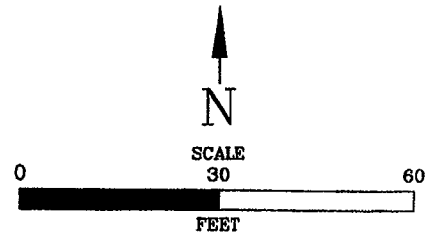


**LEGEND**

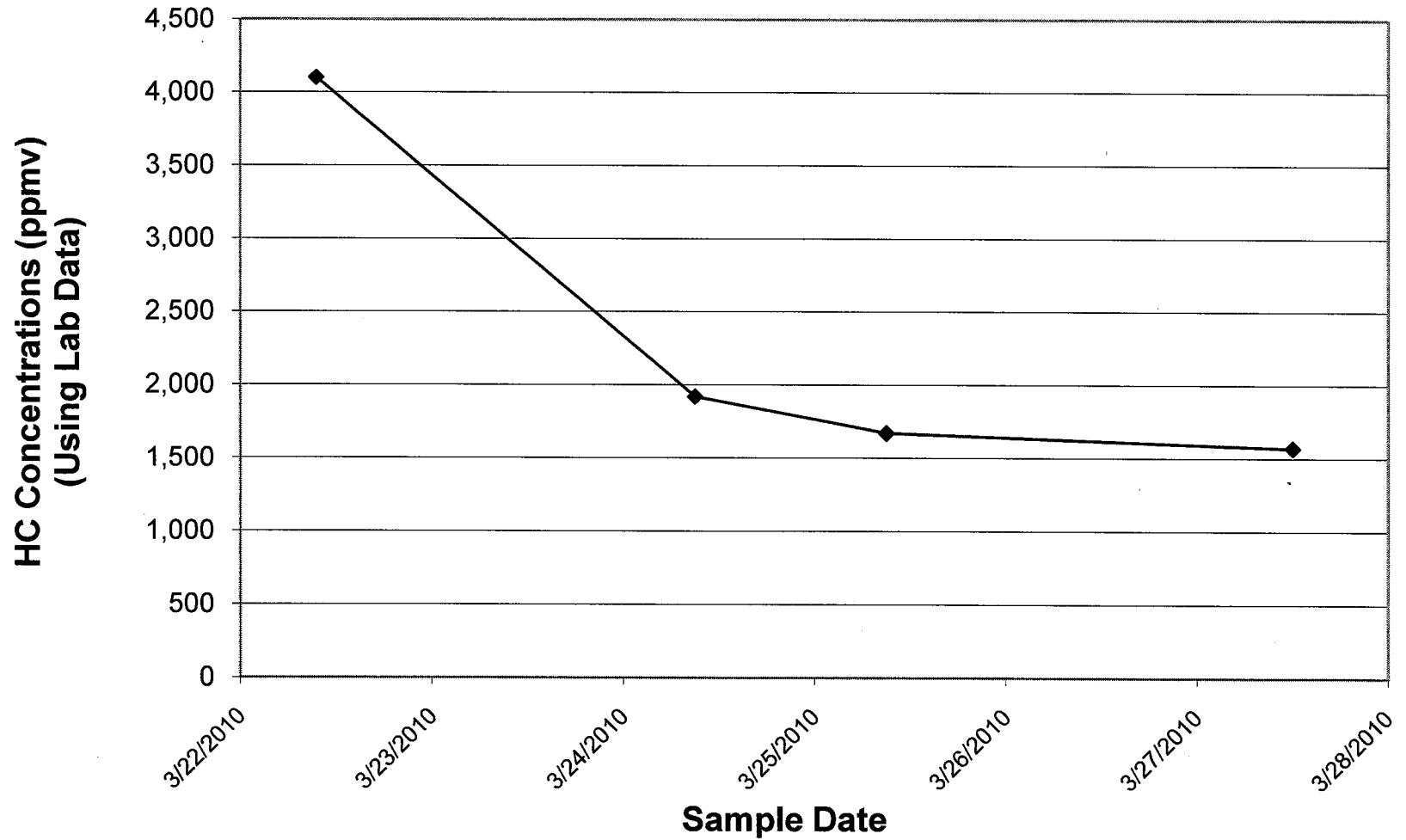
- MW-4R  RECOVERY WELL LOCATION
- MW-1  MONITORING WELL LOCATION
- SB-1  SOIL BORING LOCATION

**SITE PLAN**  
 THRIFTY OIL #049  
 3400 SAN PABLO AVE  
 OAKLAND, CALIFORNIA

FIGURE:  
 1



**Figure 2**  
**Total Inlet HC Concentrations vs Time (5 Days)**  
**Thrifty Oil #049, Oakland, CA - 3/22-27/10**



**Figure 3**  
**Cumulative HC Recovered Over 5 Days**  
**Thrifty Oil #049, Oakland, CA - 3/22-27/10**

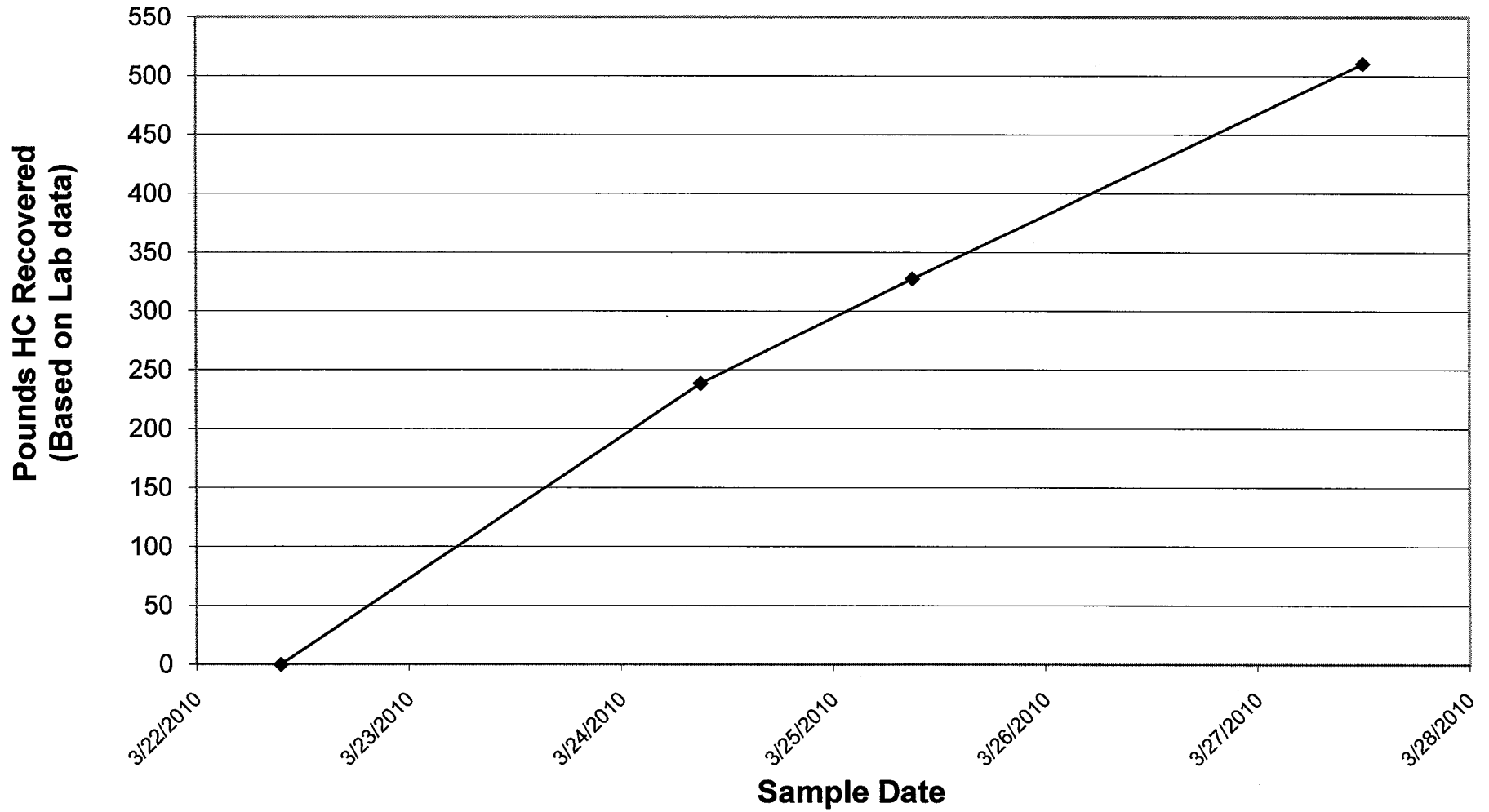


Table 1  
**RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES**  
**Thrifty Oil #049**  
**Oakland, California**

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)	MTBE* (ppmv)
MW-2R	3/22/2010 0940	4,260	7	65	32	31	24	0.539*
MW-2R	3/24/2010 0910	2,310	5.7	25	30	26	10	0.44*
MW-2R	3/25/2010 0910	2,100	6	22	25	25	10	0.48*
MW-2R	3/27/2010 1210	1,580	5.5	20	26	27	15	0.53*
MW-4R	3/22/2010 0950	1,880	3.7	59	18	19	9.1	0.599*
MW-4R	3/24/2010 0930	1,850	4.7	21	16	26	15	0.2*
MW-4R	3/25/2010 0930	1,960	4.7	21	19	32	13	ND<0.3125*
MW-4R	3/27/2010 1220	1,260	4.4	16	21	34	16	ND<0.1*

Table 1  
**RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES**  
**Thrifty Oil #049**  
**Oakland, California**

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)	MTBE* (ppmv)
RW-1R	3/22/2010 1000	3,350	5.8	51	24	20	14	0.733*
RW-1R	3/24/2010 0920	2,170	6.1	26	20	34	19	ND<0.3125*
RW-1R	3/25/2010 0920	1,900	5.4	24	19	34	14	0.55*
RW-1R	3/27/2010 1230	1,430	4.8	20	23	56	19	0.18*
TOTAL INLET	3/22/2010 0930	4,100	7	120	32	33	26	0.537*
TOTAL INLET	3/24/2010 0900	1,920	5.1	24	26	38	11	0.32*
TOTAL INLET	3/25/2010 0900	1,670	5	20	19	27	9.8	0.34*
TOTAL INLET	3/27/2010 1200	1,570	5.2	20	27	40	17	0.28*

## Notes:

ppmv = parts per million by volume  
 TPH - g = total petroleum hydrocarbons - gasoline

Samples analyzed by EPA 8015B / EPA 8021B

MtBE = Methyl tert-Butyl Ether

\*Confirmation by EPA Method 8260B

**Table 2**  
**HYDROCARBON MASS REMOVAL SPREADSHEET (Using Lab Data)**  
**Thrifty Oil #049, Oakland, CA**

TIME	SYSTEM PARAMETERS			Hydrocarbon Recovery		
	Average System Vacuum (in of Hg)	Average Total System Inlet Flow (scfm)	Influent Concentrations Post-dilution* (ppmv)	(lbs)	(gal)	(Cumul. lbs)
3/22/2010 9:30	23	98	4,100	0.00	0.00	0
3/24/2010 9:00	199	147	1,920	238.46	38.17	238.46
3/25/2010 9:00	18	157	1,670	89.15	14.27	327.61
3/27/2010 12:00	17	168	1,570	182.79	29.26	510.40
<b>TOTAL HC RECOVERED* - LAB DATA</b>				<b>510.40</b>	<b>81.70</b>	
<b>HC RECOVERED - lbs./hour</b>				<b>4.25</b>		
<b>TOTAL GROUNDWATER EXTRACTED</b>					<b>12,840</b>	

in of Hg = inches of mercury

scfm = standard cubic feet per minute

\* Concentration data based on laboratory data

ppmv = parts per million by volume

lbs = pounds

gal = gallons

**RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES**  
**Thrifty Oil #049**  
**Oakland, California**

Sample ID	Date/Time Sampled	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MtBE (ug/L)	TBA (ug/L)	TAME (ug/L)
MW-2R	3/22/2010 1010	6,620	75	ND<2.4	772	75	62	ND<52	ND<1.9
MW-2R	3/27/2010 1040	3,190	31	1.7J	178	163	89	1,680	25
MW-4R	3/22/2010 1015	4,860	28	1.4J	233	225	74	ND<5.2	ND<0.19
MW-4R	3/27/2010 1045	3,300	28	3.2J	57	150	186	363	ND<0.19
RW-1R	3/22/2010 1020	8,300	52	ND<2.4	420	949	12	ND<52	ND<1.9
RW-1R	3/27/2010 1055	6,660	37	ND<1.2	ND<1.05	1,720	93	ND<26	ND<0.95

Notes:

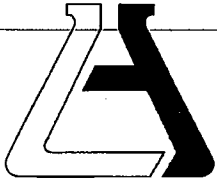
ppmv	= parts per million by volume	Samples analyzed by EPA 8015B / EPA 8260B	MtBE = Methyl tert-Butyl Ether
TPH - g	= total petroleum hydrocarbons - gasoline	TAME = Tert-Amyl Methyl Ether	TBA = tert-Butanol

**CalClean Inc.**

**ATTACHMENT 1**

**LABORATORY REPORTS**





**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 251945

REPORTED 03/29/2010

RECEIVED 03/23/2010

PROJECT Station #049  
3400 San Pablo 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.**

1067626  
1067627  
1067628  
1067629

**Client Sample Identification**

TOTAL INLET  
MW-2R  
MW-4R  
RW-1R

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. Behar, 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 #: 1067626

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOTAL INLET

Date Sampled: 03/22/2010

Time Sampled: 09:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	7.0	100	1.0	Vppm	03/24/10 SW
Ethyl benzene	32	100	1.0	Vppm	03/24/10 SW
Methyl t - butyl ether	26	100	10.0	Vppm	03/24/10 SW
Toluene	120	100	1.0	Vppm	03/24/10 SW
Xylene (total)	33	100	3.0	Vppm	03/24/10 SW
Benzene	22	100	3.0	ug/L	03/24/10 SW
Ethyl benzene	137	100	4.0	ug/L	03/24/10 SW
Methyl t - butyl ether	96	100	36.0	ug/L	03/24/10 SW
Toluene	453	100	4.0	ug/L	03/24/10 SW
Xylene (total)	142	100	13.0	ug/L	03/24/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.537	175	0.175	Vppm	03/27/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.93	175	0.63	ug/L	03/27/10 NZ
------------------------------	------	-----	------	------	-------------

**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	4100	100	500.0	Vppm	03/24/10 SW
Gasoline	17100	100	2210.0	ug/L	03/24/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1067627

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: MW-2R

Date Sampled: 03/22/2010

Time Sampled: 09:40

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	7.2	100	1.0	Vppm	03/24/10 SW
Ethyl benzene	32	100	1.0	Vppm	03/24/10 SW
Methyl t - butyl ether	24	100	10.0	Vppm	03/24/10 SW
Toluene	65	100	1.0	Vppm	03/24/10 SW
Xylene (total)	31	100	3.0	Vppm	03/24/10 SW
Benzene	23	100	3.0	ug/L	03/24/10 SW
Ethyl benzene	141	100	4.0	ug/L	03/24/10 SW
Methyl t - butyl ether	88	100	36.0	ug/L	03/24/10 SW
Toluene	246	100	4.0	ug/L	03/24/10 SW
Xylene (total)	133	100	13.0	ug/L	03/24/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.539	175	0.175	Vppm	03/27/10 NZ
------------------------------	-------	-----	-------	------	-------------

**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.94	175	0.63	ug/L	03/27/10 NZ
------------------------------	------	-----	------	------	-------------

**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	4260	100	500.0	Vppm	03/24/10 SW
Gasoline	17400	100	2210.0	ug/L	03/24/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1067628

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: MW-4R

Date Sampled: 03/22/2010

Time Sampled: 09:50

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	3.7	50	0.5	Vppm	03/24/10 SW
Ethyl benzene	18	50	0.5	Vppm	03/24/10 SW
Methyl t - butyl ether	9.1	50	5.0	Vppm	03/24/10 SW
Toluene	59	50	0.5	Vppm	03/24/10 SW
Xylene (total)	19	50	1.5	Vppm	03/24/10 SW
Benzene	12	50	1.5	ug/L	03/24/10 SW
Ethyl benzene	80	50	2.0	ug/L	03/24/10 SW
Methyl t - butyl ether	33	50	18.0	ug/L	03/24/10 SW
Toluene	222	50	2.0	ug/L	03/24/10 SW
Xylene (total)	83	50	6.5	ug/L	03/24/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.599	175	0.175	Vppm	03/27/10 NZ
------------------------------	-------	-----	-------	------	-------------

**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	2.16	175	0.63	ug/L	03/27/10 NZ
------------------------------	------	-----	------	------	-------------

**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1880	50	250.0	Vppm	03/24/10 SW
Gasoline	7670	50	1105.0	ug/L	03/24/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1067629

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: RW-1R

Date Sampled: 03/22/2010

Time Sampled: 10:00

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	5.8	50	0.5	Vppm	03/24/10 SW
Ethyl benzene	24	50	0.5	Vppm	03/24/10 SW
Methyl t - butyl ether	14	50	5.0	Vppm	03/24/10 SW
Toluene	51	50	0.5	Vppm	03/24/10 SW
Xylene (total)	20	50	1.5	Vppm	03/24/10 SW
Benzene	18	50	1.5	ug/L	03/24/10 SW
Ethyl benzene	105	50	2.0	ug/L	03/24/10 SW
Methyl t - butyl ether	49	50	18.0	ug/L	03/24/10 SW
Toluene	191	50	2.0	ug/L	03/24/10 SW
Xylene (total)	85	50	6.5	ug/L	03/24/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.733	175	0.175	Vppm	03/28/10 NZ
------------------------------	-------	-----	-------	------	-------------

**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	2.64	175	0.63	ug/L	03/28/10 NZ
------------------------------	------	-----	------	------	-------------

**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	3350	50	250.0	Vppm	03/24/10 SW
Gasoline	13700	50	1105.0	ug/L	03/24/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



# Chain of Custody Record

**ASSOCIATED LABORATORIES**

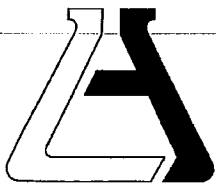
806 North Batavia • Orange, CA 92868  
Phone: (714) 771-6900 • Fax: (714) 538-1209



Company <b>THRIFTY OIL CO</b> Phone _____							A.L. Job No. <b>251945</b>			Page <b>1</b> of <b>1</b>	
Project Manager <b>SIMON TREGURTHA</b> Fax _____							Analysis Requested			Test Instructions & Comments	
Project Name <b>TOC #049</b> Project # _____											
Site Name and Address <b>OAKLAND, CA</b>							<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHG (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX / MTBE 80213</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MTBE (82608) Confirmation if detectable</div> </div>				
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.					
1	TOTAL IN LET	3/22/10	0930	AIR	TEDLAR	NONE					
2	MW-2R	↓	0940	↓	↓	↓					
3	MW-AR	↓	0950	↓	↓	↓					
4	RW-1R	↓	1000	↓	↓	↓					
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers	Properly Cooled Y/N/NA			Signature: <i>Noelshenoi</i>	Signature:			Signature:	
Custody Seals Y/N/NA	Samples Intact Y/N/NA			Printed Name:	Printed Name:			Printed Name:	
Received in Good Condition Y/N	Samples Accepted Y/N			Date: <b>3/23/10</b> Time:	Date:	Time:	Date:	Time:	
Turn Around Time				Received By: 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: <i>Steve Hill</i>	Signature:			Signature:	
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name: <i>Steve Hill</i>	Printed Name:			Printed Name:	
				Date: <b>3-23-10</b> Time: <b>11:27</b>	Date:	Time:	Date:	Time:	

email  
noelshenoi



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 251946

REPORTED 03/29/2010

RECEIVED 03/23/2010

PROJECT Station #049  
3400 San Pablo 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.

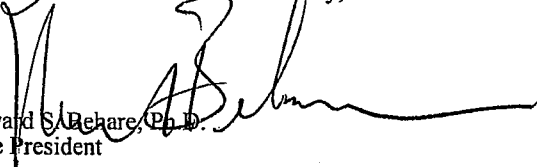
1067630  
1067631  
1067632  
1067633

Client Sample Identification

TOC #049 MW-2R  
TOC #049 MW-4R  
TOC #049 RW-1R  
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.

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 1067630

Client Sample ID: TOC #049 MW-2R

Matrix: WATER

Date Sampled: 03/22/2010 Time Sampled: 10:10

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

Benzene	75	10.0	10.0	1.8	ug/L	03/24/10 RP
Di-isopropyl ether (DIPE)	ND	10.0	10.0	2.0	ug/L	03/24/10 RP
Ethanol	ND	10.0	5000.0	1000.0	ug/L	03/24/10 RP
Ethyl benzene	772	10.0	50.0	2.1	ug/L	03/24/10 RP
Ethyl-tertbutylether (ETBE)	ND	10.0	10.0	2.3	ug/L	03/24/10 RP
Methyl-tert-butylether (MTBE)	62	10.0	10.0	1.9	ug/L	03/24/10 RP
Tert-amylmethylether (TAME)	ND	10.0	10.0	1.9	ug/L	03/24/10 RP
Tertiary butyl alcohol (TBA)	ND	10.0	100.0	52.0	ug/L	03/24/10 RP
Toluene	ND	10.0	50.0	2.4	ug/L	03/24/10 RP
Xylenes, total	75	10.0	50.0	4.5	ug/L	03/24/10 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	104	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104	%	70 - 135
Surr3 - Toluene-d8	98	%	70 - 135
Surr4 - p-Bromofluorobenzene	93	%	70 - 135

**8015B - Gasoline**

Gasoline	6620	10.0	500.0	66.0	ug/L	03/26/10 LT
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**Surrogates**

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

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





Order #: 1067631

Client Sample ID: TOC #049 MW-4R

Matrix: WATER

Date Sampled: 03/22/2010 Time Sampled: 10:15

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

Benzene	28	1.0	1	0.18	ug/L	03/26/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	03/26/10 RP
Ethanol	ND	1.0	500	100	ug/L	03/26/10 RP
Ethyl benzene	233	1.0	5	0.21	ug/L	03/26/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	03/26/10 RP
Methyl-tert-butylether (MTBE)	74	1.0	1	0.19	ug/L	03/26/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	03/26/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	03/26/10 RP
Toluene	1.4J	1.0	5	0.24	ug/L	03/26/10 RP
Xylenes, total	225	1.0	5	0.45	ug/L	03/26/10 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	91	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
Surr3 - Toluene-d8	96	%	70 - 135
Surr4 - p-Bromofluorobenzene	117	%	70 - 135

**8015B - Gasoline**

Gasoline	4860	8.0	400.0	52.8	ug/L	03/24/10 LT
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**Surrogates**

		Units	Control Limits
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

**ASSOCIATED LABORATORIES**

Analytical Results Report

Lab Request 251946 results, page 2 of 4



<b>Order #:</b> 1067632	<b>Client Sample ID:</b> TOC #049 RW-1R
<b>Matrix:</b> WATER	<b>Date Sampled:</b> 03/22/2010 <b>Time Sampled:</b> 10:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	52	10.0	10.0	1.8	ug/L	03/24/10 RP
Di-isopropyl ether (DIPE)	ND	10.0	10.0	2.0	ug/L	03/24/10 RP
Ethanol	ND	10.0	5000.0	1000.0	ug/L	03/24/10 RP
Ethyl benzene	420	10.0	50.0	2.1	ug/L	03/24/10 RP
Ethyl-tertbutylether (ETBE)	ND	10.0	10.0	2.3	ug/L	03/24/10 RP
Methyl-tert-butylether (MTBE)	12	10.0	10.0	1.9	ug/L	03/24/10 RP
Tert-amylmethylether (TAME)	ND	10.0	10.0	1.9	ug/L	03/24/10 RP
Tertiary butyl alcohol (TBA)	ND	10.0	100.0	52.0	ug/L	03/24/10 RP
Toluene	ND	10.0	50.0	2.4	ug/L	03/24/10 RP
Xylenes, total	949	10.0	50.0	4.5	ug/L	03/24/10 RP

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	105	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	105	%	70 - 135
Surr3 - Toluene-d8	103	%	70 - 135
Surr4 - p-Bromofluorobenzene	101	%	70 - 135

<b>8015B - Gasoline</b>						
Gasoline	8300	10.0	500.0	66.0	ug/L	03/24/10 LT
<b>Surrogates</b>						
p-Bromofluorobenzene (Sur)	106				%	60 - 140

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



<b>Order #:</b> 1067633	<b>Client Sample ID:</b> Laboratory Method Blank					
<b>Matrix:</b> WATER						
<b>Analyte</b>	<b>Result</b>	<b>DF</b>	<b>PQL</b>	<b>MDL</b>	<b>Units</b>	<b>Date/Analyst</b>

**8260B BTEX/MTBE**

Benzene	ND	1.0	1	0.18 ug/L	03/24/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	03/24/10 RP
Ethanol	ND	1.0	500	100 ug/L	03/24/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	03/24/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	03/24/10 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	03/24/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	03/24/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	03/24/10 RP
Toluene	ND	1.0	5	0.24 ug/L	03/24/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	03/24/10 RP

<b>Surrogates</b>		<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	105	%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	103	%	70 - 135
Surr3 - Toluene-d8	107	%	70 - 135
Surr4 - p-Bromofluorobenzene	98	%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6 ug/L	03/24/10 LT
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<b>Surrogates</b>		<b>Units</b>	<b>Control Limits</b>
p-Bromofluorobenzene (Sur)	83	%	60 - 140

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





**Chain of Custody Record**

251946

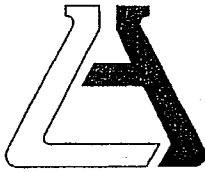
Page 1 of 1

Company <b>THRIFTY OIL CO</b>				Phone				A.L. Job No.				
Project Manager <b>SIMON TREGURTHA</b>				Fax				Analysis Requested				
Project Name <b>TOC # 049</b>				Project #				Test Instructions & Comments  (8015) TPHG (82608) BTEX + XYS + ETHANOL				
Site Name and Address <b>OAKLAND, CA</b>												
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.						
1	MW-2R	3/22/10	1010	W	4 VOA	HCl	X	X				
2	MW-2R	↓	1015	↓	↓	↓	↓	↓				
3	RW-1R	↓	1020	↓	↓	↓	↓	↓				
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers	Properly Cooled Y/N/NA			Signature: <i>Nollshrein</i>	Signature:			Signature:	
Custody Seals Y/N/NA	Samples Intact Y/N/NA			Printed Name:	Printed Name:			Printed Name:	
Received In Good Condition Y/N	Samples Accepted Y/N			Date: 3/23/10	Time:	Date:	Time:	Date:	Time:
Turn Around Time				Received By: 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: <i>[Signature]</i>	Signature:			Signature:	
<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.			Printed Name: <i>[Signature]</i>	Printed Name:			Printed Name:	
				Date: 3-23-10	Time: 11:27	Date:	Time:	Date:	Time:

email  
nollshrein



**ASSOCIATED LABORATORIES**

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

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST**

**Section 1**  
 Client: 70c Project: 70c # 649  
 Date Received: 3-23-10 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: \_\_\_\_\_  
 (Acceptance range is 2 to 6 Deg. C.)

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

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

**Section 4**  
 Explanations/Comments

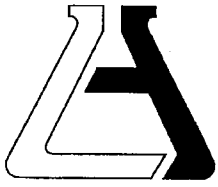
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**Section 5**  
 Was Project Manager notified of discrepancies: Y /  N/A

Completed By: Henry A Date: 3-23-10



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 252154

REPORTED 04/01/2010

RECEIVED 03/26/2010

PROJECT Station #049  
3400 San Pablo Ave., Oakland

SUBMITTER Client

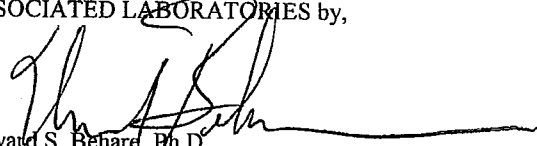
COMMENTS

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
1068701	TOC #049 TOTAL INLET
1068702	TOC #049 MW-2R
1068703	TOC #049 RW-1R
1068704	TOC #049 MW-4R
1068705	TOC #049 TOTAL INLET
1068706	TOC #049 MW-2R
1068707	TOC #049 RW-1R
1068708	TOC #049 MW-4R

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.

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 1068701

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 TOTAL INLET

Date Sampled: 03/24/2010

Time Sampled: 09:00

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	5.1	50	0.5	Vppm	03/26/10 SW
Ethyl benzene	26	50	0.5	Vppm	03/26/10 SW
Methyl t - butyl ether	11	50	5.0	Vppm	03/26/10 SW
Toluene	24	50	0.5	Vppm	03/26/10 SW
Xylene (total)	38	50	1.5	Vppm	03/26/10 SW
Benzene	16	50	1.5	ug/L	03/26/10 SW
Ethyl benzene	115	50	2.0	ug/L	03/26/10 SW
Methyl t - butyl ether	39	50	18.0	ug/L	03/26/10 SW
Toluene	91	50	2.0	ug/L	03/26/10 SW
Xylene (total)	167	50	6.5	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.32	313	0.3125	Vppm	03/29/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.16	313	1.125	ug/L	03/29/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1920	50	250.0	Vppm	03/26/10 SW
Gasoline	7830	50	1105.0	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068702

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-2R

Date Sampled: 03/24/2010

Time Sampled: 09:10

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	5.7	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	30	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	10	25	2.5	Vppm	03/26/10 SW
Toluene	25	25	0.25	Vppm	03/26/10 SW
Xylene (total)	26	25	0.75	Vppm	03/26/10 SW
Benzene	18	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	130	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	37	25	9.0	ug/L	03/26/10 SW
Toluene	93	25	1.0	ug/L	03/26/10 SW
Xylene (total)	114	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.44	313	0.3125	Vppm	03/29/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.60	313	1.125	ug/L	03/29/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	2310	25	125.0	Vppm	03/26/10 SW
Gasoline	9440	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report





Order #: 1068703

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 RW-1R

Date Sampled: 03/24/2010

Time Sampled: 09:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	6.1	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	20	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	19	25	2.5	Vppm	03/26/10 SW
Toluene	26	25	0.25	Vppm	03/26/10 SW
Xylene (total)	34	25	0.75	Vppm	03/26/10 SW
Benzene	20	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	85	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	70	25	9.0	ug/L	03/26/10 SW
Toluene	99	25	1.0	ug/L	03/26/10 SW
Xylene (total)	149	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	ND	313	0.3125	Vppm	03/29/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	ND	313	1.125	ug/L	03/29/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	2170	25	125.0	Vppm	03/26/10 SW
Gasoline	8890	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068704

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-4R

Date Sampled: 03/24/2010

Time Sampled: 09:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	4.7	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	16	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	15	25	2.5	Vppm	03/26/10 SW
Toluene	21	25	0.25	Vppm	03/26/10 SW
Xylene (total)	26	25	0.75	Vppm	03/26/10 SW
Benzene	15	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	69	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	54	25	9.0	ug/L	03/26/10 SW
Toluene	79	25	1.0	ug/L	03/26/10 SW
Xylene (total)	111	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.20	175	0.175	Vppm	03/30/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	0.72	175	0.63	ug/L	03/30/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1850	25	125.0	Vppm	03/26/10 SW
Gasoline	7560	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068705

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 TOTAL INLET

Date Sampled: 03/25/2010

Time Sampled: 09:00

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	5.0	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	19	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	9.8	25	2.5	Vppm	03/26/10 SW
Toluene	20	25	0.25	Vppm	03/26/10 SW
Xylene (total)	27	25	0.75	Vppm	03/26/10 SW
Benzene	16	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	84	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	35	25	9.0	ug/L	03/26/10 SW
Toluene	74	25	1.0	ug/L	03/26/10 SW
Xylene (total)	117	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.34	175	0.175	Vppm	03/30/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.21	175	0.63	ug/L	03/30/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1670	25	125.0	Vppm	03/26/10 SW
Gasoline	6840	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068706

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-2R

Date Sampled: 03/25/2010

Time Sampled: 09:10

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	6.0	25	0.25	Vppm	03/26/10 NZ
Ethyl benzene	25	25	0.25	Vppm	03/26/10 NZ
Methyl t - butyl ether	10	25	2.5	Vppm	03/26/10 NZ
Toluene	22	25	0.25	Vppm	03/26/10 NZ
Xylene (total)	25	25	0.75	Vppm	03/26/10 NZ
Benzene	19	25	0.75	ug/L	03/26/10 NZ
Ethyl benzene	107	25	1.0	ug/L	03/26/10 NZ
Methyl t - butyl ether	38	25	9.0	ug/L	03/26/10 NZ
Toluene	84	25	1.0	ug/L	03/26/10 NZ
Xylene (total)	110	25	3.25	ug/L	03/26/10 NZ

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.48	313	0.3125	Vppm	03/30/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.73	313	1.125	ug/L	03/30/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	2100	25	125.0	Vppm	03/26/10 NZ
Gasoline	8580	25	552.5	ug/L	03/26/10 NZ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068707

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 RW-1R

Date Sampled: 03/25/2010

Time Sampled: 09:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	5.4	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	19	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	14	25	2.5	Vppm	03/26/10 SW
Toluene	24	25	0.25	Vppm	03/26/10 SW
Xylene (total)	34	25	0.75	Vppm	03/26/10 SW
Benzene	17	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	83	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	51	25	9.0	ug/L	03/26/10 SW
Toluene	90	25	1.0	ug/L	03/26/10 SW
Xylene (total)	150	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.55	313	0.3125	Vppm	03/29/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.98	313	1.125	ug/L	03/29/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1900	25	125.0	Vppm	03/26/10 SW
Gasoline	7790	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1068708

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-4R

Date Sampled: 03/25/2010

Time Sampled: 09:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	4.7	25	0.25	Vppm	03/26/10 SW
Ethyl benzene	19	25	0.25	Vppm	03/26/10 SW
Methyl t - butyl ether	13	25	2.5	Vppm	03/26/10 SW
Toluene	21	25	0.25	Vppm	03/26/10 SW
Xylene (total)	32	25	0.75	Vppm	03/26/10 SW
Benzene	15	25	0.75	ug/L	03/26/10 SW
Ethyl benzene	84	25	1.0	ug/L	03/26/10 SW
Methyl t - butyl ether	48	25	9.0	ug/L	03/26/10 SW
Toluene	81	25	1.0	ug/L	03/26/10 SW
Xylene (total)	139	25	3.25	ug/L	03/26/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	ND	313	0.3125	Vppm	03/30/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	ND	313	1.125	ug/L	03/30/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1960	25	125.0	Vppm	03/26/10 SW
Gasoline	8000	25	552.5	ug/L	03/26/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 252140-662  
 Matrix: AIR  
 Prep. Date : March 26, 2010  
 Analysis Date: March 26, 2010  
 Lab ID#'s in Batch: 252095, 252140, 252184, 252154

REPORTING UNITS = Vppm

**SAMPLE DUPLICATE RESULT**

<b>Test</b>	<b>Method</b>	<b>Sample Result</b>	<b>Sample Duplicate</b>	<b>%RPD</b>
Gas	8015M	244.77	239.23	2
Benzene	8021B	1.74	1.73	1
Toluene	8021B	2.68	2.66	1
Ethylbenzene	8021B	0.96	0.97	1
Xylenes	8021B	3.46	3.33	4

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%
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**ASSOCIATED LABORATORIES  
QA REPORT FORM**

Method : 8260 AIR  
QC Sample: 252092-337  
Matrix: Air  
Analysis Date: 3/29/2010 - 3/30/2010  
Lab ID#'s in Batch: 252092, 252154, 252112, 252940, 252202,

REPORTING UNITS = Vppb

**SAMPLE DUPLICATE RESULT**

<b>Test</b>	<b>Sample Result</b>	<b>Sample Duplicate</b>	<b>%RPD</b>
Toluene	31,135	30,745	1
Ethyl benzene	11,441	11,649	2
m,p-Xylenes	38,801	38,766	0
o-Xylene	10,306	10,231	1

*ND = "U" - Not Detected*

*RPD = Relative Percent Difference of Sample Result and Sample Duplicate*

<i>RPD LIMITS = 20%</i>
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ASSOCIATED LABORATORIES  
QA REPORT FORM

Method : 8260 AIR  
QC Sample: 252186-934  
Matrix: Air  
Analysis Date: 3/30/2010 - 3/31/2010  
Lab ID#'s in Batch: 252154, 252186,  
REPORTING UNITS = Vppb

**SAMPLE DUPLICATE RESULT**

<b>Test</b>	<b>Sample Result</b>	<b>Sample Duplicate</b>	<b>%RPD</b>
Toluene	12,943	13,052	1
Ethyl benzene	4,053	4,000	1
m,p-Xylenes	11,242	11,126	1
o-Xylene	3,864	3,745	3

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

# Chain of Custody Record

**ASSOCIATED LABORATORIES**

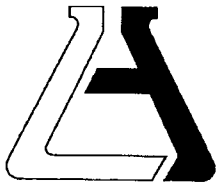
806 North Batavia ■ Orange, CA 92868  
Phone: (714) 771-6900 ■ Fax: (714) 538-1209



Company <b>THRIFTY OIL CO</b> Phone _____						A.L. Job No. <b>252154</b>		Page <b>1</b> of <b>1</b>			
Project Manager <b>SIMON TREGURTHA</b> Fax _____						Analysis Requested			Test Instructions & Comments		
Project Name <b>TOC # 049</b> Project # _____											
Site Name and Address <b>OAKLAND, CA</b>						<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH G (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX + MTBE (8021)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MTBE (82608) confirmations if detectable</div> </div>					
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size						Pres.
1	TOTAL INLET	3/24/10	0900	AIR	TEDLAR						NONE
2	MW-2R		0910								
3	RW-1R		0920								
4	MW-AR		0930								
5	TOTAL INLET	3/25/10	0900								
6	MW-2R		0910								
7	RW-1R		0920								
8	MW-AR		0930								
9											
10											
11											
12											
13											
14											
15											

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by 1. Sampler: _____		Relinquished by 2. _____		Relinquished by 3. _____	
Total Number of Containers _____		Properly Cooled Y/N/NA _____		Signature: <i>Noel Shemi</i>		Signature: _____		Signature: _____	
Custody Seals Y/N/NA _____		Samples Intact Y/N/NA _____		Printed Name: _____		Printed Name: _____		Printed Name: _____	
Received in Good Condition Y/N _____		Samples Accepted Y/N _____		Date: <b>3/26/10</b> Time: _____		Date: _____ Time: _____		Date: _____ Time: _____	
<b>Turn Around Time</b>				Received By: 1. _____		Received By: 2. _____		Received By: 3. _____	
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 72 hrs.				Signature: <i>Henry Huid</i>		Signature: _____		Signature: _____	
				Printed Name: _____		Printed Name: _____		Printed Name: _____	
				Date: <b>3-26-10</b> Time: <b>11:45</b>		Date: _____ Time: _____		Date: _____ Time: _____	

*email  
noelshemi*



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 252235

REPORTED 04/07/2010

RECEIVED 03/29/2010

PROJECT Station #049  
3400 San Pablo 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.

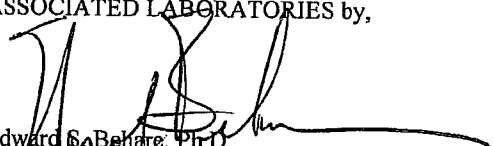
Client Sample Identification

1069114  
1069115  
1069116  
1069117

TOC #049 Total Inlet  
TOC #049 MW-2R  
TOC #049 MW-4R  
TOC #049 RW-1R

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.*

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 1069114

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 Total Inlet

Date Sampled: 03/27/2010

Time Sampled: 12:00

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	5.2	25	0.25	Vppm	03/30/10 SW
Ethyl benzene	27	25	0.25	Vppm	03/30/10 SW
Methyl t - butyl ether	17	25	2.5	Vppm	03/30/10 SW
Toluene	20	25	0.25	Vppm	03/30/10 SW
Xylene (total)	40	25	0.75	Vppm	03/30/10 SW
Benzene	16	25	0.75	ug/L	03/30/10 SW
Ethyl benzene	116	25	1.0	ug/L	03/30/10 SW
Methyl t - butyl ether	62	25	9.0	ug/L	03/30/10 SW
Toluene	75	25	1.0	ug/L	03/30/10 SW
Xylene (total)	176	25	3.25	ug/L	03/30/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.28	175	0.175	Vppm	04/03/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.0	175	0.63	ug/L	04/03/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1570	25	125.0	Vppm	03/30/10 SW
Gasoline	6420	25	552.5	ug/L	03/30/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1069115

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-2R

Date Sampled: 03/27/2010

Time Sampled: 12:10

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	5.5	25	0.25	Vppm	03/30/10 SW
Ethyl benzene	26	25	0.25	Vppm	03/30/10 SW
Methyl t - butyl ether	15	25	2.5	Vppm	03/30/10 SW
Toluene	20	25	0.25	Vppm	03/30/10 SW
Xylene (total)	27	25	0.75	Vppm	03/30/10 SW
Benzene	18	25	0.75	ug/L	03/30/10 SW
Ethyl benzene	113	25	1.0	ug/L	03/30/10 SW
Methyl t - butyl ether	55	25	9.0	ug/L	03/30/10 SW
Toluene	76	25	1.0	ug/L	03/30/10 SW
Xylene (total)	119	25	3.25	ug/L	03/30/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.53	175	0.175	Vppm	04/01/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	1.9	175	0.63	ug/L	04/01/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1580	25	125.0	Vppm	03/30/10 SW
Gasoline	6470	25	552.5	ug/L	03/30/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1069116

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 MW-4R

Date Sampled: 03/27/2010

Time Sampled: 12:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<b>8021B BTEX/MTBE in Air - (Vppm &amp; ug/L)</b>					
Benzene	4.4	25	0.25	Vppm	03/30/10 SW
Ethyl benzene	21	25	0.25	Vppm	03/30/10 SW
Methyl t - butyl ether	16	25	2.5	Vppm	03/30/10 SW
Toluene	16	25	0.25	Vppm	03/30/10 SW
Xylene (total)	34	25	0.75	Vppm	03/30/10 SW
Benzene	14	25	0.75	ug/L	03/30/10 SW
Ethyl benzene	92	25	1.0	ug/L	03/30/10 SW
Methyl t - butyl ether	57	25	9.0	ug/L	03/30/10 SW
Toluene	61	25	1.0	ug/L	03/30/10 SW
Xylene (total)	149	25	3.25	ug/L	03/30/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	ND	100	0.1	Vppm	04/01/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	ND	100	0.36	ug/L	04/01/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1260	25	125.0	Vppm	03/30/10 SW
Gasoline	5150	25	552.5	ug/L	03/30/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1069117

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: TOC #049 RW-1R

Date Sampled: 03/27/2010

Time Sampled: 12:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**8021B BTEX/MTBE in Air - (Vppm & ug/L)**

Benzene	4.8	25	0.25	Vppm	03/30/10 SW
Ethyl benzene	23	25	0.25	Vppm	03/30/10 SW
Methyl t - butyl ether	19	25	2.5	Vppm	03/30/10 SW
Toluene	20	25	0.25	Vppm	03/30/10 SW
Xylene (total)	56	25	0.75	Vppm	03/30/10 SW
Benzene	15	25	0.75	ug/L	03/30/10 SW
Ethyl benzene	100	25	1.0	ug/L	03/30/10 SW
Methyl t - butyl ether	68	25	9.0	ug/L	03/30/10 SW
Toluene.....	74	25	1.0	ug/L	03/30/10 SW
Xylene (total)	241	25	3.25	ug/L	03/30/10 SW

**8260B Oxygenates in Air - (1 of 2)**

Methyl t- butyl ether (MTBE)	0.18	100	0.1	Vppm	04/02/10 NZ
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**8260B Oxygenates in Air - (2 of 2)**

Methyl t- butyl ether (MTBE)	0.66	100	0.36	ug/L	04/02/10 NZ
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**8015B - Gasoline in Air - (Vppm & ug/L)**

Gasoline	1430	25	125.0	Vppm	03/30/10 SW
Gasoline	5860	25	552.5	ug/L	03/30/10 SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**

Analytical Results Report



ASSOCIATED LABORATORIES  
QA REPORT FORM

QC Sample: 252235-117  
Matrix: AIR  
Prep. Date : March 30, 2010  
Analysis Date: March 30, 2010  
Lab ID#'s in Batch: 252235, 252203, 252250, 252252, 252305, 252303

REPORTING UNITS = Vppm

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
Gas	8015M	1,433.85	1,475.13	3
Benzene	8021B	4.80	4.91	2
Toluene	8021B	19.75	20.50	4
Ethylbenzene	8021B	23.15	23.82	3
Xylenes	8021B	55.55	57.07	3

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%



**ASSOCIATED LABORATORIES  
QA REPORT FORM**

Method : 8260 AIR

QC Sample: 252202-034

Matrix: Air

Analysis Date: 3/31/2010 - 4/1/2010

Lab ID#'s in Batch: 252202, 252305, 252395, 252283, 252349, 252294, 252304, 252235

REPORTING UNITS = Vppb

**SAMPLE DUPLICATE RESULT**

<b>Test</b>	<b>Sample Result</b>	<b>Sample Duplicate</b>	<b>%RPD</b>
Toluene	5,059	5,065	0
Ethyl benzene	1,325	1,351	2
m,p-Xylenes	3,791	3,843	1
o-Xylene	1,734	1,719	1

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

**RPD LIMITS = 20%**

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

Method : 8260 AIR

QC Sample: 252305-420

Matrix: Air

Analysis Date: 4/02/2010 - 4/3/2010

Lab ID#'s in Batch: 252235, 252315, 252305, 252283, 252317, 252398, 252348,

REPORTING UNITS = Vppb

**SAMPLE DUPLICATE RESULT**

<b>Test</b>	<b>Sample Result</b>	<b>Sample Duplicate</b>	<b>%RPD</b>
Toluene	2,551	2,556	0
Ethyl benzene	2,576	2,575	0
m,p-Xylenes	7,401	7,849	6
o-Xylene	2,429	2,551	5

*ND = "U" - Not Detected*

*RPD = Relative Percent Difference of Sample Result and Sample Duplicate*

<b>RPD LIMITS = 20%</b>
-------------------------

# Chain of Custody Record

**ASSOCIATED LABORATORIES**

806 North Batavia ■ Orange, CA 92868  
Phone: (714) 771-6900 ■ Fax: (714) 538-1209



Company <u>THRIFTY OIL CO</u> Phone _____							A.L. Job No. _____		Page <u>1</u> of <u>1</u>		
Project Manager <u>SIMON TREGURTHA</u> Fax _____							Analysis Requested			Test Instructions & Comments	
Project Name <u>TOC #049</u> Project # _____											
Site Name and Address <u>OAKLAND, CA</u>							TPHG (8015) BTEX + MTBE (8021) MTBE (8260B) confirmation of date/time				
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.					
<u>1</u> TOTAL INLET		<u>3/27/10</u>	<u>1200</u>	<u>AIR</u>	<u>TEDLAR</u>	<u>NONE</u>					
<u>2</u> MW-2R		↓	<u>1210</u>	↓	↓	↓					
<u>3</u> MW-AR		↓	<u>1220</u>	↓	↓	↓					
<u>4</u> RW-1R		↓	<u>1230</u>	↓	↓	↓					
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1.	Relinquished by 2.	Relinquished by 3.
Total Number of Containers <u>4</u>	Properly Cooled <u>Y/N/NA</u>	Samples Intact <u>Y/N/NA</u>	Samples Accepted <u>Y/N</u>	Signature: <u>Noelshemi</u>	Signature:	Signature:
Custody Seals <u>Y/N/NA</u>	Received in Good Condition <u>Y/N</u>	Date: <u>3/29/10</u>	Time: _____	Printed Name:	Printed Name:	Printed Name:
Turn Around Time				Received By: <u>ASL</u> 1.	Received By: 2.	Received By: 3.
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: _____	Signature:	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name: <u>Juan Montoya</u>	Printed Name:	Printed Name:
		Date: <u>3/29/10</u>	Time: <u>13:23</u>	Date: _____	Date: _____	Date: _____

email  
noelshemi



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 252240

REPORTED 04/07/2010

RECEIVED 03/29/2010

PROJECT Station #049  
3400 San Pablo Ave., Oakland

SUBMITTER Client

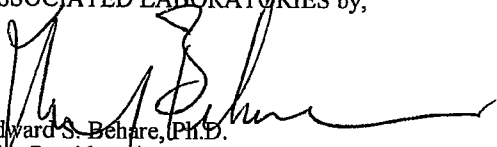
COMMENTS

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
1069128	TOC #049 MW-2R
1069129	TOC #049 MW-4R
1069130	TOC #049 RW-1R
1069131	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.*

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 1069128

Client Sample ID: TOC #049 MW-2R

Matrix: WATER

Date Sampled: 03/27/2010 Time Sampled: 10:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	31	1.0	1	0.18	ug/L	04/02/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	04/02/10 RP
Ethanol	ND	1.0	500	100	ug/L	04/02/10 RP
Ethyl benzene	178	1.0	5	0.21	ug/L	04/02/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	04/02/10 RP
Methyl-tert-butylether (MTBE)	89	1.0	1	0.19	ug/L	04/02/10 RP
Tert-amylmethylether (TAME)	25	1.0	1.0	0.19	ug/L	04/02/10 RP
Tertiary butyl alcohol (TBA)	1680	1.0	10	5.2	ug/L	04/02/10 RP
Toluene	1.7J	1.0	5	0.24	ug/L	04/02/10 RP
Xylenes, total	163	1.0	5	0.45	ug/L	04/02/10 RP
<b>Surrogates</b>						
				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	94			%	70 - 135	
Surr2 - 1,2-Dichloroethane-d4	98			%	70 - 135	
Surr3 - Toluene-d8	98			%	70 - 135	
Surr4 - p-Bromofluorobenzene	107			%	70 - 135	
<b>8015B - Gasoline</b>						
Gasoline	3190	10.0	500.0	66.0	ug/L	03/30/10 LT
<b>Surrogates</b>						
				<b>Units</b>	<b>Control Limits</b>	
p-Bromofluorobenzene (Sur)	99			%	60 - 140	

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

**ASSOCIATED LABORATORIES**

Analytical Results Report

Lab Request 252240 results, page 1 of 4



Order #: 1069129

Client Sample ID: TOC #049 MW-4R

Matrix: WATER

Date Sampled: 03/27/2010 Time Sampled: 10:45

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	28	1.0	1	0.18	ug/L	04/02/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	04/02/10 RP
Ethanol	ND	1.0	500	100	ug/L	04/02/10 RP
Ethyl benzene	57	1.0	5	0.21	ug/L	04/02/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	04/02/10 RP
Methyl-tert-butylether (MTBE)	186	1.0	1	0.19	ug/L	04/02/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	04/02/10 RP
Tertiary butyl alcohol (TBA)	363	1.0	10	5.2	ug/L	04/02/10 RP
Toluene	3.2J	1.0	5	0.24	ug/L	04/02/10 RP
Xylenes, total	150	1.0	5	0.45	ug/L	04/02/10 RP
<b>Surrogates</b>						
Surr1 - Dibromofluoromethane	85				Units	Control Limits
Surr2 - 1,2-Dichloroethane-d4	101				%	70 - 135
Surr3 - Toluene-d8	100				%	70 - 135
Surr4 - p-Bromofluorobenzene	120				%	70 - 135
<b>8015B - Gasoline</b>						
Gasoline	3300	5.0	250.0	33.0	ug/L	03/30/10 LT
<b>Surrogates</b>						
p-Bromofluorobenzene (Sur)	102				Units	Control Limits
					%	60 - 140

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



Order #: 1069130

Client Sample ID: TOC #049 RW-1R

Matrix: WATER

Date Sampled: 03/27/2010 Time Sampled: 10:55

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE</b>						
Benzene	37	5.0	5.0	0.9	ug/L	04/02/10 RP
Di-isopropyl ether (DIPE)	ND	5.0	5.0	1.0	ug/L	04/02/10 RP
Ethanol	ND	5.0	2500.0	500.0	ug/L	04/02/10 RP
Ethyl-tertbutylether (ETBE)	ND	5.0	25.0	1.05	ug/L	04/02/10 RP
Methyl-tert-butylether (MTBE)	93	5.0	5.0	0.95	ug/L	04/02/10 RP
Tert-amylmethylether (TAME)	ND	5.0	5.0	0.95	ug/L	04/02/10 RP
Tertiary butyl alcohol (TBA)	ND	5.0	50.0	26.0	ug/L	04/02/10 RP
Toluene	ND	5.0	25.0	1.2	ug/L	04/02/10 RP
Xylenes, total	1720	5.0	25.0	2.25	ug/L	04/02/10 RP
<b>Surrogates</b>						
					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	110				%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	101				%	70 - 135
Surr3 - Toluene-d8	107				%	70 - 135
Surr4 - p-Bromofluorobenzene	120				%	70 - 135
<b>8015B - Gasoline</b>						
Gasoline	6660	10.0	500.0	66.0	ug/L	03/30/10 LT
<b>Surrogates</b>						
					<b>Units</b>	<b>Control Limits</b>
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 #: 1069131

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	04/02/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20	ug/L	04/02/10 RP
Ethanol	ND	1.0	500	100	ug/L	04/02/10 RP
Ethyl benzene	ND	1.0	5	0.21	ug/L	04/02/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23	ug/L	04/02/10 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19	ug/L	04/02/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19	ug/L	04/02/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2	ug/L	04/02/10 RP
Toluene	ND	1.0	5	0.24	ug/L	04/02/10 RP
Xylenes, total	ND	1.0	5	0.45	ug/L	04/02/10 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	110			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 135
Surr3 - Toluene-d8	103			%	70 - 135
Surr4 - p-Bromofluorobenzene	90			%	70 - 135

**8015B - Gasoline**

Gasoline	ND	1.0	50	6.6	ug/L	03/30/10 LT
----------	----	-----	----	-----	------	-------------

**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





**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G5-LCS&LCSD

Matrix: WATER

Prep. Date: March 30, 2010

Analysis Date 3/30/10-3/31/10

Lab ID#'s in Batch: 252166 , 252240 , 252249 , 252248 , 252265 , 252266 , 252253 .

**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	438	437	88	87	0

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	93
LCS	95
LCSD	96

BFB = *p*-Bromofluorobenzene

# ASSOCIATED LABORATORIES

## QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample*      252363-741  
 Date Prepared: April 1, 2010  
 Date Analyzed: 4/1-4/2/10  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 252241, 252363, 252309, 252310, 252247, 252240, 252352, 252362

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	56.10	53.70	112	107	4	22	59 - 172
MTBE	0.00	50.0	53.60	44.30	107	89	19	24	62 - 137
Benzene	0.00	50.0	54.40	50.30	109	101	8	24	62 - 137
Trichloroethene	0.00	50.0	45.90	42.90	92	86	7	21	66 - 142
Toluene	0.00	50.0	53.90	47.70	108	95	12	21	59 - 139
Chlorobenzene	0.00	50.0	52.30	45.80	105	92	13	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	52.50	105	59 - 172
MTBE	50.0	46.60	93	62 - 137
Benzene	50.0	50.60	101	62 - 137
Trichloroethene	50.0	40.40	81	66 - 142
Toluene	50.0	48.90	98	59 - 139
Chlorobenzene	50.0	60.40	121	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	105	110	112	102	99	70 - 135
1,2-Dichloroethane-d4	107	104	112	102	95	70 - 135
Toluene-d8	103	103	103	113	101	70 - 135
p-Bromofluorobenzene	95	90	110	111	112	70 - 135

# ASSOCIATED LABORATORIES

## QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: *MS/MSD Water Sample*    252450-956  
 Date Prepared: April 2, 2010  
 Date Analyzed: 4/2-4/3/10  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 252240, 252270, 252179, 252396, 252327, 252450

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	60.60	56.90	121	114	6	22	59 - 172
MTBE	0.00	50.0	60.60	55.60	121	111	9	24	62 - 137
Benzene	0.00	50.0	53.50	50.90	107	102	5	24	62 - 137
Trichloroethene	0.00	50.0	53.90	52.20	108	104	3	21	66 - 142
Toluene	0.00	50.0	52.40	50.40	105	101	4	21	59 - 139
Chlorobenzene	0.00	50.0	50.90	48.30	102	97	5	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	56.10	112	59 - 172
MTBE	50.0	55.40	111	62 - 137
Benzene	50.0	51.20	102	62 - 137
Trichloroethene	50.0	53.40	107	66 - 142
Toluene	50.0	51.10	102	59 - 139
Chlorobenzene	50.0	50.10	100	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	91	93	99	97	99	70 - 135
1,2-Dichloroethane-d4	111	110	115	115	112	70 - 135
Toluene-d8	101	102	105	104	103	70 - 135
p-Bromofluorobenzene	101	95	96	98	99	70 - 135

# Chain of Custody Record

**ASSOCIATED LABORATORIES**

806 North Batavia ■ Orange, CA 92868  
 Phone: (714) 771-6900 ■ Fax: (714) 538-1209



252240  
 Page 1 of 1

Company <b>THRIFTY OIL CO</b>				Phone				A.L. Job No.			
Project Manager <b>SIMON TREGURTHA</b>				Fax				Analysis Requested			
Project Name <b>TOC# 049</b>				Project #				Test Instructions & Comments			
Site Name and Address <b>OAKLAND, CA</b>											
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size		Pres.	TPHG (8015) BTEX + OXYS + ETANOL (826015)			
1 MW-2R		3/27/10	1040	W	4	VOA	HCl				
2 MW-4R		↓	1045	↓	4	↓	↓				
3 RW-1R		↓	1055	↓	4	↓	↓				
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers	12	Properly Cooled	(Y) N / NA	Signature:	Nollshewer		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:	3/29/10	Time:	13:19	Date:	
Turn Around Time				Received By:	ASL 1.		Received By:	2.	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	[Signature]		Signature:		
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:	Sean Montoya		Printed Name:	[Signature]	
				Date:	3-29-10	Time:	13:19	Date:	3-29-10
							Time:	14:50	

email nollshewer



# ASSOCIATED LABORATORIES

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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: TOC Project: \_\_\_\_\_  
 Date Received: 3-29-00 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: 2.0  
 (Acceptance range is 2 to 6 Deg. C.)

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

\*: 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/A

Completed By: Henry A Date: 3-29-00

**CalClean Inc.**

**ATTACHMENT 2**

**HIGH VACUUM DUAL PHASE EXTRACTION SYSTEM  
FIELD DATA SHEETS**

HIGH VACUUM

SVE or  DPE

FIELD DATA SHEET

CALCLEAN, INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/22/2010

Page 1 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

					EXTRACTION WELLS									OBSERVATION WELLS								Water Meter Readings	Cumul. Water Extracted
Well I.D.					MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		units	gals		
Screen Interval: From-To (ft)					5 - 20			5 - 20			5 - 20			5 - 25		5 - 25		4 - 14					
Initial Depth To Water DTW (ft)					3.35			3.70			3.50			4.10		4.85		4.15					
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On	DTW Well Head (ft)	Stinger Depth (feet)	Off/On	DTW Well Head (ft)	Stinger Depth (feet)	Off/On	DTW Well Head (ft)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	units	gals
3/22					ON	VAC	16.60	ON	VAC	18.50	ON	VAC	18.00									842930	
0900	23	97	1471			IN "Hg.			IN "Hg.			IN "Hg.											
0930	23	98	1444	3580	2620	8		1980	8		1830	7											
1000	23	97	1406			8			8			7											
					OFF			OFF			OFF												
1030	23	79	1420	3410	ON			ON			ON												
1100	21	126	1446	3280	2780			1510			1240												
1200	19	148	1417	2840	2810	8		1260	8		870	7		4.10	0.00	4.85		4.25					
1300	19	147	1409	2180	2410			1241			890												
1400	19	149	1412	2010	2340	8		1222	8		945	8											
1500	19	147	1428	1940	2480	DTW		1206	DTW		987	DTW											
1600	19	148	1401	1794	2230	13.50		1195	12.51		1028	8.55		4.28	0.00	4.85		4.43				843890	1060
1700	19	146	1421	1545	2000	VAC		1183	VAC		1135	VAC											
1800	19	149	1406	1608	2050	6		878	8		1038	7											
1900	19	147	1410	1581	1940			940			980												
2000	19	148	1420	1452	1806	7		1180	8		835	7											
2100	19	149	1410	1439	1758			1187			860												
2200	19	147	810	1428	1778	7		1194	8		840	8											
2300	19	146	820	1410	1698			1199			887												
3/23																							
0001	19	148	804	1398	1687	16.70		1203	18.75		936	17.80		4.57	0.00	4.98		4.79				845740	2910

Comments: 3/22/10 @ 0930 TOTAL INLET VAPOR SAMPLE (3580 ppmv) @ 0940 VAPOR SAMPLE MW-2R (2620 ppmv) @ 0950 VAPOR SAMPLE MW-4R (1980 ppmv) @ 1000 VAPOR SAMPLE RW-1R (1830 ppmv) @ 1010 GW SAMPLE MW-2R @ 1015 GW SAMPLE MW-4R @ 1020 GW SAMPLE RW-1R @ 2130 CHANGED TO CAT-CELL MODE

**HIGH VACUUM**

SVE or  DPE

**FIELD DATA SHEET**

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/23/2010

Page 2 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

**EXTRACTION WELLS**

**OBSERVATION WELLS**

Time	Well I.D.				MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		Water Meter Readings	Cumul. Water Extracted		
	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	DTW Well Head	Stinger Depth	Off/On	DTW Well Head	Stinger Depth	Off/On	DTW Well Head	Stinger Depth	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)			units	gals
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)				
3/23					ON	VAC 20.00	16.00	ON	VAC 20.00	18.50	ON	VAC 20.00	18.00							842830	0		
0100	20	135	814	1369	1650			1705			950												
0200	20	137	827	1312	1628	6		1220	7		978	7											
0300	20	134	840	1268	1575			1245			991												
0400	20	138	810	1243	1587	6		1268	6		1012	7											
0500	20	136	832	1257	1536			1258			1034												
0600	20	138	816	1210	1487	6		1261	5		1068	6											
0700	20	135	810	1230	1466			1267			1053												
0800	20	136	824	1190	1450	15.40		1275	18.80		1064	17.90		4.89	0.00	5.12		5.19		847410	4580		
0900	20	137	810	1184	1451	VAC 6		1230	VAC 5		1034	VAC 6											
1000	20	135	835	1173	1458	7		1210	6		1027	7											
1100	20	136	826	1161	1467			1178			1010												
1200	20	137	830	1159	1471	7		1151	7		970	7								848040	5610		
1300	19	148	818	1170	1498			1210			1020												
1400	19	146	828	1193	1510	7		1248	6		1110	7											
1500	19	145	838	1211	1540			1380			1192												
1600	19	148	828	1206	1520	16.10		1360	18.85		1186	17.95		5.08	0.00	5.31		5.50		848500			
1700	19	147	830	1268	1507			1397			1210												
1800	19	148	841	1310	1494	6		1415	6		1238	7											
1900	19	146	810	1364	1471			1430			1280												
2000	19	148	829	1393	1456	6		1488	5		1358	7								849000	6170		

Comments:



# HIGH VACUUM SVE or DPE FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/23/2010

Page 3 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

		EXTRACTION WELLS											OBSERVATION WELLS								Water Meter Readings	Cumul. Water Extracted	
Well I.D.		MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		units	gals					
Screen Interval: From-To (ft)		5 - 20			5 - 20			5 - 20			5 - 25		5 - 25		4 - 14								
Initial Depth To Water DTW (ft)		3.35			3.70			3.50			4.10		4.85		4.15								
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DIW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DIW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DIW Well Head (ft)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)		
3/23					ON	VAC 20 Hg	16:00	ON	VAC 20 Hg	18:50	ON	VAC 20 Hg	18:00									842830	0
2100	19	146	810	1387	1450			1480			1340												
2200	19	149	808	1380	1446	6		1466	6		1331	7											
2300	19	148	790	1361	1437			1436			1310												
3/24																							
0001	19	147	781	1354	1421	16:30		1420	18.75		1301	17.96		5.20	0.00	5.41	5.68					849580	6750
0100	19	146	774	1366	1403			1401			1297												
0200	19	147	789	1340	1387	6		1396	6		1281	6											
0300	19	148	790	1321	1376			1371			1263												
0400	19	145	802	1328	1379	6		1376	6		1251	6											
0500	19	146	771	1313	1380			1368			1244												
0600	19	147	787	1296	1367	5		1359	6		1231	5											
0700	19	148	772	1299	1357			1350			1230												
0800	19	146	748	1306	1361	16:40		1328	18.87		1280	18.01		5.40	0.00	5.50	5.81					850170	7340
0900	19	147	760	1300	1370			1290			1340												
1000	19	148	777	1329	1358	7		1310	7		1348	6											
1100	19	147	786	1375	1316			1260			1412												
1200	19	146	785	1341	1320	7		1328	7		1386	6										850530	7700
1300	18	156	777	1356	1360			1310			1391												
1400	18	158	787	1362	1378	7		1290	6		1401	7											
1500	18	157	783	1378	1414			1270			1398											850790	

Comments: 3/24/10 @ 0900 VAPOR SAMPLE TOTAL INLET (1300 ppmv) @ 0910 VAPOR SAMPLE MW-2R (1370 ppmv) @ 0920 VAPOR SAMPLE RW-1R (1340 ppmv) @ 0930 VAPOR SAMPLE MW-4R (1290 ppmv)

HIGH VACUUM

SVE or  DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/24/2010

Page 4 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

					EXTRACTION WELLS									OBSERVATION WELLS								Water Meter Readings	Cumul. Water Extracted	
Well I.D.					MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		units	gals			
Screen Interval: From-To (ft)					5 - 20			5 - 20			5 - 20			5 - 25		5 - 25		4 - 14						
Initial Depth To Water DTW (ft)					3.35			3.70			3.50			4.10		4.85		4.15						
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)			
3/24					ON	VRC 20 Hg	16.00	ON	VRC 20 Hg	18.50	ON	VRC 20 Hg	18.00										842830	
1600	18	156	784	1370	1419	16.48		1280	16.51		1390	18.00		5.51	0.00	5.61		6.00						
1700	18	157	796	1378	1510			1243			1320													
1800	18	156	784	1364	1530	4		1178	5		1283	4												
1900	18	158	782	1360	1560			1150			1240												851080	
2000	18	157	791	1372	1540	4		1175	5		1280	4											851110	8290
2100	18	159	787	1351	1526			1178			1275													
2200	18	158	767	1348	1510	4		1180	5		1271	4												
2300	18	157	789	1321	1501			1176			1264													
3/25																								
0001	18	159	801	1298	1497	16.37		1151	18.42		1274	17.95		5.62	0.00	5.70		6.10						
0100	18	158	810	1272	1471			1168			1281													
0200	18	157	804	1253	1458	5		1165	6		1286	5												
0300	18	156	789	1246	1467			1169			1289													
0400	18	158	786	1235	1448	6		1173	7		1284	6												
0500	18	157	806	1206	1456			1162			1290													
0600	18	158	801	1191	1434	6		1170	7		1293	6												
0700	18	156	804	1165	1416			1173			1298													
0800	18	158	795	1146	1401	16.48		1178	18.30		1310	17.89		5.70	0.00	5.75		6.20					852060	9230
0900	18	157	780	1140	1400			1180			1320													
1000	17	167	768	1110	1378	5		1156	6		1260	5												

Comments: 3/25/10 @ 0900 VAPOR SAMPLE TOTAL INLET (1140 ppmv) @ 0910 VAPOR SAMPLE MW-2R (1400 ppmv) @ 0920 VAPOR SAMPLE RW-1R (1320 ppmv) @ 0930 VAPOR SAMPLE MW-4R (1180 ppmv)

HIGH VACUUM

SVE or  DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/25/2010

Page 5 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

		EXTRACTION WELLS											OBSERVATION WELLS								Water Meter Readings	Cumul. Water Extracted	
Well I.D.		MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		units	gals					
Screen Interval: From-To (ft)		5 - 20			5 - 20			5 - 20			5 - 25		5 - 25		4 - 14								
Initial Depth To Water DTW (ft)		3.35			3.70			3.50			4.10		4.85		4.15								
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW WELL HEAD (#)	Stinger Depth (feet)	Off/On (ppmv)	DTW WELL HEAD (#)	Stinger Depth (feet)	Off/On (ppmv)	DTW WELL HEAD (#)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	units	gals
3/25					ON	VAC IN Hg	16.00	ON	VAC IN Hg	18.50	ON	VAC IN Hg	18.00									842830	0
1100	17	166	779	1104	1330			1120			1228												
1200	17	165	763	1096	1290	5		1096	6		1180	5										852980	10150
1300	17	166	777	1110	1298			1119			1196												
1400	17	167	787	1098	1310	4		1106	6		1210	6											
1500	17	168	768	1126	1336			1114			1258												
1600	17	167	759	1107	1340	16.48		1121	18.65		1290	18.10		5.75	0.00	5.85		6.25				853200	
1700	17	166	810	1168	1316			1070			1270												
1800	17	169	819	1205	1280	5		1010	6		1250	6										853280	
1900	17	168	814	1126	1243			1036			1210												
2000	17	165	811	1071	1222	4		1006	4		1160	4										853480	10650
2100	17	166	801	1076	1190			980			1142												
2200	17	167	798	1082	1181	4		997	4		1126	5											
2300	17	166	778	1096	1186			976			1080												
3/26																							
0001	17	168	769	1110	1174	16.60		970	18.50		1061	18.00		5.80	0.00	5.90		6.27				853790	10960
0100	17	169	748	1128	1168			962			1043												
0200	17	167	797	1139	1162	3		968	4		1011	4											
0300	17	166	747	1142	1180			953			994												
0400	17	168	769	1128	1168	3		956	5		987	4											
0500	17	167	761	1110	1151			940			966												

Comments:

HIGH VACUUM

SVE or

DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/26/2010

Page 6 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

EXTRACTION WELLS

OBSERVATION WELLS

Time	EXTRACTION WELLS														OBSERVATION WELLS				Water Meter Readings	Cumul. Water Extracted			
	Well I.D.																						
	Screen Interval: From-To (ft)																						
	Initial Depth To Water DTW (ft)																						
Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	units	gals	
3/26				ON	VAC IN Hg	16.00	ON	VAC IN Hg	18.50	ON	VAC IN Hg	18.00										842830	0
0600	17	166	739	1128	1162	3		948	5		957	4											
0700	17	168	758	1113	1158	3		941	5		962	4											
0800	17	167	738	1140	1175	16.67		930	18.60		970	18.10	/	5.85	0.00	5.95	/	6.30				854100	11270
0900	17	168	810	1110	1161			948			1040												
1000	17	165	820	1120	1133	5		928	6		1112	5											
1100	17	166	745	1098	1121			935			1187												
1200	17	165	739	1048	1165	7		910	7		1192	5										854320	
1300	17	168	760	1056	1176			940			1200												
1400	17	166	740	1112	1148	6		956	6		1235	6											
1500	17	167	810	1140	1167	5		948	6		1198	6											
1600	17	169	829	1210	1175	16.48		935	18.42		1227	17.97	/	5.90	0.00	6.00	/	6.35				854410	
1700	17	166	810	1160	1170			921			1201												
1800	17	165	798	1148	1161	5		918	6		1189	6											
1900	17	167	767	1152	1149			911			1210												
2000	17	168	830	1120	1150	6		909	6		1224	5										854690	11860
2100	17	167	810	1098	1145			907			1202												
2200	17	166	798	1089	1120	5		912	5		1178	5											
2300	17	165	787	1070	1110			905			1162												
3/27																							
0001	17	169	804	1078	1098	16.56		906	18.54		1180	18.09	/	5.94	0.00	6.03	/	6.34				854410	

Comments:

HIGH VACUUM

SVE or  DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 3400 SAN PABLO AVENUE

City: OAKLAND

Site #: THRIFTY #049

Date: 3/27/2010

Page 7 of 7

Client: THRIFTY OIL CO.

Operator (s): KEVIN

Supervisor:

From:

To:

				EXTRACTION WELLS									OBSERVATION WELLS								Water Meter Readings	Cumul. Water Extracted	
Well I.D.				MW-2R			MW-4R			RW-1R			MW-1		MW-3		MW-7		units	gals			
Screen Interval: From-To (ft)				5 - 20			5 - 20			5 - 20			5 - 25		5 - 25		4 - 14						
Initial Depth To Water DTW (ft)				3.35			3.70			3.50			4.10		4.85		4.15						
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW Well Head (ft)	Stinger Depth (feet)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	units	gals
3/27					ON	VAC IN Hg	16.00	ON	VAC IN Hg	18.50	ON	VAC IN Hg	18.00									842830	0
0100	17	168	810	10.66	1081			904			1152												
0200	17	166	817	10.71	1083	5		909	6		1177	5											
0300	17	165	798	10.58	1062			906			1087												
0400	17	167	767	10.61	1067	4		908	5		1080	4											
0500	17	168	784	10.47	1038			910			1076												
0600	17	169	812	10.34	1008	4		911	4		1053	4											
0700	17	168	810	10.14	987	3		908	4		1068	3											
0800	17	166	823	10.08	840	16.04		910	18.51		1075	18.04		5.98	0.00	6.05	6.35					855250	12420
0900	17	169	810	10.12	960			889			1036												
1000	17	168	812	10.21	1012	5		912	5		1010	5											
1100	17	167	794	10.10	1087			876			1016												
1200	17	168	801	10.08	1140	6		860	6		1005	6											
						14.50			18.76		17.91			5.99	6.06	6.37						855670	12840

Comments: 3/27/10 @ 1200 VAPOR SAMPLE TOTAL INLET (1008 ppmv) @ 1210 VAPOR SAMPLE MW-2R (1140 ppmv) @ 1220 VAPOR SAMPLE MW-4R (860 ppmv) @ 1230 VAPOR SAMPLE RW-1R (1005 ppmv) @ 1040 GW SAMPLE MW-2R, @ 1045 GW SAMPLE MW-4R, @ 1055 GW SAMPLE RW-1R

# ***ATTACHMENT B***

---

**BLAINE**  
TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

November 4, 2009

Denis Brown  
Shell Oil Products US  
20945 South Wilmington Avenue  
Carson, CA 90810

Fourth Quarter 2009 Groundwater Monitoring at  
Former Shell/Current AmeriGas Service Station  
3420 San Pablo Avenue  
Oakland, CA

Monitoring performed on October 21, 2009

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Groundwater Monitoring Report **091021-FS-1**

This report covers the routine monitoring of groundwater wells at this former Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

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

Mike Ninokata  
Project Manager

MN/np

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheet

cc: Anni Kreml  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608



**WELL CONCENTRATIONS**  
**Former Shell/Current AmeriGas Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	08/06/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	10.86	NA	10.43	NA	NA
MW-1	10/23/1991	32,000	2,700	360	550	3,700	NA	NA	NA	NA	NA	NA	NA	21.28	11.05	NA	10.24	0.01	NA
MW-1	01/28/1992	14,000	1,000	106	450	1,600	NA	NA	NA	NA	NA	NA	NA	21.28	10.84	NA	10.44	NA	NA
MW-1	05/05/1992	98,000	11,000	1,200	3,500	18,000	NA	NA	NA	NA	NA	NA	NA	21.28	9.42	NA	11.86	<0.01	NA
MW-1	07/13/1992	11,000	1,100	130	740	1,300	NA	NA	NA	NA	NA	NA	NA	21.28	11.36	NA	9.92	NA	NA
MW-1	10/12/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	13.14	NA	8.21	0.09	NA
MW-1	01/12/1993	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	7.52	NA	13.78	0.02	NA
MW-1	04/06/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	7.13	NA	14.16	<0.01	NA
MW-1	07/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	11.02	NA	10.27	0.01	NA
MW-1	10/13/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	12.18	NA	9.11	0.01	NA
MW-1	01/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	9.18	NA	12.10	0.01	NA
MW-1	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.28	8.72	NA	12.58	0.02	NA
MW-1	07/19/1994	17,000	420	140	530	1,300	NA	NA	NA	NA	NA	NA	NA	21.28	8.76	NA	12.52	NA	NA
MW-1	10/27/1994	23,000	1,200	130	990	960	NA	NA	NA	NA	NA	NA	NA	21.28	10.49	NA	10.79	NA	NA
MW-1	01/03/1995	31,000	610	160	1,200	5,000	NA	NA	NA	NA	NA	NA	NA	21.28	6.15	NA	15.13	NA	NA
MW-1	04/13/1995	20,000	340	42	680	2,900	NA	NA	NA	NA	NA	NA	NA	21.28	5.24	NA	16.04	NA	NA
MW-1	06/30/1995	16,000	450	62	460	1,200	NA	NA	NA	NA	NA	NA	NA	21.28	7.24	NA	14.04	NA	NA
MW-1	10/11/1995	8,400	660	47	510	850	8,000	NA	NA	NA	NA	NA	NA	21.28	9.48	NA	11.80	NA	NA
MW-1	10/13/1995	7,400	730	54	490	1,100	8,200	NA	NA	NA	NA	NA	NA	21.28	NA	NA	NA	NA	NA
MW-1	01/17/1996	24,000	570	110	820	2,900	15,000	NA	NA	NA	NA	NA	NA	21.28	6.48	NA	14.80	NA	NA
MW-1	04/10/1996	20,000	120	11	420	1,400	15,000	NA	NA	NA	NA	NA	NA	21.28	5.38	NA	15.90	NA	NA
MW-1	07/30/1996	7,900	240	22	170	300	12,000	NA	NA	NA	NA	NA	NA	21.28	7.61	NA	13.67	NA	NA
MW-1	10/17/1996	6,600	1,000	20	120	130	10,000	NA	NA	NA	NA	NA	NA	21.28	8.66	NA	12.62	NA	1.4
MW-1	01/22/1997	13,000	170	<50	330	1,200	18,000	NA	NA	NA	NA	NA	NA	21.28	5.00	NA	16.28	NA	1.6
MW-1	04/01/1997	7,900	240	26	130	200	6,400	NA	NA	NA	NA	NA	NA	21.28	6.42	NA	14.86	NA	1.4
MW-1	07/14/1997	5,000	<20	<20	59	61	9,000	NA	NA	NA	NA	NA	NA	21.28	8.92	NA	12.36	NA	1.9
MW-1	10/08/1997	3,200	180	7.6	18	6.1	11,000	NA	NA	NA	NA	NA	NA	21.28	9.43	NA	11.85	NA	4.8
MW-1	01/19/1998	8,100	39	<20	280	660	1,100	NA	NA	NA	NA	NA	NA	21.28	1.20	NA	20.08	NA	2.6
MW-1	04/28/1998	2,900	62	<10	160	370	1,200	1,200	NA	NA	NA	NA	NA	21.28	4.81	NA	16.47	NA	2.4
MW-1	09/30/1998	1,300	25	8.3	<5.0	12	2,000	NA	NA	NA	NA	NA	NA	21.05	9.90	NA	11.15	NA	1.6
MW-1	12/09/1998	21,000	240	<200	520	920	18,000	18,000	NA	NA	NA	NA	NA	21.05	12.26	NA	8.79	NA	4.3
MW-1	01/18/1999	10,600	<100	<100	471	130	48,600	50,800	NA	NA	NA	NA	NA	21.05	6.00	NA	15.05	NA	1.3
MW-1	04/12/1999	7,500	101	26.0	248	578	31,000	37,900	NA	NA	NA	NA	NA	21.05	4.00	NA	17.05	NA	1.2

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	07/27/1999	5,420	80.1	<50.0	123	143	24,700	33,200*	NA	NA	NA	NA	NA	21.05	6.18	NA	14.87	NA	1.3
MW-1	10/14/1999	3,750	75.8	<12.5	30.3	37.0	17,200	20,600	NA	NA	NA	NA	NA	21.05	6.83	NA	14.22	NA	1.3
MW-1	01/06/2000	5,550	82.2	<5.00	128	45.4	9,410	8,200	NA	NA	NA	NA	NA	21.05	6.36	NA	14.69	NA	1.3
MW-1	04/05/2000	2,860	50.6	<10.0	98.2	36.2	4,120	3,150*	NA	NA	NA	NA	NA	21.05	3.65	NA	17.40	NA	2.0
MW-1	07/20/2000	3,600	37.9	36.0	34.2	40.4	3,140	3,430*	NA	NA	NA	NA	NA	21.05	4.11	NA	16.94	NA	1.2
MW-1	10/24/2000	2,330	32.3	<10.0	10.5	27.1	4,900	4,500	NA	NA	NA	NA	NA	21.05	5.18	NA	15.87	NA	1.4
MW-1	01/19/2001	2,000	25.9	24.9	12.5	29.7	2,610	3,070	NA	NA	NA	NA	NA	32.01	3.90	NA	28.11	NA	1.8
MW-1	04/27/2001	2,200	14	<2.0	5.3	6.8	NA	1,100	NA	NA	NA	NA	NA	32.01	4.48	NA	27.53	NA	1.5
MW-1	07/26/2001	2,600	26	2.3	<2.0	5.4	NA	890	NA	NA	NA	NA	NA	32.01	6.28	NA	25.73	NA	1.2
MW-1	10/02/2001	1,900	54	<2.0	7.8	14	NA	890	<2.0	<2.0	<2.0	450	<500	32.01	6.53	NA	25.48	NA	1.6
MW-1	01/15/2002	2,300	19	2.8	9.3	12	NA	370	NA	NA	NA	NA	NA	32.01	5.00	NA	27.01	NA	1.9
MW-1	04/17/2002	4,500	20	2.0	1.3	4.6	NA	500	NA	NA	NA	NA	NA	32.01	5.63	NA	26.38	NA	2.4
MW-1	07/11/2002	2,700	25	1.1	<1.0	2.1	NA	500	NA	NA	NA	NA	NA	32.01	6.10	NA	25.91	NA	1.5
MW-1	10/10/2002	2,200	20	1.0	1.8	3.5	NA	580	NA	NA	NA	NA	NA	32.01	6.68	NA	25.33	NA	2.5
MW-1	01/21/2003	3,100	27	12	30	14	NA	810	NA	NA	NA	NA	NA	32.01	4.35	NA	27.66	NA	1.7
MW-1	05/02/2003	4,100	36	<25	<25	<50	NA	1,000	NA	NA	NA	NA	NA	32.01	5.19	NA	26.82	NA	2.1
MW-1	07/10/2003	1,900	37	<12	<12	<25	NA	600	NA	NA	NA	NA	NA	32.01	5.61	NA	26.40	NA	NA
MW-1	10/28/2003	4,300	97	<10	10	<20	NA	1,800	NA	NA	NA	NA	NA	32.01	5.78	NA	26.23	NA	NA
MW-1	01/13/2004	3,000	53	10	29	<10	NA	510	NA	NA	NA	NA	NA	32.01	4.95	NA	27.06	NA	NA
MW-1	04/01/2004	3,000	85	29	11	15	NA	310	NA	NA	NA	NA	NA	32.01	5.05	NA	26.96	NA	NA
MW-1	07/21/2004	3,200	130	19	7.7	18	NA	410	<20	<20	<20	1,100	NA	32.01	5.90	NA	26.11	NA	NA
MW-1	10/20/2004	3,600	200	8.4	12	21	NA	320	NA	NA	NA	NA	NA	32.01	5.63	NA	26.38	NA	NA
MW-1	01/19/2005	2,800	55	<5.0	21	17	NA	170	NA	NA	NA	NA	NA	32.01	4.64	NA	27.37	NA	NA
MW-1	04/20/2005	2,600	28	<5.0	11	<10	NA	140	NA	NA	NA	NA	NA	32.01	3.75	NA	28.26	NA	NA
MW-1	07/20/2005	2,000	20	<1.0	1.6	2.3	NA	110	<4.0	<4.0	<4.0	220	NA	32.01	6.19	NA	25.82	NA	NA
MW-1	10/19/2005	2,200	21	0.80	2.1	1.9	NA	80	NA	NA	NA	NA	NA	32.01	7.20	NA	24.81	NA	NA
MW-1	01/24/2006	7,000	35.5	2.24	119	17.1	NA	80.2	NA	NA	NA	NA	NA	32.01	4.04	NA	27.97	NA	NA
MW-1	04/19/2006	2,030	10.3	1.04	2.44	<0.500	NA	27.2	NA	NA	NA	NA	NA	32.01	2.74	NA	29.27	NA	NA
MW-1	07/19/2006	4,310	18.1	<0.500	1.48	<0.500	NA	34.8	<0.500	<0.500	<0.500	<10.0	NA	32.01	4.74	NA	27.27	NA	NA
MW-1	10/18/2006	4,370	15.0	0.520	4.73	2.06	NA	49.1	NA	NA	NA	NA	NA	32.01	6.03	NA	25.98	NA	NA
MW-1	01/17/2007	410	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	NA	32.01	5.40	NA	26.61	NA	NA
MW-1	04/18/2007	1,400 h	9.2	0.35 i	0.94 i	0.92 i	NA	37	NA	NA	NA	NA	NA	32.01	6.13	NA	25.88	NA	NA
MW-1	07/18/2007	1,100 h	25	0.34 i	3.4	<1.0	NA	72	<2.0	<2.0	<2.0	63	NA	32.01	7.13	NA	24.88	NA	NA
MW-1	10/18/2007	1,300 h	70	0.85 i	14	1.08 i	NA	160	NA	NA	NA	NA	NA	32.01	7.13	NA	24.88	NA	NA

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MW-1	01/16/2008	4,000 h	22	<1.0	14	3.5	NA	33	NA	NA	NA	NA	NA	32.01	5.02	NA	26.99	NA	NA
MW-1	04/16/2008	1,800	12	<1.0	1.5	1.5	NA	39	NA	NA	NA	NA	NA	32.01	6.26	NA	25.75	NA	NA
MW-1	07/16/2008	1,600	5.3	<1.0	<1.0	<1.0	NA	32	<2.0	<2.0	<2.0	27	NA	32.01	6.60	NA	25.41	NA	NA
MW-1	10/15/2008	1,200	4.1	<1.0	<1.0	<1.0	NA	20	NA	NA	NA	NA	NA	32.01	6.85	NA	25.16	NA	NA
MW-1	01/21/2009	1,300	6.7	<1.0	<1.0	<1.0	NA	28	NA	NA	NA	NA	NA	32.01	6.20	NA	25.81	NA	NA
MW-1	04/15/2009	1,600	4.1	1.2	1.5	<1.0	NA	5.2	NA	NA	NA	NA	NA	32.01	4.90	NA	27.11	NA	NA
MW-1	10/21/2009	5,300	54	2.2	89	3.6	NA	35	<2.0	<2.0	<2.0	20	NA	32.01	5.51	NA	26.50	NA	NA
MW-2	08/06/1991	50,000	15,000	NA	2,700	13,000	NA	NA	NA	NA	NA	NA	NA	21.56	9.72	NA	11.84	NA	NA
MW-2	10/23/1991	120,000	11,000	1,400	3,500	19,000	NA	NA	NA	NA	NA	NA	NA	21.56	10.03	NA	11.53	NA	NA
MW-2	01/28/1992	49,000	7,400	800	1,800	8,300	NA	NA	NA	NA	NA	NA	NA	21.56	8.78	NA	12.78	NA	NA
MW-2	05/05/1992	52,000	12,000	1,100	2,200	12,000	NA	NA	NA	NA	NA	NA	NA	21.56	7.58	NA	13.98	NA	NA
MW-2	07/13/1992	47,000	15,000	2,400	4,500	16,000	NA	NA	NA	NA	NA	NA	NA	21.56	9.63	NA	11.93	NA	NA
MW-2	10/12/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.56	11.66	NA	9.92	0.03	NA
MW-2	01/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.56	7.13	NA	14.44	0.01	NA
MW-2	04/06/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.56	6.40	NA	15.17	<0.01	NA
MW-2	07/12/1993	59,000	12,000	950	2,400	11,000	NA	NA	NA	NA	NA	NA	NA	21.56	8.75	NA	12.81	NA	NA
MW-2	10/13/1993	54,000	14,000	1,200	3,700	22,000	NA	NA	NA	NA	NA	NA	NA	21.56	10.28	NA	11.28	NA	NA
MW-2	01/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.56	NA	NA	NA	NA	NA
MW-2	04/13/1994	79,000	9,400	740	2,100	12,000	NA	NA	NA	NA	NA	NA	NA	21.56	7.35	NA	14.22	<0.01	NA
MW-2	07/19/1994	63,000	13,000	810	1,900	13,000	NA	NA	NA	NA	NA	NA	NA	21.56	8.24	NA	13.32	NA	NA
MW-2	10/27/1994	64,000	8,800	480	2,100	10,000	NA	NA	NA	NA	NA	NA	NA	21.56	10.26	NA	13.32	NA	NA
MW-2	01/03/1995	67,000	9,800	720	2,800	11,000	NA	NA	NA	NA	NA	NA	NA	21.56	6.44	NA	15.12	NA	NA
MW-2	04/13/1995	83,000	10,000	490	2,600	13,000	NA	NA	NA	NA	NA	NA	NA	21.56	5.89	NA	15.67	NA	NA
MW-2	06/30/1995	65,000	12,000	1,800	2,400	12,000	NA	NA	NA	NA	NA	NA	NA	21.56	7.41	NA	14.15	NA	NA
MW-2	10/11/1995	68,000	8,800	840	3,000	13,000	1,400	NA	NA	NA	NA	NA	NA	21.56	8.02	NA	13.54	NA	NA
MW-2	01/17/1996	79,000	12,000	640	2,700	14,000	2,200	NA	NA	NA	NA	NA	NA	21.56	7.42	NA	14.14	NA	NA
MW-2	04/10/1996	84,000	7,200	310	1,700	7,800	2,900	NA	NA	NA	NA	NA	NA	21.56	6.91	NA	14.65	NA	NA
MW-2	07/30/1996	26,000	6,800	210	1,300	5,500	4,500	NA	NA	NA	NA	NA	NA	21.56	7.63	NA	13.93	NA	NA
MW-2	10/17/1996	46,000	9,800	340	2,000	6,500	4,900	NA	NA	NA	NA	NA	NA	21.56	8.27	NA	13.29	NA	1.8
MW-2	01/22/1997	52,000	6,200	220	1,400	6,600	3,000	NA	NA	NA	NA	NA	NA	21.56	7.09	NA	14.47	NA	1.9
MW-2	04/01/1997	69,000	6,000	380	2,400	11,000	3,800	NA	NA	NA	NA	NA	NA	21.56	6.91	NA	14.65	NA	2.0
MW-2	07/14/1997	53,000	7,700	260	1,600	5,200	2,400	NA	NA	NA	NA	NA	NA	21.56	9.93	NA	11.63	NA	1.2
MW-2	10/08/1997	56,000	8,500	320	1,600	5,100	4,200	NA	NA	NA	NA	NA	NA	21.56	10.43	NA	11.13	NA	2.1

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	01/19/1998	64,000	10,000	230	2,400	12,000	2,700	NA	NA	NA	NA	NA	NA	21.56	3.60	NA	17.96	NA	2.4
MW-2	04/28/1998	45,000	9,800	310	2,700	11,000	2,400	2,000	NA	NA	NA	NA	NA	21.56	4.81	NA	15.71	NA	2
MW-2	09/30/1998	42,000	7,400	200	2,600	9,800	1,800	NA	NA	NA	NA	NA	NA	21.58	7.20	NA	14.38	NA	1.6
MW-2	12/09/1998	60,000	7,000	270	1,600	7,000	2,100	NA	NA	NA	NA	NA	NA	21.58	7.11	NA	14.47	NA	4.6
MW-2	01/18/1999	45,000	7,960	151	1,750	6,410	1,310	NA	NA	NA	NA	NA	NA	21.58	6.83	NA	14.75	NA	1.8
MW-2	04/12/1999	47,400	7,680	131	1,840	6,400	<1,000	NA	NA	NA	NA	NA	NA	21.58	5.90	NA	15.68	NA	1.9
MW-2	07/27/1999	36,400	6,750	83.5	1,590	5,070	682	NA	NA	NA	NA	NA	NA	21.58	6.56	NA	15.02	NA	2.0
MW-2	10/14/1999	45,300	6,990	144	1,850	4,930	1,070	NA	NA	NA	NA	NA	NA	21.58	8.90	NA	12.68	NA	1.5
MW-2	01/06/2000	44,100	5,820	107	1,720	4,590	841	NA	NA	NA	NA	NA	NA	21.58	7.27	NA	14.31	NA	1.4
MW-2	04/05/2000	32,000	6,680	<100	1,770	4,030	934	NA	NA	NA	NA	NA	NA	21.58	5.32	NA	16.26	NA	1.3
MW-2	07/20/2000	32,100	5,290	68.6	1,870	3,810	254	NA	NA	NA	NA	NA	NA	21.58	5.47	NA	16.11	NA	2.9
MW-2	10/24/2000	24,400	4,680	<50.0	1,460	2,380	682	NA	NA	NA	NA	NA	NA	21.58	5.88	NA	15.70	NA	2.2
MW-2	01/19/2001	29,200	4,980	127	2,820	4,320	<500	NA	NA	NA	NA	NA	NA	32.54	5.96	NA	26.58	NA	1.4
MW-2	04/27/2001	40,000	5,400	67	2,800	5,100	NA	380	NA	NA	NA	NA	NA	32.54	5.87	NA	26.67	NA	1.1
MW-2	07/26/2001	42,000	4,700	59	2,800	4,300	NA	<250	NA	NA	NA	NA	NA	32.54	6.48	NA	26.06	NA	1.0
MW-2	10/02/2001	36,000	4,200	64	2,400	2,700	NA	<200	NA	NA	NA	NA	NA	32.54	6.65	NA	25.89	NA	1.6
MW-2	01/15/2002	39,000	4,100	46	2,200	2,300	NA	280	NA	NA	NA	NA	NA	32.54	5.81	NA	26.73	NA	1.8
MW-2	04/17/2002	30,000	3,800	44	2,100	2,100	NA	270	NA	NA	NA	NA	NA	32.54	6.03	NA	26.51	NA	1.6
MW-2	07/11/2002	34,000	3,600	18	2,700	2,200	NA	110	NA	NA	NA	NA	NA	32.54	6.49	NA	26.05	NA	2.7
MW-2	10/10/2002	26,000	2,600	19	1,900	810	NA	<100	NA	NA	NA	NA	NA	32.54	6.82	NA	25.72	NA	2.4
MW-2	01/21/2003	30,000	3,000	24	2,000	1,400	NA	140	NA	NA	NA	NA	NA	32.54	6.00	NA	26.54	NA	1.6
MW-2	05/02/2003	23,000	2,800	28	1,400	880	NA	<250	NA	NA	NA	NA	NA	32.54	5.85	NA	26.69	NA	1.7
MW-2	07/10/2003	20,000	3,800	<50	2,500	1,500	NA	180	NA	NA	NA	NA	NA	32.54	6.16	NA	26.38	NA	NA
MW-2	10/28/2003	35,000	5,400	59	2,800	1,400	NA	140	NA	NA	NA	NA	NA	32.54	6.30	NA	26.24	NA	NA
MW-2	01/13/2004	39,000	6,400	55	3,000	1,400	NA	240	NA	NA	NA	NA	NA	32.54	5.93	NA	26.61	NA	NA
MW-2	04/01/2004	29,000	4,200	<50	2,300	1,000	NA	140	NA	NA	NA	NA	NA	32.54	5.99	NA	26.55	NA	NA
MW-2	07/21/2004	43,000	3,900	<50	2,700	860	NA	93	<200	<200	<200	<500	NA	32.54	6.05	NA	26.49	NA	NA
MW-2	10/20/2004	33,000	5,100	<50	2,800	950	NA	97	NA	NA	NA	NA	NA	32.54	6.10	NA	26.44	NA	NA
MW-2	01/19/2005	27,000	3,400	<50	2,000	580	NA	120	NA	NA	NA	NA	NA	32.54	5.41	NA	27.13	NA	NA
MW-2	04/20/2005	37,000	3,400	<50	1,900	580	NA	110	NA	NA	NA	NA	NA	32.54	5.86	NA	26.68	NA	NA
MW-2	07/20/2005	33,000	3,900	<50	2,300	590	NA	86	<200	<200	<200	<500	NA	32.54	8.39	NA	24.15	NA	NA
MW-2	10/19/2005	12,000	2,100	15	1,500	430	NA	80	NA	NA	NA	NA	NA	32.54	7.96	NA	24.58	NA	NA
MW-2	01/24/2006	44,600	3,260	20.3	2,220	458	NA	107	NA	NA	NA	NA	NA	32.54	4.54	NA	28.00	NA	NA
MW-2	04/19/2006	<2,500	2,520	13.2	1,610	343	NA	104	NA	NA	NA	NA	NA	32.54	4.63	NA	27.91	NA	NA

**WELL CONCENTRATIONS**  
**Former Shell/Current AmeriGas Service Station**  
**3420 San Pablo Avenue**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-2	07/19/2006	41,900	2,460	10.9	1,670	322	NA	78.2	<0.500	<0.500	<0.500	<10.0	NA	32.54	5.48	NA	27.06	NA	NA
MW-2	10/18/2006	49,400	2,490	11.0	2,130	320	NA	47.6	NA	NA	NA	NA	NA	32.54	6.50	NA	26.04	NA	NA
MW-2	01/17/2007	16,000	2,200	12	1,600	260	NA	56	NA	NA	NA	NA	NA	32.54	6.19	NA	26.35	NA	NA
MW-2	04/18/2007	22,000 h	2,100	14 i	1,700	289	NA	100	NA	NA	NA	NA	NA	32.54	6.70	NA	25.84	NA	NA
MW-2	07/18/2007	19,000 h	2,100	12 i	2,000	267	NA	61	<40	<40	<40	<200	NA	32.54	7.60	NA	24.94	NA	NA
MW-2	10/18/2007	24,000 h	2,400	17 i	2,200	253	NA	150	NA	NA	NA	NA	NA	32.54	8.55	NA	23.99	NA	NA
MW-2	01/16/2008	26,000 h	2,400	<20	1,600	200	NA	130	NA	NA	NA	NA	NA	32.54	6.08	NA	26.46	NA	NA
MW-2	04/16/2008	20,000	2,100	<20	1,400	180	NA	200	NA	NA	NA	NA	NA	32.54	6.80	NA	25.74	NA	NA
MW-2	07/16/2008	23,000	1,600	<20	84	170	NA	<20	<40	<40	<40	<200	NA	32.54	6.71	NA	25.83	NA	NA
MW-2	10/15/2008	17,000	1,300	<20	820	98	NA	49	NA	NA	NA	NA	NA	32.54	7.60	NA	24.94	NA	NA
MW-2	01/21/2009	26,000	2,000	<20	1,200	130	NA	130	NA	NA	NA	NA	NA	32.54	6.71	NA	25.83	NA	NA
MW-2	04/15/2009	28,000	2,200	<20	1,200	110	NA	220	NA	NA	NA	NA	NA	32.54	6.00	NA	26.54	NA	NA
MW-2	10/21/2009	30,000	1,900	<20	1,200	130	NA	110	<40	<40	<40	<200	NA	32.54	7.12	NA	25.42	NA	NA
MW-3	08/06/1991	430	8	1	4	15	NA	NA	NA	NA	NA	NA	NA	21.78	11.18	NA	10.60	NA	NA
MW-3	10/23/1991	390	2.10	<0.3	0.48	2	NA	NA	NA	NA	NA	NA	NA	21.78	11.69	NA	10.09	NA	NA
MW-3	01/28/1992	190	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	9.99	NA	11.79	NA	NA
MW-3	05/04/1992	190	<1	<1	<1	0.71	NA	NA	NA	NA	NA	NA	NA	21.78	9.46	NA	12.32	NA	NA
MW-3	07/20/1992	200a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	11.29	NA	10.49	NA	NA
MW-3	10/12/1992	180a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	13.10	NA	8.68	NA	NA
MW-3	01/12/1993	180	<0.5	2.3	0.9	5.6	NA	NA	NA	NA	NA	NA	NA	21.78	7.32	NA	14.46	NA	NA
MW-3	04/06/1993	280	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	7.44	NA	14.34	NA	NA
MW-3	07/12/1993	310a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	10.62	NA	11.16	NA	NA
MW-3	10/13/1993	150	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	12.05	NA	9.73	NA	NA
MW-3	01/20/1994	180	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	9.62	NA	12.16	NA	NA
MW-3	04/13/1994	270	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	9.15	NA	12.63	NA	NA
MW-3	07/19/1994	190a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	10.13	NA	11.65	NA	NA
MW-3	10/27/1994	160a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	11.66	NA	10.12	NA	NA
MW-3	01/03/1995	100a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	6.89	NA	14.89	NA	NA
MW-3	04/13/1995	120a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	6.79	NA	14.99	NA	NA
MW-3	06/30/1995	180a	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	21.78	8.94	NA	12.84	NA	NA
MW-3	10/11/1995	150	2.2	<0.5	<0.5	<0.5	2.3	NA	NA	NA	NA	NA	NA	21.78	10.62	NA	11.16	NA	NA
MW-3	01/17/1996	120	<0.5	<0.5	<0.5	<0.5	7.8	NA	NA	NA	NA	NA	NA	21.78	7.18	NA	14.60	NA	NA
MW-3	04/10/1996	160	<0.5	<0.5	<0.5	<0.5	12	NA	NA	NA	NA	NA	NA	21.78	6.76	NA	15.02	NA	NA



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MW-3R	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.9	<2.0	<2.0	<2.0	<5.0	NA	32.79	8.76	NA	24.03	NA	NA
MW-3R	10/19/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	9.87	NA	22.92	NA	NA
MW-3R	01/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	32.79	5.96	NA	26.83	NA	NA
MW-3R	04/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	6.07	NA	26.72	NA	NA
MW-3R	07/19/2006	70.2	<0.500	<0.500	<0.500	<0.500	NA	5.43	<0.500	<0.500	<0.500	<10.0	NA	32.79	8.07	NA	24.72	NA	NA
MW-3R	10/18/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	8.72	NA	24.07	NA	NA
MW-3R	01/17/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	1.1	NA	NA	NA	NA	NA	32.79	7.88	NA	24.91	NA	NA
MW-3R	04/18/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	8.37	NA	24.42	NA	NA
MW-3R	07/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	NA	2.2	<2.0	<2.0	<2.0	<10	NA	32.79	9.80	NA	22.99	NA	NA
MW-3R	01/16/2008	<50 h	<0.50	<1.0	<1.0	<1.0	NA	1.6	<2.0	<2.0	<2.0	<10	NA	32.79	6.65	NA	26.14	NA	NA
MW-3R	04/16/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	8.31	NA	24.48	NA	NA
MW-3R	07/16/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	4.4	<2.0	<2.0	<2.0	<10	NA	32.79	9.33	NA	23.46	NA	NA
MW-3R	10/15/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	10.00	NA	22.79	NA	NA
MW-3R	01/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	3.0	NA	NA	NA	NA	NA	32.79	8.20	NA	24.59	NA	NA
MW-3R	04/15/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.79	7.05	NA	25.74	NA	NA
MW-3R	10/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.8	<2.0	<2.0	<2.0	<10	NA	32.79	7.61	NA	25.18	NA	NA

MW-4	08/06/1991	1,300	28	18	68	150	NA	NA	NA	NA	NA	NA	NA	20.31	10.57	NA	9.74	NA	NA
MW-4	10/23/1991	1,900	97	6.10	38	77	NA	NA	NA	NA	NA	NA	NA	20.31	10.46	NA	9.85	NA	NA
MW-4	01/28/1992	200	7.60	<0.5	3	3.30	NA	NA	NA	NA	NA	NA	NA	20.31	9.54	NA	10.77	NA	NA
MW-4	05/04/1992	690	98	3	13	<1	NA	NA	NA	NA	NA	NA	NA	20.31	8.33	NA	11.98	NA	NA
MW-4	07/13/1992	1,500	140	2.90	17	12	NA	NA	NA	NA	NA	NA	NA	20.31	9.87	NA	10.44	NA	NA
MW-4	10/12/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	12.43	NA	8.50	0.78	NA
MW-4	01/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	7.12	NA	13.99	1.00	NA
MW-4	04/06/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	7.23	NA	13.84	0.95	NA
MW-4	07/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	10.08	NA	10.25	0.03	NA
MW-4	10/13/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	11.35	NA	9.06	0.12	NA
MW-4	01/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	9.06	NA	11.26	0.02	NA
MW-4	04/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	8.58	NA	11.74	0.01	NA
MW-4	07/19/1994	12,000	230	43	230	660	NA	NA	NA	NA	NA	NA	NA	20.31	9.71	NA	10.60	NA	NA
MW-4	10/27/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	10.60	NA	9.73	0.03	NA
MW-4	01/03/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	5.49	NA	14.83	0.01	NA
MW-4	04/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.31	6.53	NA	13.80	0.03	NA
MW-4	06/30/1995	7,400	140	<0.5	160	350	NA	NA	NA	NA	NA	NA	NA	20.31	9.57	NA	10.74	NA	NA





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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-4	04/01/2004	1,400	17	<2.5	<2.5	<5.0	NA	540	NA	NA	NA	NA	NA	31.88	6.40	NA	25.48	NA	NA
MW-4	07/21/2004	3,100	120	<2.5	11	<5.0	NA	900	<10	<10	<10	2,200	NA	31.88	8.23	NA	23.65	NA	NA
MW-4	10/20/2004	3,600	97	<2.5	9.7	<5.0	NA	470	NA	NA	NA	NA	NA	31.88	8.30	NA	23.58	NA	NA
MW-4	01/19/2005	1,600	15	<2.5	<2.5	<5.0	NA	220	NA	NA	NA	NA	NA	31.88	5.83	NA	26.05	NA	NA
MW-4	04/20/2005	1,300	8.8	<2.5	<2.5	<5.0	NA	210	NA	NA	NA	NA	NA	31.88	6.12	NA	25.76	NA	NA
MW-4	07/20/2005	1,600	34	<2.5	3.8	<5.0	NA	280	<10	<10	<10	1,100	NA	31.88	8.35	NA	23.53	NA	NA
MW-4	10/19/2005	2,400	74	1.1	7.2	<2.0	NA	360	NA	NA	NA	NA	NA	31.88	9.25	NA	22.63	NA	NA
MW-4	01/24/2006	3,290	17.2	<0.500	3.02	<0.500	NA	159	NA	NA	NA	NA	NA	31.88	6.32	NA	25.56	NA	NA
MW-4	04/19/2006	430	6.40	<0.500	0.610	<0.500	NA	134	NA	NA	NA	NA	NA	31.88	5.03	NA	26.85	NA	NA
MW-4	07/19/2006	5,020	48.7	0.760	6.67	<0.500	NA	234	<0.500	<0.500	<0.500	582	NA	31.88	7.90	NA	23.98	NA	NA
MW-4	10/18/2006	9,220	48.4	1.07	16.7	4.45	NA	233	NA	NA	NA	NA	NA	31.88	8.68	NA	23.20	NA	NA
MW-4	01/17/2007	1,700	13	<2.5	<2.5	<5.0	NA	120	NA	NA	NA	NA	NA	31.88	7.83	NA	24.05	NA	NA
MW-4	04/18/2007	1,200 h	9.2	0.50 i	1.3	1.13 i	NA	120	NA	NA	NA	NA	NA	31.88	7.99	NA	23.89	NA	NA
MW-4	07/18/2007	2,100 h	21	0.71 i	2.6	1.22 i	NA	150	<2.0	<2.0	<2.0	730	NA	31.88	9.15	NA	22.73	NA	NA
MW-4	10/18/2007	940 h	32	1.2	11	2.57 i	NA	160	NA	NA	NA	NA	NA	31.88	8.64	NA	23.24	NA	NA
MW-4	01/16/2008	2,300 h	8.5	<1.0	<1.0	<1.0	NA	110	NA	NA	NA	NA	NA	31.88	6.98	NA	24.90	NA	NA
MW-4	04/16/2008	1,700	4.2	<1.0	1.0	<1.0	NA	110	NA	NA	NA	NA	NA	31.88	7.98	NA	23.90	NA	NA
MW-4	07/16/2008	3,700	34	1.5	1.3	2.5	NA	150	<2.0	<2.0	<2.0	740	NA	31.88	9.12	NA	22.76	NA	NA
MW-4	10/15/2008	3,700	18	<2.0	7.9	2.2	NA	120	NA	NA	NA	NA	NA	31.88	9.55	NA	22.33	NA	NA
MW-4	01/21/2009	3,000	6.4	<1.0	1.9	1.1	NA	86	NA	NA	NA	NA	NA	31.88	7.90	NA	23.98	NA	NA
MW-4	04/15/2009	2,000	2.2	<1.0	<1.0	<1.0	NA	68	NA	NA	NA	NA	NA	31.88	7.20	NA	24.68	NA	NA
MW-4	10/21/2009	2,600	4.2	<1.0	1.3	<1.0	NA	86	<2.0	<2.0	<2.0	430	NA	31.88	7.45	NA	24.43	NA	NA
MW-5	08/06/1991	9,100	210	27	240	660	NA	NA	NA	NA	NA	NA	NA	20.91	10.23	NA	10.68	NA	NA
MW-5	10/23/1991	12,000	92	18	230	450	NA	NA	NA	NA	NA	NA	NA	20.91	10.89	NA	10.02	NA	NA
MW-5	01/28/1992	3,300	130	10	180	220	NA	NA	NA	NA	NA	NA	NA	20.91	8.45	NA	12.46	NA	NA
MW-5	05/04/1992	3,900	95	<12.5	260	120	NA	NA	NA	NA	NA	NA	NA	20.91	8.05	NA	12.86	NA	NA
MW-5	07/13/1992	4,100	180	12	250	73	NA	NA	NA	NA	NA	NA	NA	20.91	10.00	NA	10.91	NA	NA
MW-5	10/12/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.91	11.83	NA	9.09	0.01	NA
MW-5	01/12/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.91	6.10	NA	14.81	<0.01	NA
MW-5	04/06/1993	6,200	71	<0.5	53	150	NA	NA	NA	NA	NA	NA	NA	20.91	6.18	NA	14.73	NA	NA
MW-5	07/12/1993	3,400	130	<0.5	170	130	NA	NA	NA	NA	NA	NA	NA	20.91	9.59	NA	11.32	NA	NA
MW-5	10/13/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.91	10.80	NA	10.13	0.03	NA
MW-5	01/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.91	7.42	NA	13.49	0.01	NA

















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MW-8	09/30/1998	19,000	370	230	880	3,800	410	NA	NA	NA	NA	NA	NA	21.15	7.00	NA	14.15	NA	1.2
MW-8	12/09/1998	1,400	92	90	74	260	<250	NA	NA	NA	NA	NA	NA	21.15	6.38	NA	14.77	NA	3.6
MW-8	01/18/1999	317	<0.500	<0.500	3.04	0.984	3.92	NA	NA	NA	NA	NA	NA	21.15	1.85	NA	19.30	NA	2.0
MW-8	04/12/1999	8,300	35.6	24.4	144	466	<100	NA	NA	NA	NA	NA	NA	21.15	3.65	NA	17.50	NA	1.6
MW-8	07/27/1999	12,700	<5.00	5.47	281	1,130	50.3	NA	NA	NA	NA	NA	NA	21.15	5.00	NA	16.15	NA	1.4
MW-8	10/14/1999	11,900	86.7	16.9	210	469	<100	NA	NA	NA	NA	NA	NA	21.15	5.95	NA	15.20	NA	1.2
MW-8	01/06/2000	5,930	65	12.4	106	129	203.0	NA	NA	NA	NA	NA	NA	21.15	6.19	NA	14.96	NA	1.3
MW-8	04/05/2000	6,770	100	<50.0	61.3	150	322	NA	NA	NA	NA	NA	NA	21.15	5.14	NA	16.01	NA	2.1
MW-8	07/20/2000	28,900	109	307	119	235	337	NA	NA	NA	NA	NA	NA	21.15	5.21	NA	15.94	NA	2.1
MW-8	10/24/2000	8,620	99.0	12.8	152	366	225	NA	NA	NA	NA	NA	NA	21.15	3.11	NA	18.04	NA	1.0
MW-8	01/19/2001	5,590	49.4	6.50	26.0	57.4	99.5	NA	NA	NA	NA	NA	NA	32.11	5.35	NA	26.76	NA	1.8
MW-8	04/27/2001	3,800	<0.50	<0.50	14	31	NA	<5.0	NA	NA	NA	NA	NA	32.11	4.58	NA	27.53	NA	0.7
MW-8	07/26/2001	4,400	0.88	0.59	7.0	14	NA	<5.0	NA	NA	NA	NA	NA	32.11	5.83	NA	26.28	NA	0.9
MW-8	10/02/2001	1,800	9.8	<0.50	23	16	NA	<5.0	NA	NA	NA	NA	NA	32.11	6.50	NA	25.61	NA	1.2
MW-8	01/15/2002	2,700	1.2	1.5	0.93	1.7	NA	12	NA	NA	NA	NA	NA	32.11	5.07	NA	27.04	NA	1.6
MW-8	04/17/2002	3,200	2.2	<1.0	9.0	14	NA	<10	NA	NA	NA	NA	NA	32.11	3.80	NA	28.31	NA	1.0
MW-8	07/11/2002	6,500	23	1.0	12	19	NA	<10	NA	NA	NA	NA	NA	32.11	6.29	NA	25.82	NA	1.9
MW-8	10/10/2002	1,900	5.3	<0.50	30	33	NA	7.6	NA	NA	NA	NA	NA	32.11	4.32	NA	27.79	NA	2.4
MW-8	01/21/2003	3,700	1.4	<1.0	3.9	6.6	NA	<10	NA	NA	NA	NA	NA	32.11	5.57	NA	26.54	NA	0.6
MW-8	05/02/2003	3,900 d	<5.0	<5.0	<5.0	<10	NA	<50	NA	NA	NA	NA	NA	32.11	1.67	NA	30.44	NA	0.23
MW-8	07/10/2003	2,400	<2.5	<2.5	<2.5	<5.0	NA	<2.5	NA	NA	NA	NA	NA	32.11	3.81	NA	28.30	NA	NA
MW-8	10/28/2003	3,000	<2.5	3.1	4.6	6.1	NA	<2.5	NA	NA	NA	NA	NA	32.11	4.99	NA	27.12	NA	NA
MW-8	01/13/2004	4,600	3.6	<2.5	14	20	NA	2.5	NA	NA	NA	NA	NA	32.11	5.10	NA	27.01	NA	NA
MW-8	04/01/2004	4,200	3.9	<2.5	7.1	8.8	NA	<2.5	NA	NA	NA	NA	NA	32.11	3.32	NA	28.79	NA	NA
MW-8	07/21/2004	3,400	<2.5	<2.5	4.1	<5.0	NA	<2.5	<10	<10	<10	<25	NA	32.11	3.95	NA	28.16	NA	NA
MW-8	10/20/2004	2,300	<2.5	<2.5	<2.5	<5.0	NA	<2.5	NA	NA	NA	NA	NA	32.11	1.48	NA	30.63	NA	NA
MW-8	01/19/2005	2,000	<2.5	<2.5	<2.5	<5.0	NA	<2.5	NA	NA	NA	NA	NA	32.11	5.28	NA	26.83	NA	NA
MW-8	04/20/2005	2,300	<2.5	<2.5	<2.5	<5.0	NA	<2.5	NA	NA	NA	NA	NA	32.11	3.52	NA	28.59	NA	NA
MW-8	07/20/2005	1,500	2.0	0.77	1.4	1.3	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	32.11	5.35	NA	26.76	NA	NA
MW-8	10/19/2005	2,200	4.0	0.96	2.5	3.1	NA	<0.50	NA	NA	NA	NA	NA	32.11	7.80	NA	24.31	NA	NA
MW-8	01/24/2006	5,150	0.600	<0.500	3.33	<0.500	NA	<0.500	NA	NA	NA	NA	NA	32.11	2.18	NA	29.93	NA	NA
MW-9	08/06/1991	11,000	1,700	95	520	1,400	NA	NA	NA	NA	NA	NA	NA	21.19	10.33	NA	10.86	NA	NA
MW-9	10/23/1991	20,000	1,000	47	<0.3	940	NA	NA	NA	NA	NA	NA	NA	21.19	11.13	NA	10.06	NA	NA

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MW-9	01/28/1992	3,500	120	<10	280	36	NA	NA	NA	NA	NA	NA	NA	21.19	9.02	NA	12.17	NA	NA
MW-9	05/04/1992	7,700	1,200	<50	380	630	NA	NA	NA	NA	NA	NA	NA	21.19	7.67	NA	13.52	NA	NA
MW-9	07/20/1992	11,000	910	<50	220	1,200	NA	NA	NA	NA	NA	NA	NA	21.19	10.26	NA	10.93	NA	NA
MW-9	10/12/1992	2,100	340	15	77	44	NA	NA	NA	NA	NA	NA	NA	21.19	12.19	NA	9.00	NA	NA
MW-9	01/12/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	04/06/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	07/12/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.19	NA	NA	NA	NA	NA
MW-9	10/13/1993	2,900	140	<5	<5	120	NA	NA	NA	NA	NA	NA	NA	21.19	11.17	NA	10.02	NA	NA
MW-9	01/20/1994	1,700	380	6.90	150	400	NA	NA	NA	NA	NA	NA	NA	21.19	8.03	NA	13.16	NA	NA
MW-9	04/13/1994	6,000	1,000	<20	450	420	NA	NA	NA	NA	NA	NA	NA	21.19	7.81	NA	13.38	NA	NA
MW-9	07/19/1994	12,000	1,400	<5	740	1,200	NA	NA	NA	NA	NA	NA	NA	21.19	8.96	NA	12.23	NA	NA
MW-9	10/27/1994	10,000	1,200	160	280	860	NA	NA	NA	NA	NA	NA	NA	21.19	11.00	NA	10.19	NA	NA
MW-9	01/03/1995	4,400	680	7.70	180	370	NA	NA	NA	NA	NA	NA	NA	21.19	6.60	NA	14.59	NA	NA
MW-9	04/13/1995	1,700	270	<10	69	170	NA	NA	NA	NA	NA	NA	NA	21.19	6.73	NA	14.46	NA	NA
MW-9	06/30/1995	14,000	2,200	18	900	2,600	NA	NA	NA	NA	NA	NA	NA	21.19	7.32	NA	13.87	NA	NA
MW-9	10/11/1995	9,600	35	12	360	980	590	NA	NA	NA	NA	NA	NA	21.19	8.10	NA	13.09	NA	NA
MW-9	01/17/1996	2,800	150	7.41	54	130	170	NA	NA	NA	NA	NA	NA	21.19	5.75	NA	15.44	NA	NA
MW-9	04/10/1996	5,200	290	<5	92	220	240	NA	NA	NA	NA	NA	NA	21.19	5.17	NA	16.02	NA	NA
MW-9	07/30/1996	5,100	960	<10	380	770	670	NA	NA	NA	NA	NA	NA	21.19	8.10	NA	13.09	NA	NA
MW-9	10/17/1996	15,000	2,100	<25	590	1,300	1,500	NA	NA	NA	NA	NA	NA	21.19	9.12	NA	12.07	NA	2.4
MW-9	01/22/1997	5,600	690	<5.0	140	310	620	NA	NA	NA	NA	NA	NA	21.19	4.72	NA	16.47	NA	2.2
MW-9	04/01/1997	4,000	590	<10	140	200	600	NA	NA	NA	NA	NA	NA	21.19	6.86	NA	14.33	NA	2.2
MW-9	07/14/1997	7,100	860	<10	51	230	950	NA	NA	NA	NA	NA	NA	21.19	10.04	NA	11.15	NA	3.8
MW-9	10/08/1997	1,500	57	<2.0	2.0	13	540	NA	NA	NA	NA	NA	NA	21.19	11.38	NA	9.81	NA	8.2
MW-9	01/19/1998	2,500	280	<20	79	61	620	NA	NA	NA	NA	NA	NA	21.19	3.88	NA	17.31	NA	1.4
MW-9	04/28/1998	2,200	330	<20	91	110	640	NA	NA	NA	NA	NA	NA	21.19	5.87	NA	15.32	NA	1.6
MW-9	09/30/1998	2,800	490	<5.0	87	240	1,200	NA	NA	NA	NA	NA	NA	21.19	8.25	NA	12.94	NA	4.0
MW-9	12/09/1998	3,700	370	<5.0	83	130	1,100	NA	NA	NA	NA	NA	NA	21.19	8.07	NA	13.12	NA	2.9
MW-9	01/18/1999	9,670	1,110	<5.00	442	571	786	NA	NA	NA	NA	NA	NA	21.19	7.54	NA	13.65	NA	3.2
MW-9	04/12/1999	3,140	272	<10.0	41.6	114	542	NA	NA	NA	NA	NA	NA	21.19	5.60	NA	15.59	NA	1.7
MW-9	07/27/1999	3,580	247	<1.00	67.7	137	432	NA	NA	NA	NA	NA	NA	21.19	7.30	NA	13.89	NA	1.6
MW-9	10/14/1999	3,200	199	<10.0	74.1	88.9	468	NA	NA	NA	NA	NA	NA	21.19	7.26	NA	13.93	NA	1.4
MW-9	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	21.19	8.31	NA	12.88	NA	1.5
MW-9	04/05/2000	2,790	156	<5.00	39.1	57.8	399	NA	NA	NA	NA	NA	NA	21.19	5.40	NA	15.79	NA	0.9

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MW-9	07/20/2000	5,530	283	14.9	379	728	92.7	NA	NA	NA	NA	NA	NA	21.19	5.70	NA	15.49	NA	2.1
MW-9	10/24/2000	3,090	110	<5.00	46.4	63.3	362	NA	NA	NA	NA	NA	NA	21.19	5.90	NA	15.29	NA	1.0
MW-9	01/19/2001	6,060	180	<5.00	181	164	231	NA	NA	NA	NA	NA	NA	32.15	5.39	NA	26.76	NA	1.2
MW-9	04/27/2001	2,700	56	<0.50	26	46	NA	150	NA	NA	NA	NA	NA	32.15	5.38	NA	26.77	NA	1.2
MW-9	07/26/2001	4,200	50	<0.50	28	53	NA	180	NA	NA	NA	NA	NA	32.15	6.45	NA	25.70	NA	1.0
MW-9	10/02/2001	11,000	150	<2.0	120	140	NA	180	NA	NA	NA	NA	NA	32.15	6.10	NA	26.05	NA	1.4
MW-9	01/15/2002	1,200	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	32.15	4.77	NA	27.38	NA	1.2
MW-9	04/17/2002	2,200	24	<0.50	26	27	NA	96	NA	NA	NA	NA	NA	32.15	5.57	NA	26.58	NA	0.6
MW-9	07/11/2002	4,600	21	<0.50	17	33	NA	140	NA	NA	NA	NA	NA	32.15	6.64	NA	25.51	NA	2.1
MW-9	10/10/2002	2,800	8.8	<0.50	3.2	9.5	NA	160	NA	NA	NA	NA	NA	32.15	7.41	NA	24.74	NA	2.4
MW-9	01/21/2003	470	1.9	<0.50	1.7	1.1	NA	13	NA	NA	NA	NA	NA	32.15	5.47	NA	26.68	NA	1.0
MW-9	05/02/2003	770	2.9	<0.50	1.5	1.8	NA	82	NA	NA	NA	NA	NA	32.15	5.40	NA	26.75	NA	0.96
MW-9	07/10/2003	1,700	4.9	<2.5	3.0	5.2	NA	100	NA	NA	NA	NA	NA	32.15	6.59	NA	25.56	NA	NA
MW-9	10/28/2003	2,400	<5.0	<5.0	<5.0	<10	NA	180	NA	NA	NA	NA	NA	32.15	6.94	NA	25.21	NA	NA
MW-9	01/13/2004	550	<0.50	0.54	<0.50	<1.0	NA	23	NA	NA	NA	NA	NA	32.15	5.62	NA	26.53	NA	NA
MW-9	04/01/2004	440	<0.50	<0.50	<0.50	<1.0	NA	19	NA	NA	NA	NA	NA	32.15	5.94	NA	26.21	NA	NA
MW-9	07/21/2004	1,100	<0.50	<0.50	<0.50	<1.0	NA	110	<2.0	<2.0	<2.0	34	NA	32.15	6.60	NA	25.55	NA	NA
MW-9	10/20/2004	730	<0.50	<0.50	<0.50	<1.0	NA	56	NA	NA	NA	NA	NA	32.15	4.48	NA	27.67	NA	NA
MW-9	01/19/2005	320	<0.50	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	NA	32.15	4.56	NA	27.59	NA	NA
MW-9	04/20/2005	100	<0.50	0.56	<0.50	<1.0	NA	5.8	NA	NA	NA	NA	NA	32.15	5.21	NA	26.94	NA	NA
MW-9	07/20/2005	400	<0.50	1.4	<0.50	<1.0	NA	45	<2.0	<2.0	<2.0	20	NA	32.15	6.90	NA	25.25	NA	NA
MW-9	10/19/2005	400	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	NA	32.15	7.75	NA	24.40	NA	NA
MW-9	01/24/2006	666	<0.500	3.24	<0.500	<0.500	NA	2.96	NA	NA	NA	NA	NA	32.15	4.64	NA	27.51	NA	NA
MW-9	04/19/2006	<50.0	<0.500	<0.500	0.610	<0.500	NA	28.4	NA	NA	NA	NA	NA	32.15	3.48	NA	28.67	NA	NA
MW-9	07/19/2006	660	<0.500	<0.500	<0.500	<0.500	NA	49.2	<0.500	<0.500	<0.500	<10.0	NA	32.15	5.63	NA	26.52	NA	NA
MW-9	10/18/2006	994	<0.500	<0.500	<0.500	<0.500	NA	39.9	NA	NA	NA	NA	NA	32.15	6.58	NA	25.57	NA	NA
MW-9	01/17/2007	100	<0.50	<0.50	<0.50	<1.0	NA	17	NA	NA	NA	NA	NA	32.15	6.03	NA	26.12	NA	NA
MW-9	04/18/2007	400 h	0.29 i	<1.0	0.41 i	0.36 i	NA	35	NA	NA	NA	NA	NA	32.15	6.51	NA	25.64	NA	NA
MW-9	07/18/2007	320 h	0.17 i	<1.0	<1.0	<1.0	NA	34	<2.0	<2.0	<2.0	24	NA	32.15	6.88	NA	25.27	NA	NA
MW-9	10/18/2007	89 h	1.1	<1.0	0.55 i	<1.0	NA	27	NA	NA	NA	NA	NA	32.15	7.95	NA	24.20	NA	NA
MW-9	01/16/2008	370 h	<0.50	<1.0	<1.0	<1.0	NA	28	NA	NA	NA	NA	NA	32.15	5.90	NA	26.25	NA	NA
MW-9	04/16/2008	120	<0.50	<1.0	<1.0	<1.0	NA	23	NA	NA	NA	NA	NA	32.15	6.52	NA	25.63	NA	NA
MW-9	07/16/2008	360	<0.50	<1.0	<1.0	<1.0	NA	29	<2.0	<2.0	<2.0	21	NA	32.15	7.41	NA	24.74	NA	NA
MW-9	10/15/2008	220	<0.50	<1.0	<1.0	<1.0	NA	24	NA	NA	NA	NA	NA	32.15	7.70	NA	24.45	NA	NA

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MW-9	01/21/2009	200	<0.50	<1.0	<1.0	<1.0	NA	19	NA	NA	NA	NA	NA	32.15	6.59	NA	25.56	NA	NA
MW-9	04/15/2009	68	<0.50	<1.0	<1.0	<1.0	NA	6.0	NA	NA	NA	NA	NA	32.15	5.59	NA	26.56	NA	NA
MW-9	10/21/2009	130	<0.50	<1.0	<1.0	<1.0	NA	15	<2.0	<2.0	<2.0	12	NA	32.15	6.90	NA	25.25	NA	NA
MW-10	10/23/1991	27,000	1,600	110	1,800	510	NA	NA	NA	NA	NA	NA	NA	19.74	8.57	NA	11.17	NA	NA
MW-10	01/28/1992	3,800	360	14	170	39	NA	NA	NA	NA	NA	NA	NA	19.74	7.60	NA	12.14	NA	NA
MW-10	05/04/1992	3,000	360	<12.5	140	26	NA	NA	NA	NA	NA	NA	NA	19.74	7.54	NA	12.20	NA	NA
MW-10	07/20/1992	15,000	400	<25	180	67	NA	NA	NA	NA	NA	NA	NA	19.74	8.59	NA	11.15	NA	NA
MW-10	10/12/1992	16,000	320	<50	360	100	NA	NA	NA	NA	NA	NA	NA	19.74	10.23	NA	9.51	NA	NA
MW-10	01/12/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	04/06/1993	14,000	370	<0.5	880	210	NA	NA	NA	NA	NA	NA	NA	19.74	6.70	NA	13.04	NA	NA
MW-10	07/12/1993	10,000	440	58	890	220	NA	NA	NA	NA	NA	NA	NA	19.74	8.05	NA	11.69	NA	NA
MW-10	10/13/1993	15,000	1,000	51	810	170	NA	NA	NA	NA	NA	NA	NA	19.74	8.25	NA	11.49	NA	NA
MW-10	01/20/1994	12,000	820	56	1,100	350	NA	NA	NA	NA	NA	NA	NA	19.74	7.20	NA	12.54	NA	NA
MW-10	04/13/1994	18,000	760	36	700	130	NA	NA	NA	NA	NA	NA	NA	19.74	7.57	NA	12.17	NA	NA
MW-10	07/19/1994	24,000	400	2.30	800	22	NA	NA	NA	NA	NA	NA	NA	19.74	8.18	NA	11.56	NA	NA
MW-10	10/27/1994	11,000	360	43	310	89	NA	NA	NA	NA	NA	NA	NA	19.74	8.68	NA	11.06	NA	NA
MW-10	01/03/1995	17,000	770	38	690	160	NA	NA	NA	NA	NA	NA	NA	19.74	6.86	NA	12.88	NA	NA
MW-10	04/13/1995	9,900	650	16	280	40	NA	NA	NA	NA	NA	NA	NA	19.74	6.91	NA	12.83	NA	NA
MW-10	06/30/1995	12,000	750	20	480	130	NA	NA	NA	NA	NA	NA	NA	19.74	7.61	NA	12.13	NA	NA
MW-10	01/17/1996	17,000	870	260	93	830	NA	NA	NA	NA	NA	NA	NA	19.74	7.00	NA	12.74	NA	NA
MW-10	04/10/1996	14,000	470	38	110	370	NA	NA	NA	NA	NA	NA	NA	19.74	6.80	NA	NA	NA	NA
MW-10	07/30/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	10/17/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	01/22/1997	10,000	520	<20	64	32	180	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	04/01/1997	11,000	590	<20	53	32	210	NA	NA	NA	NA	NA	NA	19.74	6.68	NA	13.06	NA	3.1
MW-10	07/14/1997	6,600	410	13	28	11	89	NA	NA	NA	NA	NA	NA	19.74	7.34	NA	12.40	NA	2.8
MW-10	10/08/1997	7,600	220	13	65	22	190	NA	NA	NA	NA	NA	NA	19.74	8.10	NA	11.64	NA	1.4
MW-10	01/19/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.74	8.20	NA	11.54	NA	6.4
MW-10	04/28/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.74	NA	NA	NA	NA	NA
MW-10	09/30/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.76	8.11	NA	11.65	NA	NA
MW-10	12/09/1998	28,000	150	<100	240	160	<500	NA	NA	NA	NA	NA	NA	19.76	8.21	NA	11.55	NA	2.7
MW-10	01/18/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.76	NA	NA	NA	NA	NA
MW-10	04/12/1999	8,320	71.2	27.4	138	456	<100	NA	NA	NA	NA	NA	NA	19.76	5.96	NA	13.80	NA	1.8





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MW-11	01/22/1997	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	22.06	5.12	NA	16.94	NA	3.7
MW-11	04/01/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	7.41	NA	14.65	NA	2.8
MW-11	07/14/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	9.74	NA	12.32	NA	1.9
MW-11	10/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	10.23	NA	11.83	NA	2.4
MW-11	01/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	3.69	NA	18.37	NA	3.2
MW-11	04/28/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	5.83	NA	16.23	NA	3.0
MW-11	09/30/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	12/09/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	01/18/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	04/12/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.06	NA	NA	NA	NA	NA
MW-11	04/26/1999	63	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	22.06	5.80	NA	16.26	NA	3.6
MW-11	07/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	6.02	NA	NA	NA	NA	NA	NA	22.06	8.30	NA	13.76	NA	2.0
MW-11	10/14/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	NA	22.06	8.99	NA	13.07	NA	2.4
MW-11	01/06/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	22.06	9.93	NA	12.13	NA	2.9
MW-11	04/05/2000	<50.0	<0.500	<0.500	<0.500	<0.500	3.53	NA	NA	NA	NA	NA	NA	22.06	5.90	NA	16.16	NA	1.8
MW-11	07/20/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	22.06	6.13	NA	15.93	NA	1.7
MW-11	10/24/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.06	7.45	NA	14.61	NA	NA
MW-11	01/19/2001	<50.0	<0.500	<0.500	<0.500	<0.500	4.29	NA	NA	NA	NA	NA	NA	32.99	5.95	NA	27.04	NA	1.6
MW-11	04/27/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	6.12	NA	26.87	NA	NA
MW-11	07/26/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	32.99	7.65	NA	25.34	NA	2.1
MW-11	10/02/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	6.17	NA	26.82	NA	NA
MW-11	01/15/2002	69	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	32.99	4.95	NA	28.04	NA	1.5
MW-11	04/17/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	6.35	NA	26.64	NA	NA
MW-11	07/11/2002	58	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	32.99	7.47	NA	25.52	NA	2.3
MW-11	10/10/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	8.45	NA	24.54	NA	NA
MW-11	01/21/2003	57	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	32.99	5.45	NA	27.54	NA	1.4
MW-11	05/02/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	5.14	NA	27.85	NA	NA
MW-11	07/10/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	2.1	NA	NA	NA	NA	NA	32.99	7.41	NA	25.58	NA	NA
MW-11	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	7.78	NA	25.21	NA	NA
MW-11	01/13/2004	56 d	<0.50	0.50	<0.50	<1.0	NA	2.9	NA	NA	NA	NA	NA	32.99	5.85	NA	27.14	NA	NA
MW-11	04/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	6.02	NA	26.97	NA	NA
MW-11	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.2	<2.0	<2.0	<2.0	<5.0	NA	32.99	7.52	NA	25.47	NA	NA
MW-11	10/20/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	7.20	NA	25.79	NA	NA
MW-11	01/19/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.8	NA	NA	NA	NA	NA	32.99	4.50	NA	28.49	NA	NA

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MW-11	04/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	5.09	NA	27.90	NA	NA
MW-11	07/20/2005	53 f	<0.50	<0.50	<0.50	<1.0	NA	2.9	<2.0	<2.0	<2.0	<5.0	NA	32.99	7.31	NA	25.68	NA	NA
MW-11	10/19/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	8.60	NA	24.39	NA	NA
MW-11	01/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	1.38	NA	NA	NA	NA	NA	32.99	4.38	NA	28.61	NA	NA
MW-11	04/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	3.86	NA	29.13	NA	NA
MW-11	07/19/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	2.22	<0.500	<0.500	<0.500	<10.0	NA	32.99	7.07	NA	25.92	NA	NA
MW-11	10/18/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	7.36	NA	25.63	NA	NA
MW-11	01/17/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	0.92	NA	NA	NA	NA	NA	32.99	6.34	NA	26.65	NA	NA
MW-11	07/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	NA	1.9	<2.0	<2.0	<2.0	<10	NA	32.99	8.30	NA	24.69	NA	NA
MW-11	01/16/2008	<50 h	<0.50	<1.0	<1.0	<1.0	NA	1.6	<2.0	<2.0	<2.0	<10	NA	32.99	5.39	NA	27.60	NA	NA
MW-11	04/16/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	6.89	NA	26.10	NA	NA
MW-11	07/16/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.5	<2.0	<2.0	<2.0	<10	NA	32.99	8.31	NA	24.68	NA	NA
MW-11	10/15/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	8.70	NA	24.29	NA	NA
MW-11	01/21/2009	51	<0.50	<1.0	<1.0	<1.0	NA	1.2	NA	NA	NA	NA	NA	32.99	7.13	NA	25.86	NA	NA
MW-11	04/15/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.99	5.89	NA	27.10	NA	NA
MW-11	10/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	32.99	7.15	NA	25.84	NA	NA



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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary butyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

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Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = MTBE could not be quantified due to co-eluting compounds.

c = The highest recovery value for TPH has been reported, but this should be considered an estimate. Repeated analysis yielded inconsistent results.

d = Hydrocarbon does not match pattern of laboratory's standard.

e = SPH present in well measured at less than 0.01 feet. Visual inspection revealed the presence of distinct phases within the sample, indicating the possible presence of undissolved hydrocarbons.

f = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

g = Secondary ion abundances were outside method requirements. Identification based on analytical judgement.

h = Analyzed by EPA Method 8015B (M).

i = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

\* = This sample was analyzed outside the EPA recommended holding time.

When separate-phase hydrocarbons are present, groundwater elevations is adjusted using the equation:

$$\text{Corrected Groundwater Elevation} = \text{Top of Casing Elevation} - \text{Depth to water} + (0.8 \times \text{Hydrocarbon Thickness}).$$

Resurvey of wells was performed on August 28, 1998 by Virgil Chavez Land Surveying of Vallejo, CA..

All wells except MW-11 surveyed February 26, 2001 by Virgil Chavez Land Surveying of Vallejo, CA.