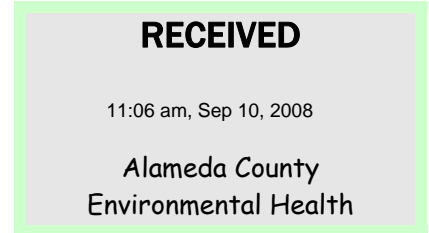




Arctos Environmental  
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29 August 2008  
Project No. 01DO



Jerry Wickham  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Subject: Second Quarter 2008 Monitoring Report  
1088 Marina Boulevard, San Leandro, California  
Tesoro No. 67106 (Former Beacon 3720); ACEH Case No. RO0216**

Dear Mr. Wickham:

Arctos Environmental (Arctos), on behalf of Tesoro Companies, Inc. (Tesoro), has prepared this letter report summarizing project activities for the second quarter 2008 at the subject site (Figure 1).

### **Executive Summary**

Arctos conducted second quarter groundwater monitoring on 12 May 2008. Total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tert-butyl ether (MTBE) concentrations on site continue show decreases of 94 to 100 percent below historical high concentrations.

The Alameda County Environmental Health (ACEH) approved the suspension of quarterly groundwater monitoring in a letter dated 1 August 2008 while the site is reviewed for closure.

### **Site Background**

A site description and background are included in Arctos's Request for Closure dated 9 May 2008 (Arctos, 2008).

### **Field Activities**

Arctos's subcontractor, Confluence Environmental, Inc. (Confluence), of Sacramento, California, performed quarterly groundwater monitoring at the site on 12 May 2008.

Samples were collected from wells MW-1 through MW-9 (Figure 2) in accordance with RWQCB guidelines. Groundwater sampling quality assurance/quality control (QA/QC) procedures are in Attachment A. Field data sheets are in Attachment B.

**Analytical Program**

The groundwater samples were analyzed in accordance with the analytical plan in Attachment A.

**Groundwater Results**

As indicated in Table 1, the groundwater elevations were approximately 21.03 to 21.57 feet above mean sea level (11.70 to 14.58 feet below ground surface). Water levels decreased by approximately 0.4 to 1.6 feet (off site and on site, respectively) since January 2008. The water level data indicate that the general direction of water flow is toward the south on site and southwest off site with an estimated gradient of 0.0021 (1 foot/476 feet; Figure 2). Historical water elevations are in Attachment C.

The highest TPHg concentration of 7,300 micrograms per liter (µg/l) was at well MW-2. The highest benzene, MTBE, and tert-butyl alcohol (TBA) concentrations of 14, 4.2, and 9.5 µg/l, respectively, were at well MW-5. MTBE and TBA concentrations have been below the environmental screening levels (ESLs) at the site for the past six quarters of monitoring. Table 2 is a summary of analytical results for the groundwater samples. Figures 3 and 4 show the isoconcentration contours for TPHg and benzene, respectively. Historical analytical results are in Attachment D; the laboratory report and the chain-of-custody form are in Attachment E.

Concentrations of TPHg, benzene, and MTBE on site have decreased 94 to 100 percent below historical high concentrations. The following table compares the historical highest concentrations reported at the site with the first and second quarter 2008 sampling results:

Compound	Highest Reported Concentration (µg/l)	Highest January 2008 Concentration (µg/l)	Highest May 2008 Concentration (µg/l)	Reduction	ESL (µg/l)
TPHg	130,000	8,100	7,300	94.4%	100
Benzene	22,000	14	14	99.9%	1
MTBE	84,000	4.9	4.2	100%	12

TPHg, benzene, and MTBE concentrations are graphed for onsite wells MW-1 through MW-5, MW-8, and MW-9 on Figures 5A through 5G, respectively.

### Conclusions and Closure Status

Groundwater concentrations have continued to remain stable or decreasing since the first quarter monitoring event, confirming that the plume is stable and decrease.

The ACEH, in a letter dated 1 August 2008, approved the suspension of quarterly groundwater monitoring while the site is reviewed for closure. No additional groundwater monitoring will be conducted unless requested by the ACEH. After receiving the case closure letter, Arctos will prepare a work plan for abandonment of the vapor extraction, air sparging, and groundwater monitoring wells for ACEH approval.

If you have questions or comments, please call Mike Purchase at 510/525-2180 or Jeff Gwinn at 562/988-2755.

Very truly yours,

ARCTOS ENVIRONMENTAL



Michael P. Purchase, P.E.  
Senior Project Manager



Jeffrey P. Gwinn, P.E.  
Vice President

Copy: Jeffrey M. Baker – Tesoro Companies, Inc.  
Brian Kelleher – Kelleher & Associates

Attachments: Table 1 – Well and Groundwater Elevations  
Table 2 – Grounwater Monitoring Analytical Results  
Figure 1 – Site Location Map  
Figure 2 – Site Plan  
Figure 3 – TPHg Concentration Contours in Groundwater  
Figure 4 – Benzene Concentration Contours in Groundwater  
Figures 5A through 5G – TPHg, Benzene, and MTBE Results for Wells MW-1 through MW-5, MW-8, and MW-9  
Attachment A – Groundwater Sampling QA/QC Procedures  
Attachment B – Field Data Sheets  
Attachment C – Historical Groundwater Elevations  
Attachment D – Historical Groundwater Analytical Results  
Attachment E – Laboratory Analytical Report and Chain-of-Custody Form

Jerry Wickham  
Alameda County Environmental Health  
29 August 2008  
Page 4



## **Reference**

Arctos Environmental, 2008. *Request for Closure, 1088 Marina Boulevard, San Leandro, California, Tesoro No. 67106 (Former Beacon 3720), ACEH Case No. RO0216, 9 May.*

TABLE 1

WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-1	4/25/2007	13.35	35.47	22.12
	7/23/2007	14.00		21.47
	10/24/2007	14.15		21.32
	1/27/2008	12.24		23.23
	5/12/2008	13.90		21.57
MW-2	4/25/2007	13.10	35.11	22.01
	7/23/2007	13.69		21.42
	10/24/2007	13.84		21.27
	1/27/2008	12.32		22.79
	5/12/2008	13.57		21.54
MW-3	4/25/2007	12.99	34.84	21.85
	7/23/2007	13.55		21.29
	10/24/2007	13.72		21.12
	1/27/2008	12.51		22.33
	5/12/2008	13.35		21.49
MW-4	4/25/2007	13.58	35.33	21.75
	7/23/2007	14.19		21.14
	10/24/2007	14.23		21.10
	1/27/2008	12.63		22.70
	5/12/2008	13.98		21.35
MW-5	4/25/2007	13.40	35.09	21.69
	7/23/2007	13.95		21.14
	10/24/2007	14.09		21.00
	1/27/2008	12.46		22.63
	5/12/2008	13.72		21.37
MW-6	4/25/2007	11.43	32.74	21.31
	7/23/2007	11.98		20.76
	10/24/2007	12.15		20.59
	1/27/2008	11.25		21.49
	5/12/2008	11.70		21.04
MW-7	4/25/2007	12.33	33.64	21.31
	7/23/2007	13.00		20.64

TABLE 1

WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	10/24/2007	13.11	33.64	20.53
	1/27/2008	12.19		21.45
	5/12/2008	12.61		21.03
MW-8	4/25/2007	14.19	36.08	21.89
	7/23/2007	14.80		21.28
	10/24/2007	14.95		21.13
	1/27/2008	13.00		23.08
	5/12/2008	14.58		21.50
MW-9	4/25/2007	12.95	34.63	21.68
	7/23/2007	13.54		21.09
	10/24/2007	13.71		20.92
	1/27/2008	12.22		22.41
	5/12/2008	13.27		21.36

- (a) Elevation of PVC well casing (north edge) surveyed relative to mean sea level (MSL).  
Wells were surveyed by Cross Land Surveying, Inc., per AB 2886 requirements on 28 January 2004.  
City of Fremont Benchmark A 63, elevation is 53.970 feet above MSL.
- (b) Difference between "PVC Casing Elevation" and "Depth to Water."

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-1	4/25/2007	3,400	ND<0.5 <sup>(b)</sup>	ND<0.5	15	3.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/23/2007	5,400	ND<0.5	0.61	24	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	3,500	ND<0.5	ND<0.5	13	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/27/2008	690	ND<0.5	0.52	1.8	0.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	600	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-2	4/25/2007	9,400	22	8.7	620	100	ND<2	ND<2	ND<2	ND<2	ND<9
	7/23/2007	9,100	13	7.5	640	98	0.60	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	8,800	6.4	4.8	520	85	ND<1.5	ND<1.5	ND<1.5	ND<1.5	-- <sup>(c)</sup>
	1/27/2008	8,100	5.4	5.3	350	130	ND<1.5	ND<1.5	ND<1.5	ND<1.5	7.2
	5/12/2008	7,300	7.0	3.4	310	21	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7
MW-3	4/25/2007	760	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	6.1
	7/23/2007	750	1.4	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	890	1.3	0.70	0.70	ND<0.5	0.84	ND<0.5	ND<0.5	ND<0.5	5.5
	1/27/2008	1,200	1.4	1.1	3.3	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.3
	5/12/2008	840	ND<0.5	ND<0.5	ND<0.5	0.59	0.76	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-4	4/25/2007	340	0.83	4.6	10	26	4.8	ND<0.5	ND<0.5	ND<0.5	6.0
	7/23/2007	1,000	2.6	4.1	42	43	3.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	2,100	4.7	32	78	230	2.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/27/2008	2,500	5.2	9.0	56	130	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	300	0.69	ND<0.5	1.4	4.2	0.98	ND<0.5	ND<0.5	ND<0.5	ND<5

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-5	4/25/2007	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	8.1
	7/23/2007	700	0.72	ND<0.5	1.4	0.70	3.2	ND<0.5	ND<0.5	ND<0.5	8.9
	10/24/2007	1,000	1.6	ND<0.5	2.1	0.60	2.5	ND<0.5	ND<0.5	ND<0.5	8.6
	1/27/2008	1,900	14	0.78	34	6.0	4.9	ND<0.5	ND<0.5	ND<0.5	10
	5/12/2008	1,400	14	ND<0.5	2.2	0.92	4.2	ND<0.5	ND<0.5	ND<0.5	9.5
MW-6	4/25/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/23/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/27/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-7	4/25/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/23/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/27/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-8	4/25/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/23/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	7.6
	1/27/2008	51	ND<0.5	ND<0.5	ND<0.5	0.68	2.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	270	0.53	ND<0.5	ND<0.5	8.7	2.2	ND<0.5	ND<0.5	ND<0.5	ND<5

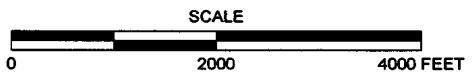
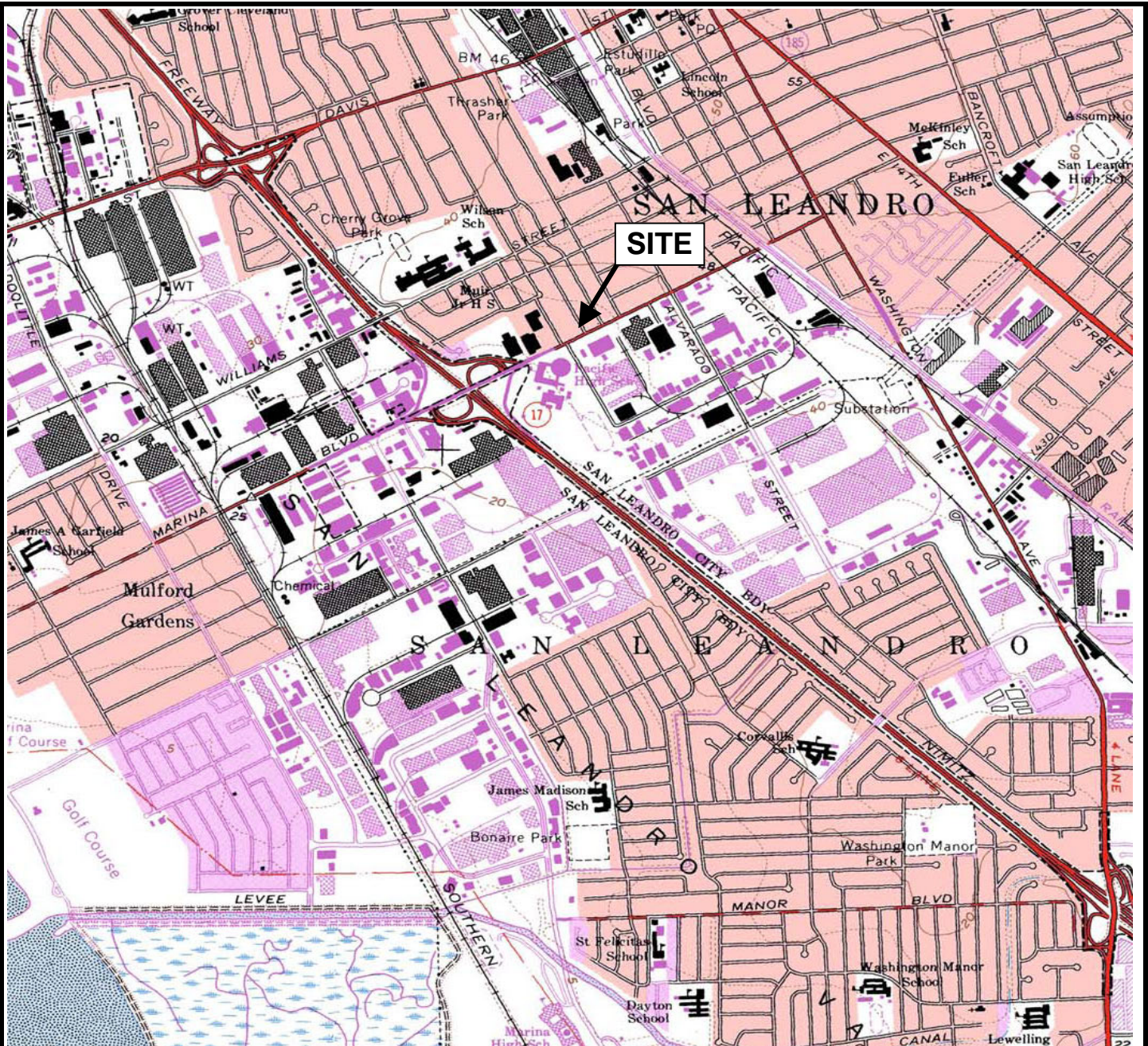


TABLE 2

GROUNDWATER ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

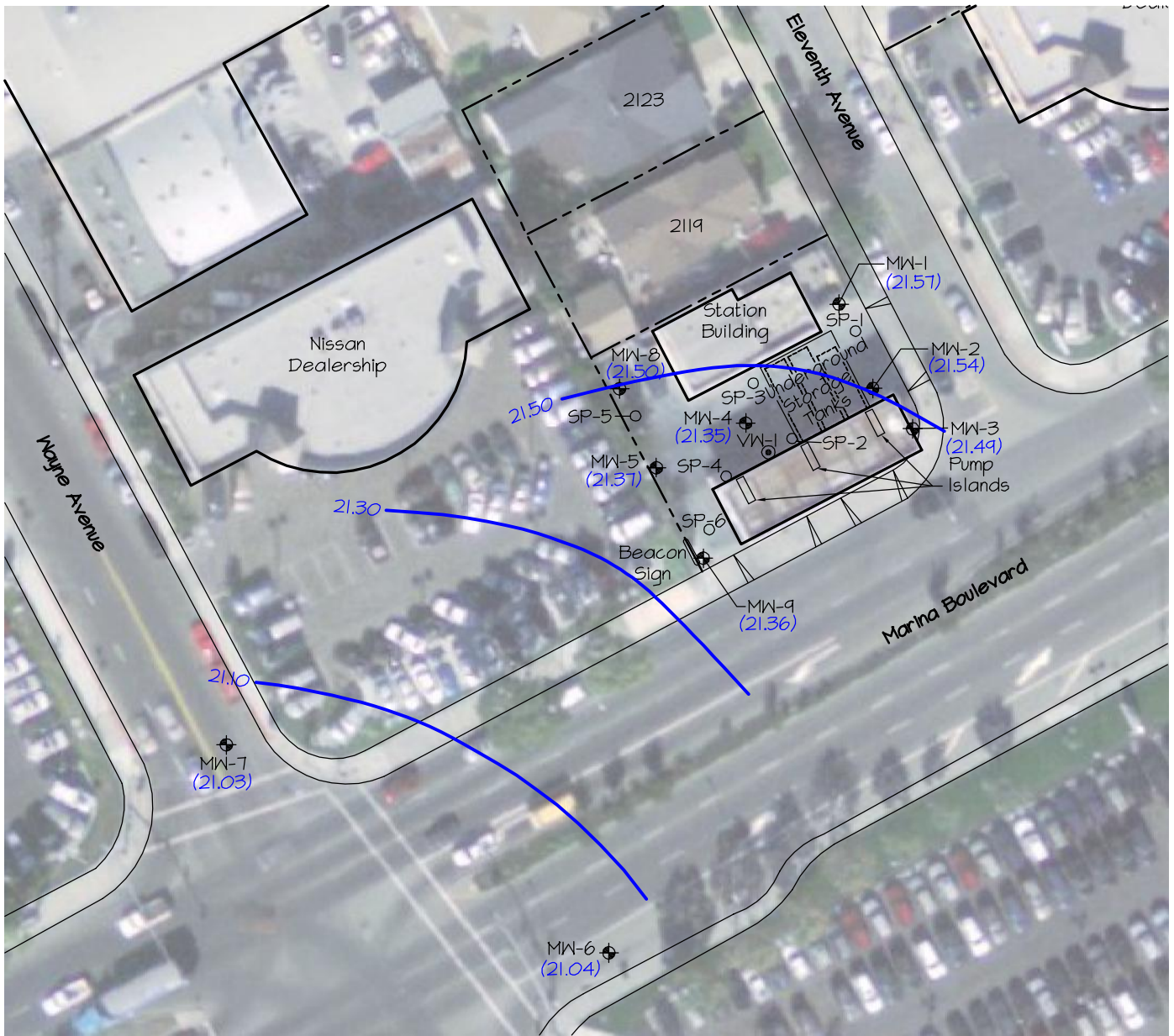
Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-9	4/25/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/23/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/2007	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/27/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/12/2008	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5

- (a) Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), methanol, and ethanol analyzed by EPA Method 8260; reported in micrograms per liter (ug/l).
- (b) ND - Not detected at the reporting limit listed.
- (c) " - " Not analyzed.



**REFERENCE**  
 7.5 MINUTE USGS TOPOGRAPHIC MAP OF  
 SAN LEANDRO, CALIFORNIA QUADRANGLE  
 DATE: 1959, PHOTOREVISED 1980  
 SCALE = 1:24,000

ARCTOS ENVIRONMENTAL			
TESORO - SAN LEANDRO, 67106			
<b>SITE LOCATION MAP</b>			
PROJECT NO. 01DO	DRAWN BY MP	CHECKED BY MP	APPROVED BY JG
FILE NO. Site Map.xls		<b>FIGURE 1</b>	



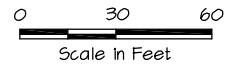
Legend

MW-1 Monitoring Well with 12 May 2008 Groundwater Elevation (Feet MSL)

VN-1 Vapor Extraction Well

SP-1 Air Sparging Well

22.50 Groundwater Elevation Contour (Feet MSL)

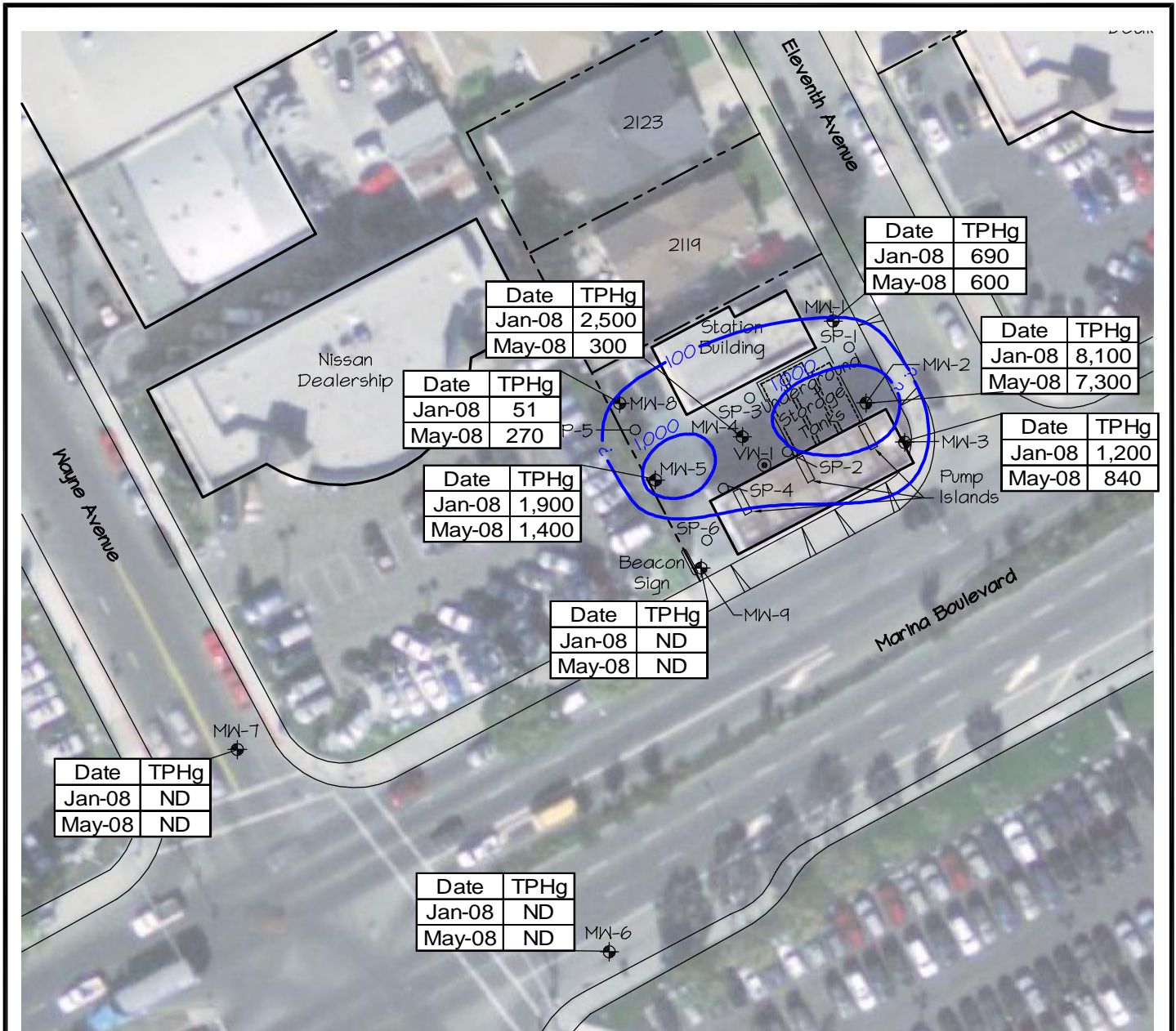


ARCTOS ENVIRONMENTAL			
TESORO - SAN LEANDRO			
<b>SITE PLAN</b>			
PROJECT NO. 01D0	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. 01D011B0401.DWG		<b>FIGURE 2</b>	

REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
1	0	MY	3/6/08	First Quarter 2008 Status Report
	1	MY	8/15/08	Second Quarter 2008 Status Report

01D011B0401.dwg

8/7/2008 10:18AM



Legend

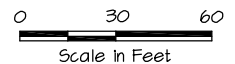
MW-I Monitoring Well with 27 January and 12 May 2008 Total Petroleum Hydrocarbons as Gasoline (TPHg) Results in µg/l

VW-I Vapor Extraction Well

SP-I Air Sparging Well

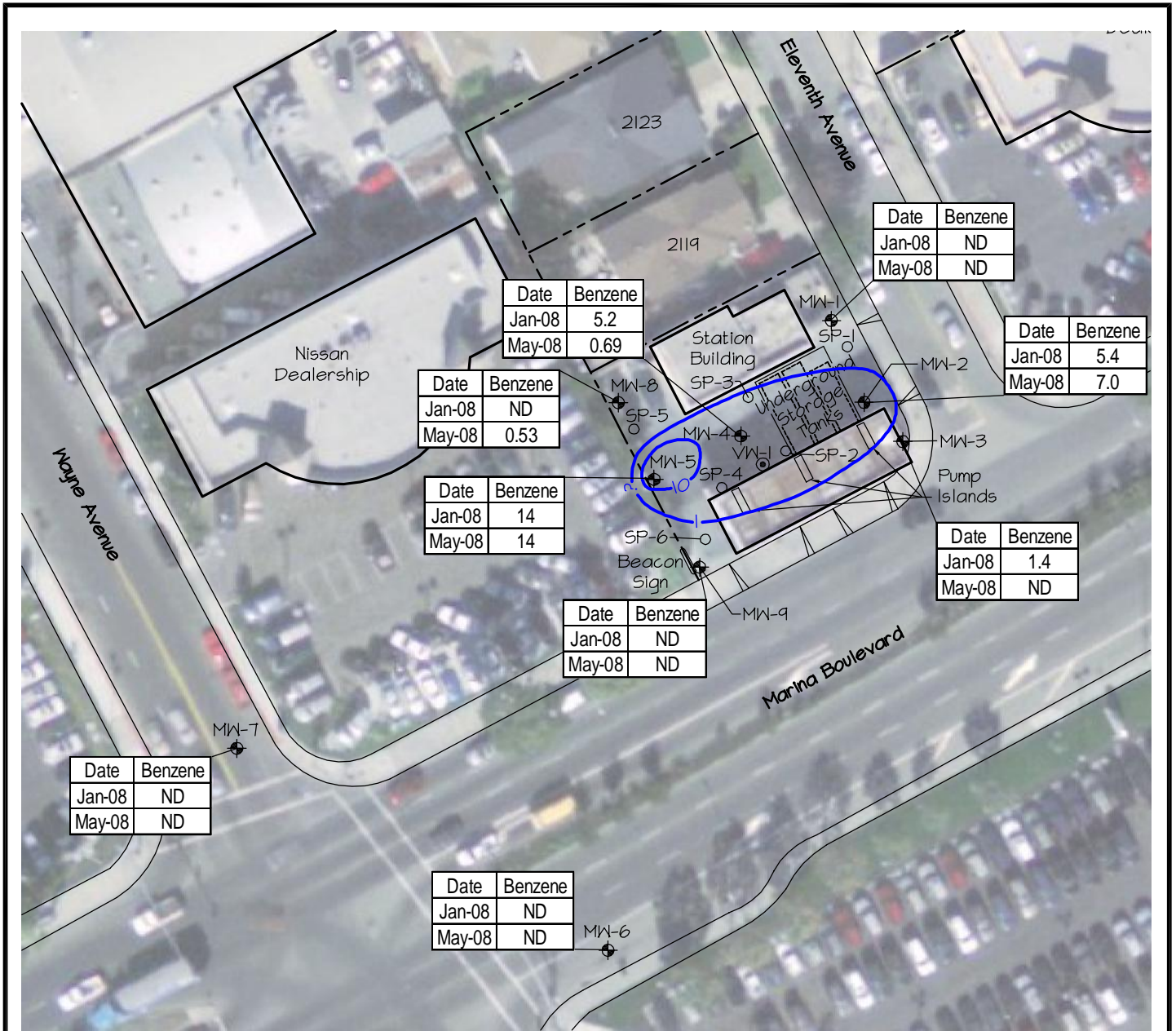
ND Not Detected

TPHg Concentration Contour (µg/l), Queried Where Uncertain



REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
1	0	MY	3/6/08	First Quarter 2008 Status Report
	1	MY	8/15/08	Second Quarter 2008 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LEANDRO			
<b>TPHg CONCENTRATION CONTOURS IN GROUNDWATER</b>			
PROJECT NO. 01D0	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. 01D011B0201.DWG		<b>FIGURE 3</b>	



Legend

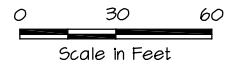
MW-I Monitoring Well with 27 January and 12 May 2008 Benzene Results in  $\mu\text{g/l}$

VW-I Vapor Extraction Well

SP-I Air Sparging Well

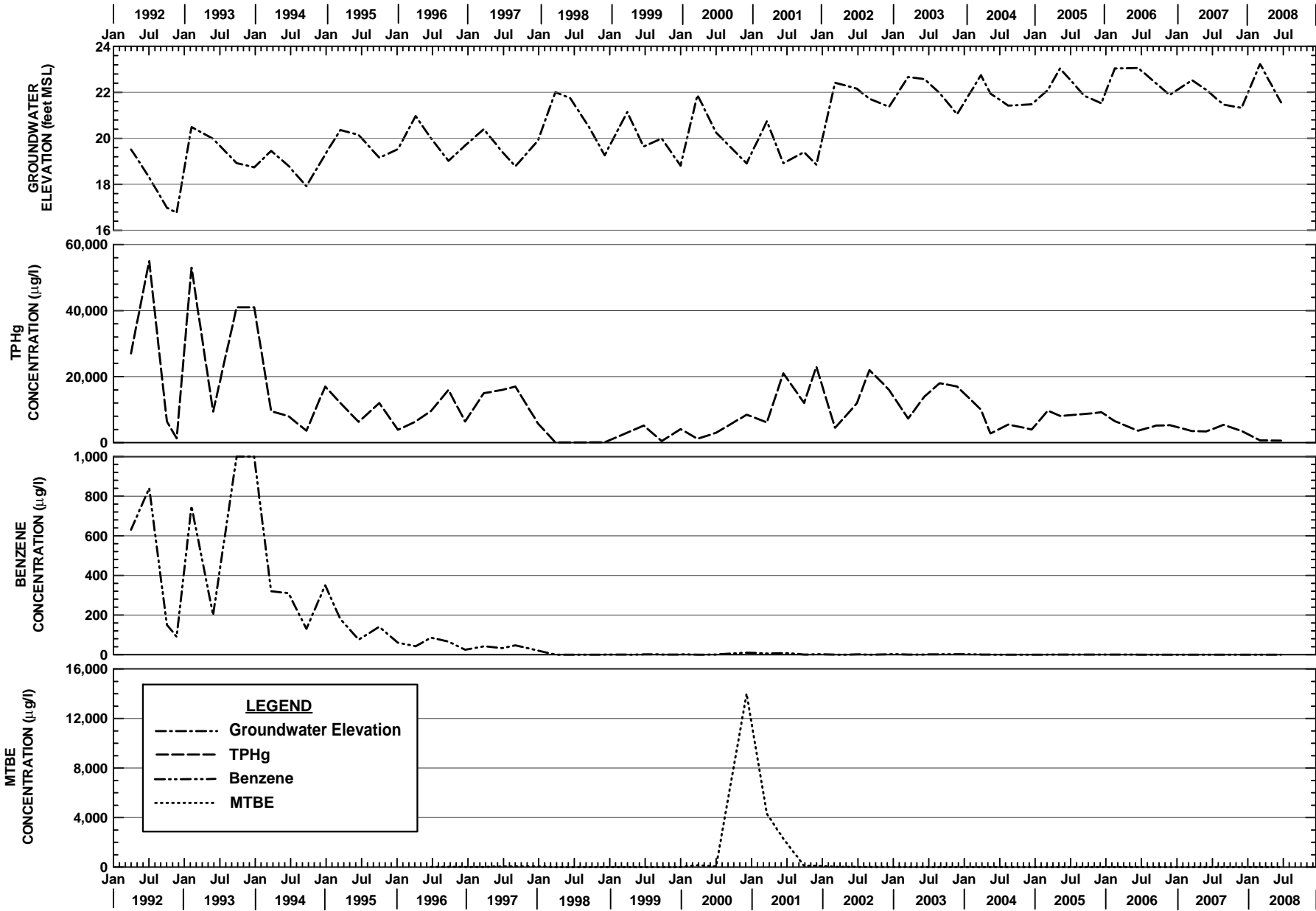
ND Not Detected

Benzene Concentration Contour ( $\mu\text{g/l}$ ), Queried Where Uncertain



ARCTOS ENVIRONMENTAL			
TESORO - SAN LEANDRO			
<b>BENZENE CONCENTRATION CONTOURS IN GROUNDWATER</b>			
PROJECT NO. 01D0	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. 01D011B0301.DWG		<b>FIGURE 4</b>	

REVISION	REVISIONS			DESCRIPTION
	NO.	BY	DATE	
1	0	MY	3/6/08	First Quarter 2008 Status Report
	1	MY	8/15/08	Second Quarter 2008 Status Report



Note: Non-detect results are plotted at one-half the detection limit.

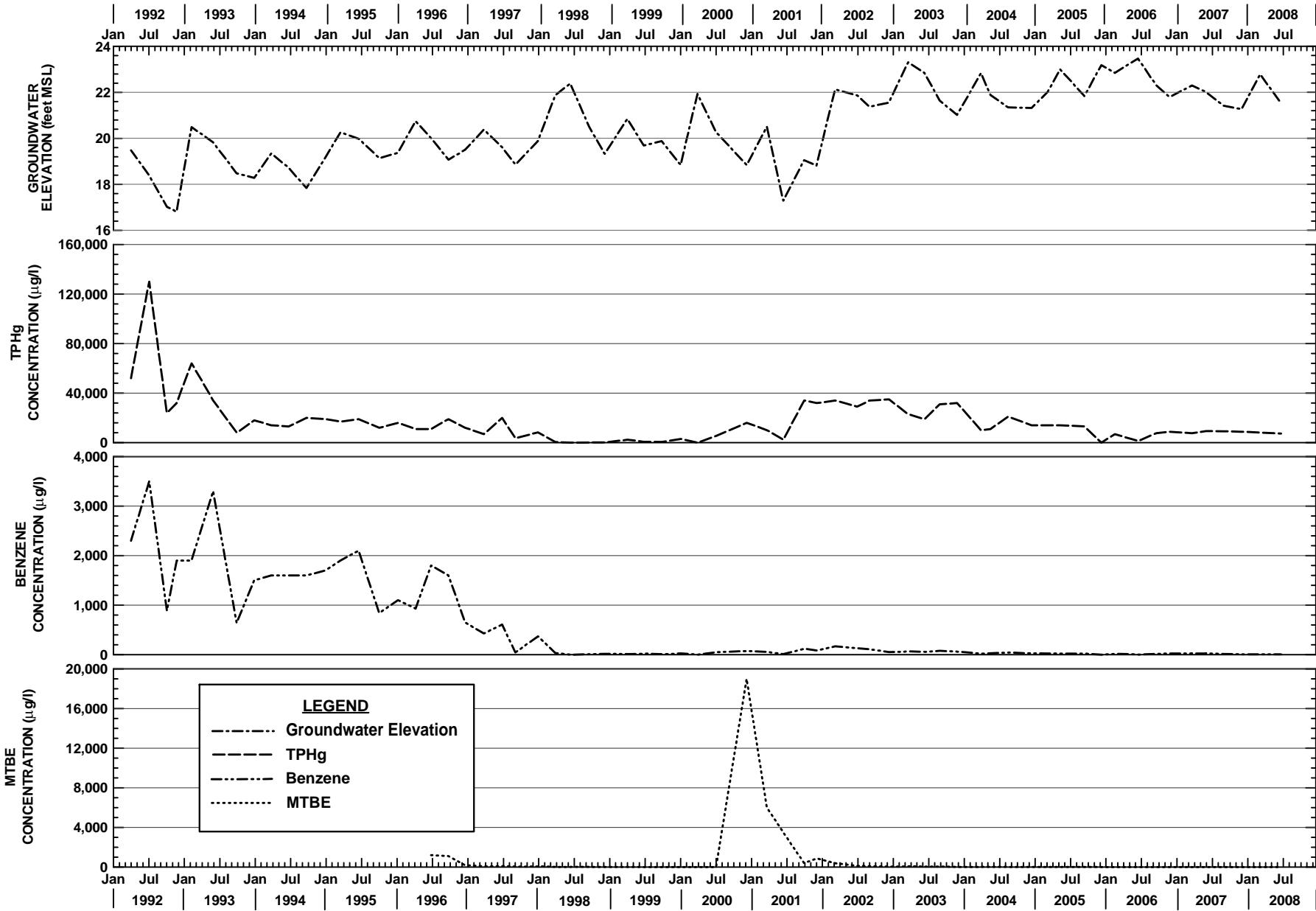
**ARCTOS** ARCTOS ENVIRONMENTAL

PROJECT NO. 01DO	DATE AUG 2008	DRAWN BY MP	DESIGNED BY DN
FILE NO. 01DOMW01.GRF		CHECKED BY JPG	

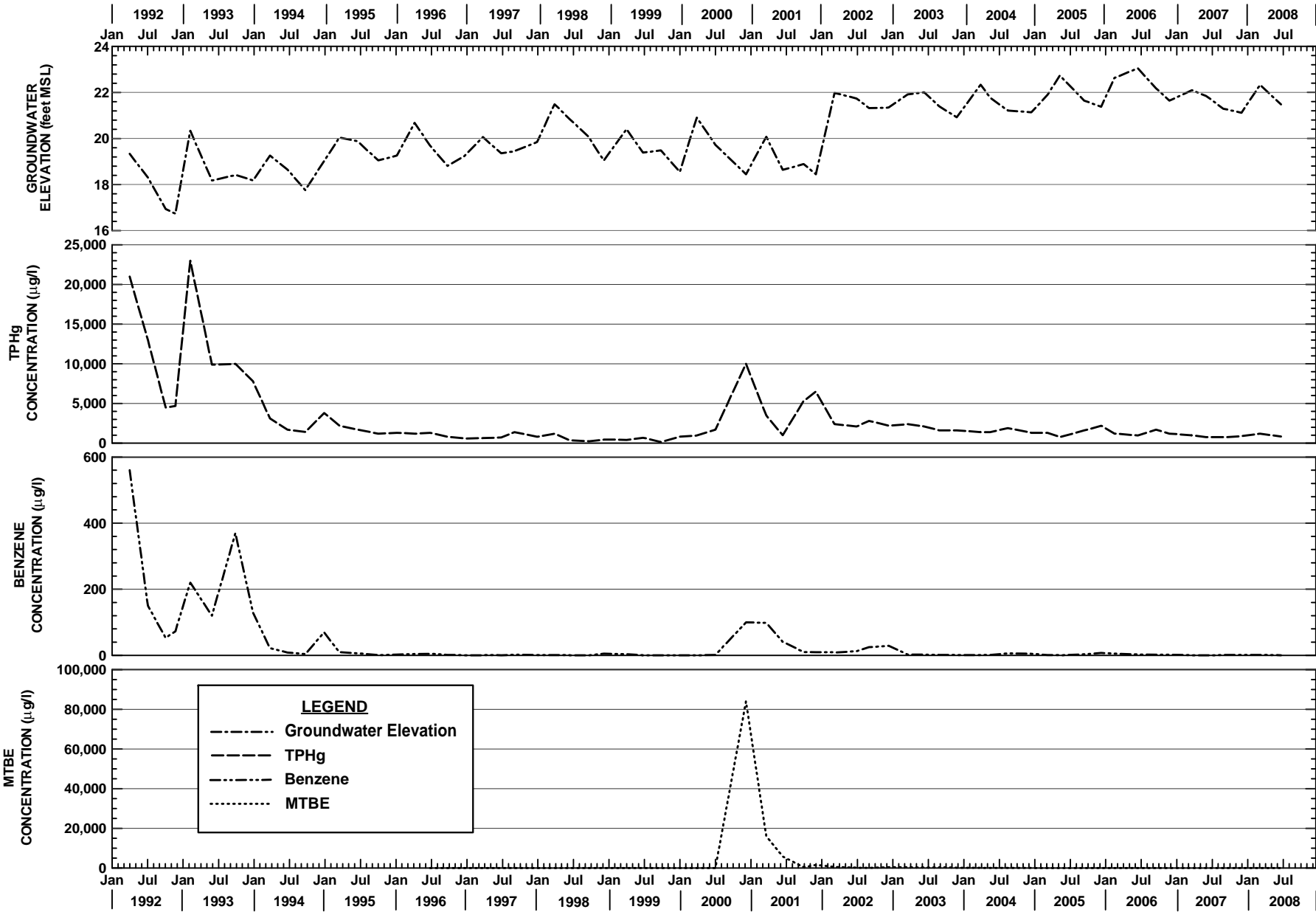
**Tesoro - San Leandro  
67106**

**TPHg, BENZENE, AND MTBE RESULTS  
FOR WELL MW-1**

**Figure 5A**



Note: Non-detect results are plotted at one-half the detection limit.



Note: Non-detect results are plotted at one-half the detection limit.

**ARCTOS** ARCTOS ENVIRONMENTAL

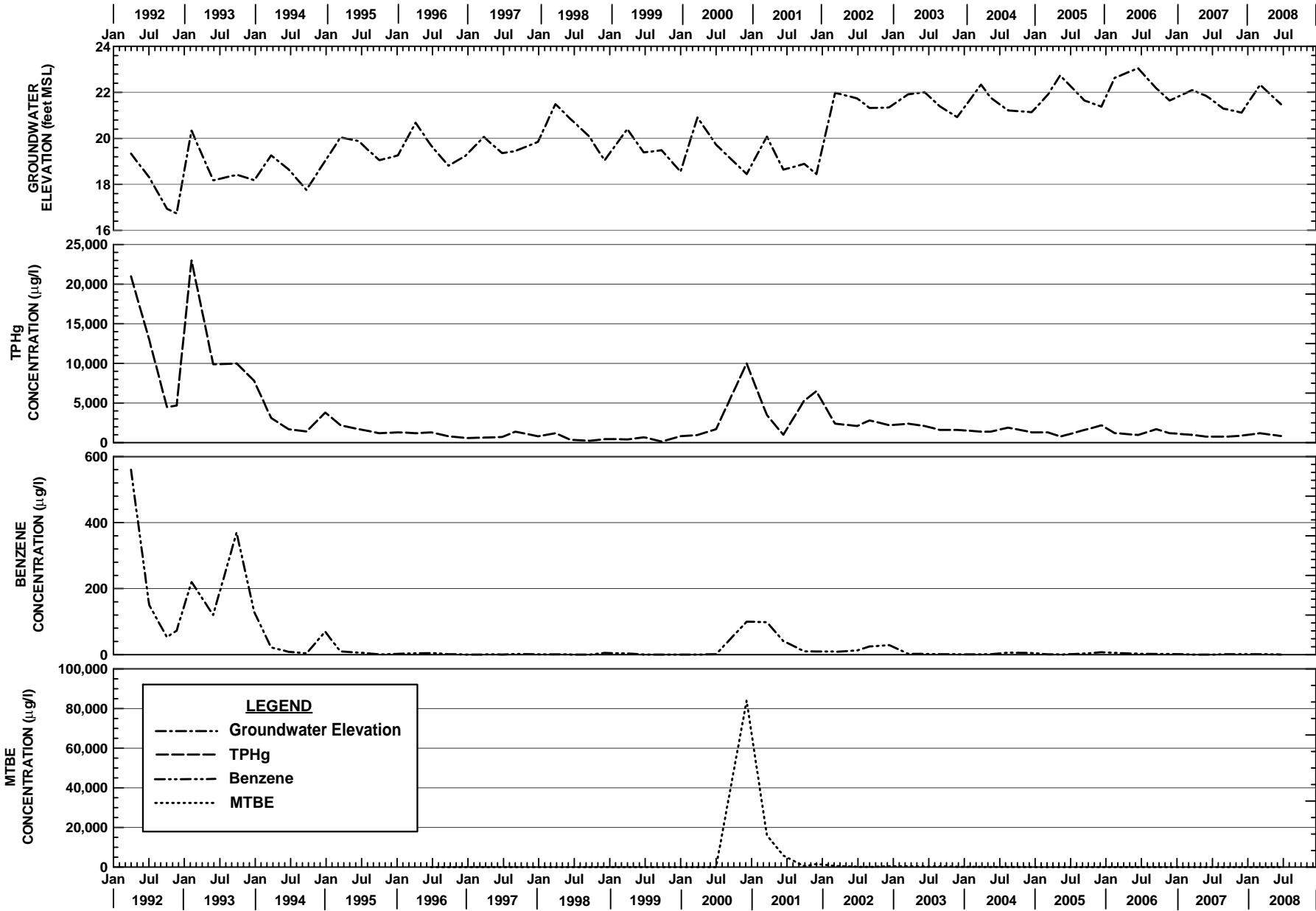
PROJECT NO. 01DO	DATE AUG 2008	DRAWN BY MP	DESIGNED BY DN
FILE NO. 01DOMW03.GRF	CHECKED BY JPG		

**Tesoro - San Leandro  
67106**

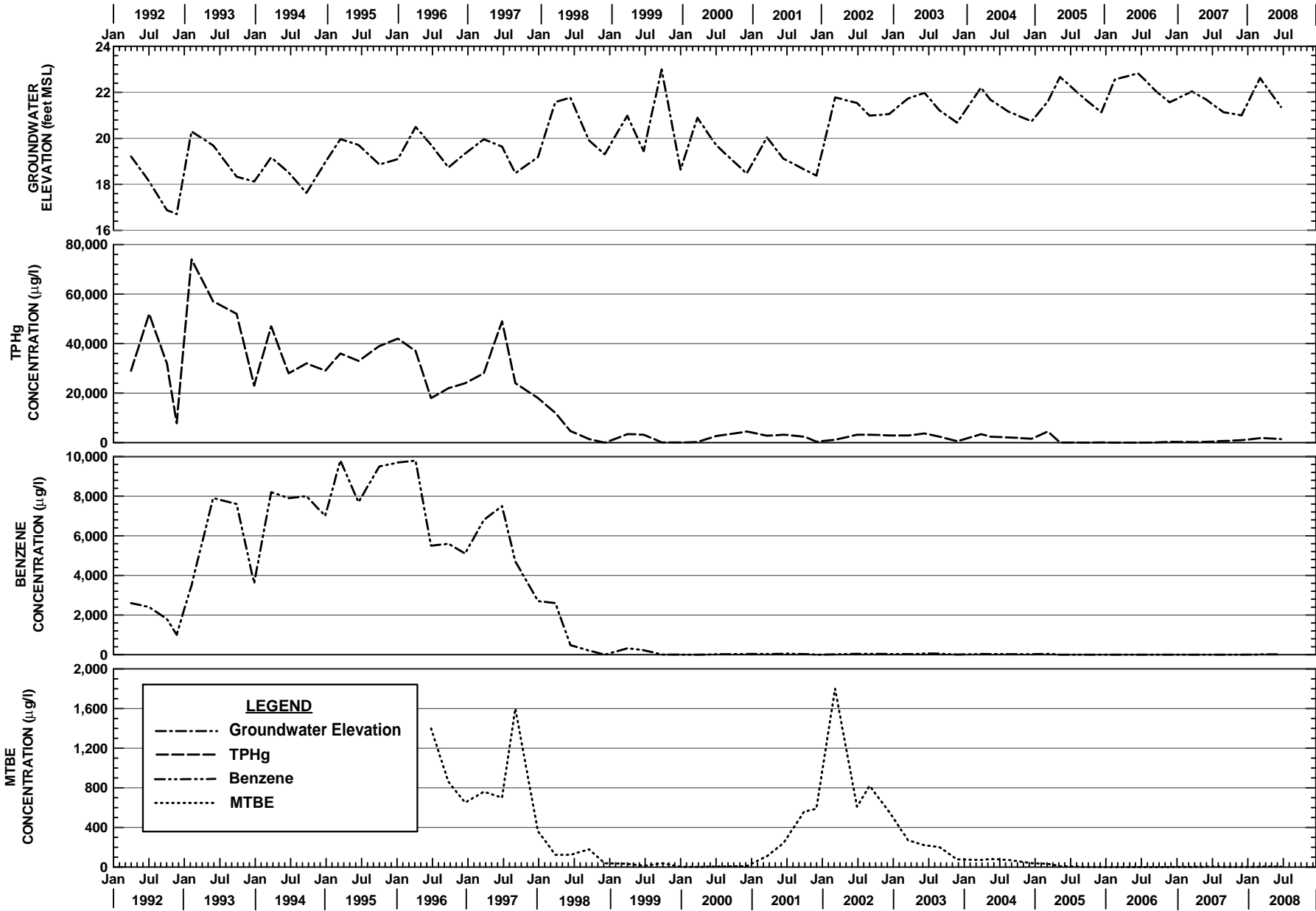
**TPHg, BENZENE, AND MTBE RESULTS  
FOR WELL MW-3**

Figure 5C

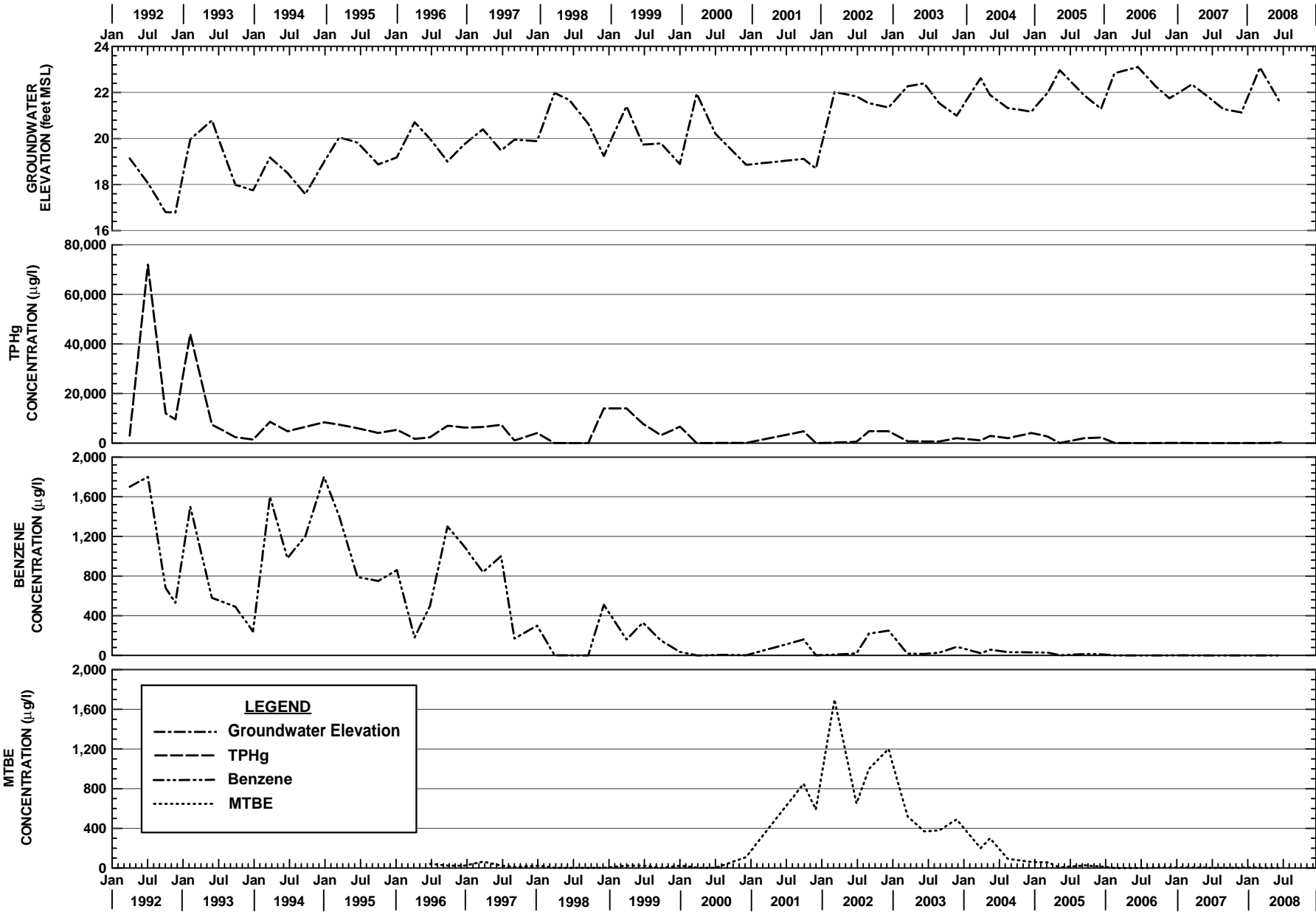




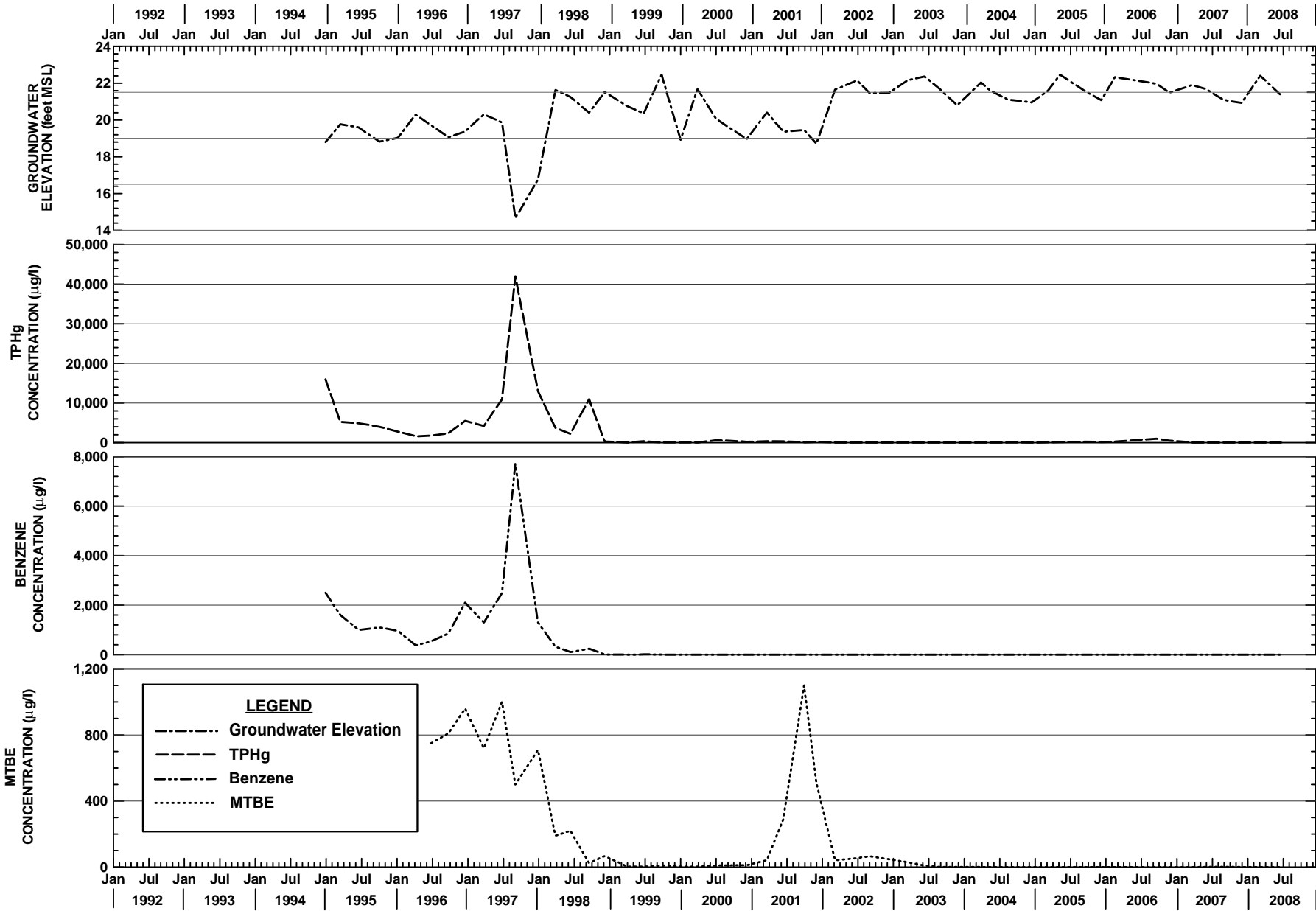
Note: Non-detect results are plotted at one-half the detection limit.



Note: Non-detect results are plotted at one-half the detection limit.



Note: Non-detect results are plotted at one-half the detection limit.



Note: Non-detect results are plotted at one-half the detection limit.

**ATTACHMENT A**  
**GROUNDWATER SAMPLING QA/QC PROCEDURES**

**ATTACHMENT A**  
**GROUNDWATER SAMPLING QA/QC PROCEDURES**

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**A.1 Field Activities for Groundwater Sampling**

Before groundwater sampling, the depth to groundwater of each well was measured and recorded on field data sheets. Depth to groundwater and groundwater elevations are summarized in attached tables.

During groundwater sampling, field observations of the groundwater were recorded on the field data sheets. Groundwater samples were collected after the temperature, pH, and specific conductivity of the groundwater had stabilized to within approximately 10 percent of the previous reading and at least 3 casing volumes of groundwater were removed from the well, unless the well purged dry. Well purge water was stored temporarily on site in 55-gallon drums.

Sampling was performed using new disposable polyethylene bailers suspended from new nylon line. The bailers were equipped with a bottom-release device. Water samples were collected from the wells in new 40-milliliter glass bottles with Teflon-lined caps provided by the analytical laboratory.

**A.2 Analytical Program**

The groundwater samples were analyzed by Kiff Analytical LLC, a State-certified laboratory in Davis, California, for total petroleum hydrocarbons as gasoline (TPHg); benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tert-butyl ether (MTBE); and other oxygenates using EPA Method 8260B.

Arctos, as Tesoro's Authorized Responsible Party for the site, also has electronically submitted the groundwater monitoring results to the State Water Resources Control Board (SWRCB). The data were submitted in the State-mandated Electronic Data Format (EDF), in accordance with Assembly Bill 2886 requirements for underground storage tank (UST) sites in California.

**ATTACHMENT B**  
**FIELD DATA SHEETS**

## Water Level Measurements

Job Number: B1-080512 Date: 5/12/08 Client: Orion

Site: Tesoro # 67106 - San Leandro

Well I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)		
MW-1	940	2			13.90	26.40		TOC		8
MW-2	945	2			13.57	24.50				7
MW-3	936	2			13.35	28.33			5	
MW-4	926	2			13.98	24.20			6	
MW-5	929	2			13.72	26.45			4	
MW-6	914	2			11.70	15.05			2	
MW-7	902	2			12.61	24.60			3	
MW-8	910	2			14.58	28.10			1	
MW-9	854	4			13.27	24.10				





## Purging And Sampling Data Sheet

<b>Job#:</b> B1-080512		<b>Sampler:</b> J Brown		<b>Client:</b> Orion	
<b>Well ID:</b> MW-1		<b>Date:</b> 5/12/2008		<b>Site:</b> Tesoro #67106, San Leandro	
<b>Well diam:</b> 1/4" 1" <u>2</u> 3" 4" 6" Other:			<b>DTW:</b> 13.90 <b>Total Depth:</b> 26.40		
<b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System		disp bailer teflon bailer other: <b>Tubing:</b> <u>OD: 1/4"</u> New Dedicated NA			
<b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:					
<b>Pump depth/ intake:</b> 21'		<b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius <sup>2</sup> X 0.163			
(TD - DTW X Multiplier = 1 Volume			80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80%= \_\_\_\_\_

Time	Temp (°F)	pH	Cond (mS/15)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal)	DO (mg/l)	ORP	DTW	Notes
1453	18.2	6.8	239	16.1	500	1.52	0.3	-205.2	14.02	odor
1456	18.1	6.8	238	16.4	"	3.0	0.3	-208.4	14.03	"
1459	18.1	6.8	238	16.9	"	4.5	0.2	-210.1	14.04	"
1502	18.1	6.9	236	11.4	"	6.0	0.2	-217.0	14.05	"

Did well dewater? YES <u>NO</u>		Total volume removed: _____ (gal / L)	
Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other:			
Sample date: 5/12/08		Sample time: 1510	DTW at sample: 14.05
Sample ID: MW-1		Lab: Kiff	Number of bottles: 12
Analysis: See COC			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO:	Post purge DO:
Fe2 <sup>+</sup> :		Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:		Volume removed: ml

# Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-2	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" <b>2"</b> 3" 4" 6" Other:	DTW: 13.57 Total Depth: 24.50	
Purge equip: ES - diam: Bladder <b>Peri</b> Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: <b>1/4"</b> New Dedicated NA	
Purge method: 3-5 Case Volume <b>Micro/Low-Flow</b> Extraction Other:		
Pump depth/ intake: 20'	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)      80%= \_\_\_\_\_

Time	Temp (°/°F)	pH	Cond (mS /µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1520	18.2	6.8	187	59.0	500	1.5 L	0.3	-200.5	13.88	odor
1523	18.2	6.8	186	36.2	"	3.0	0.3	-202.8	14.00	odor
1526	18.1	6.8	183	30.9	"	4.5	0.2	-201.7	14.05	odor
1527	18.1	6.9	182	22.2	"	6.0	0.2	-202.2	14.06	strong odor
1532	18.1	6.9	181	16.4	"	7.5	0.2	-204.0	14.05	

Did well dewater? YES <b>NO</b>	Total volume removed: _____ (gal / L)
Sample method: Disp Bailer Ded. Tubing <b>New Tubing</b> Ext. Port Other:	
Sample date: 5/12/08	Sample time: 1540      DTW at sample: 14.05
Sample ID: MW-2	Lab: Kiff      Number of bottles: 12
Analysis: See COC	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO:      Post purge DO:
Fe <sup>2+</sup> :	Pre-purge ORP:      Post purge ORP:
NAPL depth:	Volume of NAPL:      Volume removed: ml

## Purging And Sampling Data Sheet

<b>Job#:</b> B1-080512		<b>Sampler:</b> J Brown		<b>Client:</b> Orion	
<b>Well ID:</b> MW-3		<b>Date:</b> 5/12/2008		<b>Site:</b> Tesoro #67106, San Leandro	
<b>Well diam:</b> 1/4" 1" <u>2"</u> 3" 4" 6" Other:			<b>DTW:</b> 13.35 <b>Total Depth:</b> 28.33		
<b>Purge equip:</b> ES - diam: Bladder <u>Peri</u> Waterra Positive-Air Displacement Ext. System		disp bailer teflon bailer other: <b>Tubing:</b> OD: <u>1/2"</u> New Dedicated NA			
<b>Purge method:</b> 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:					
<b>Pump depth/ intake:</b> 23'		<b>Multipliers:</b> 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163			
(TD - DTW X Multiplier = 1 Volume			80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge) 80%= \_\_\_\_\_

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or ml / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1425	19.0	6.8	262	10.7	500	1.5 L	0.2	-211.4	13.48	odor
1428	19.0	6.7	261	9.4	"	3.0	0.2	-221.0	13.48	"
1431	19.0	6.8	262	9.2	"	4.5	0.2	-224.8	13.49	v
1434	18.7	6.8	263	9.0	"	6.0	0.2	-227.9	13.49	

Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			Total volume removed: _____ (gal / L)		
Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other:					
Sample date: 5/12/08		Sample time: 1440		DTW at sample: 13.49	
Sample ID: MW-3		Lab: Kiff		Number of bottles: 12	
Analysis: See COC					
Equipment blank ID @			Field blank ID @		
Duplicate ID:		Pre-purge DO:		Post purge DO:	
Fe2 <sup>+</sup> :		Pre-purge ORP:		Post purge ORP:	
NAPL depth:		Volume of NAPL:		Volume removed: ml	



## Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-4	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" 2" 3" 4" 6" Other:	DTW: 13.98 Total Depth: 24.20	
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other: Tubing: OD: 4" New Dedicated NA		
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake: 20' Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius <sup>2</sup> X 0.163		
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80%= \_\_\_\_\_

Time	Temp (°F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1309	18.7	6.7	708	28.5	500	1.5 L	0.3	-157.1	15.50	
1312	18.8	6.7	695	27.0	300	2.4	0.4	-164.2	15.40	
1315	19.1	7.0	681	26.2	"	3.3	0.5	-163.5	15.20	odor
1318	19.0	7.0	658	27.2	"	4.2	0.7	-155.7	15.10	odor
1321	19.1	7.0	672	27.1	"	5.1	0.6	-161.2	15.08	odor
1324	19.1	7.0	620	26.4	"	6.0	0.6	-163.2	15.08	odor

Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Total volume removed: 6 (gal/L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 5/12/08	Sample time: 1330	DTW at sample: 15.08	
Sample ID: MW-4	Lab: Kiff	Number of bottles: 12	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO:	Post purge DO:	
Fe2 <sup>+</sup> :	Pre-purge ORP:	Post purge ORP:	
NAPL depth:	Volume of NAPL:	Volume removed:	ml



## Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-5	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" <b>2"</b> 3" 4" 6" Other:	DTW: 13.7h Total Depth: 16.45	
Purge equip: ES - diam: Bladder <b>Peri</b> Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: <b>1/4"</b> New Dedicated NA	
Purge method: 3-5 Case Volume <b>Micro/Low-Flow</b> Extraction Other:		
Pump depth/ intake: 11'	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume)		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80% = \_\_\_\_\_

Time	Temp (°C/°F)	pH	Cond (µS/cm)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1355	18.9	6.8	1126	14.7	500	1.5L	0.5	-161.2	14.02	
1358	19.0	6.7	1155	15.1	"	3.0	0.6	-168.8	14.02	
1401	18.8	6.8	1192	16.0	"	4.5	0.5	-179.0	14.03	
1404	18.8	6.7	1192	15.0	"	6.0	0.4	-180.1	14.03	

Did well dewater? YES  **NO**                       Total volume removed: **6** (gal **L**)

Sample method: Disp Bailor    Ded. Tubing    **New Tubing**    Ext. Port    Other:

Sample date: 5/12/08    Sample time: **1410**    **1410**    DTW at sample: **14.03**

Sample ID: **MW-5**    Lab: **Kiff**    Number of bottles: **11**

Analysis:                      See COC

Equipment blank ID                      @                      Field blank ID                      @

Duplicate ID:                      Pre-purge DO:                      Post purge DO:

Fe2<sup>+</sup>:                      Pre-purge ORP:                      Post purge ORP:

NAPL depth:                      Volume of NAPL:                      Volume removed:                      ml

## Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-6	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 11.70 Total Depth: 15.05	
Purge equip: ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: <u>1/4"</u> New Dedicated NA	
Purge method: 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:		
Pump depth/ intake: 13.5	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80% = \_\_\_\_\_

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1228	18.7	6.7	934	2.8	500	1.5 L	2.7	-30.8	12.15	
1231	18.4	6.7	977	3.1	"	3.0	2.6	-28.1	12.30	
1234	18.2	6.7	992	3.5	"	4.5	2.1	-30.1	12.31	
1237	18.2	6.7	990	4.5	"	6.0	1.8	-32.6	12.42	
1240	18.2	6.7	991	6.1	low rate 300	6.9	2.0	-32.7	12.43	
1243	18.2	6.7	991	5.5	300	7.8	1.9	-31.6	12.42	

Did well dewater? YES <u>NO</u>	Total volume removed: _____ (gal / L)
Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other:	
Sample date: 5/12/08	Sample time: 1245 DTW at sample: 12.42
Sample ID: MW-6	Lab: Kiff Number of bottles: 12
Analysis: See COC	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: Post purge DO:
Fe <sup>2+</sup> :	Pre-purge ORP: Post purge ORP:
NAPL depth:	Volume of NAPL: _____ Volume removed: _____ ml



# Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-7	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" <b>2"</b> 3" 4" 6" Other:	DTW: 12.61 Total Depth: 24.60	
Purge equip: ES - diam: Bladder Peri <b>Watterra</b> Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: 1/4" <b>New</b> Dedicated NA	
Purge method: 3-5 Case Volume <b>Micro/Low-Flow</b> Extraction Other:		
Pump depth/ intake: 20'	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)      80% = \_\_\_\_\_

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1107	18.5	6.8	533	12.9	500	1.5 L	1.1	-81.4	12.80	
1112	18.6	6.7	530	12.1	"	3.0	1.1	-81.5	12.82	
1115	18.6	6.8	530	10.1	"	4.5	1.0	-85.7	12.83	
1118	18.6	6.8	530	10.0	"	6.0	1.0	-87.7	12.80	

Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			Total volume removed: 6 (gal) (L)		
Sample method: Disp Bailer Ded. Tubing <b>New Tubing</b> Ext. Port Other:					
Sample date: 5/12/08		Sample time: 1125		DTW at sample: 12.80	
Sample ID: MW-7		Lab: Kiff		Number of bottles: 12	
Analysis: See COC					

Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO:	Post purge DO:
Fe <sup>2+</sup> :		Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:		Volume removed: ml

## Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: AW-8	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 14.58 Total Depth: 28.10	
Purge equip: ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: <u>1/4"</u> New Dedicated NA	
Purge method: 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:		
Pump depth/ intake: <u>23'</u>	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)      80%= \_\_\_\_\_

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or ml / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1135	18.2	6.6	625	15.9	500	1.5 L	0.7	-41.8	14.70	
1138	18.3	6.6	674	14.1	8"	3.0 L	0.7	-47.0	14.70	
1141	18.3	6.7	742	11.8	"	4.5	0.9	-62.2	14.71	
1144	18.4	6.7	732	11.7	"	6.0	0.8	-68.2	14.72	
1147	18.3	6.7	725	11.6	"	7.5	0.7	-73.9	14.71	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>7.5</u> (gal/L)	
Sample method: Disp Bailor Ded. Tubing <u>New Tubing</u> Ext. Port Other:			
Sample date: 5/12/08	Sample time: <u>1150</u>	DTW at sample: <u>14.71</u>	
Sample ID: <u>AW-8</u>	Lab: Kiff	Number of bottles: <u>12</u>	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO:	Post purge DO:	
Fe <sup>2+</sup> :	Pre-purge ORP:	Post purge ORP:	
NAPL depth:	Volume of NAPL:	Volume removed:	ml





## Purging And Sampling Data Sheet

Job#: B1-080512	Sampler: J Brown	Client: Orion
Well ID: MW-9	Date: 5/12/2008	Site: Tesoro #67106, San Leandro
Well diam: 1/4" 1" 2" 3" <u>4"</u> 6" Other:	DTW: 13.27 Total Depth: 24.10	
Purge equip: ES - diam: Bladder <u>Peri</u> Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: <u>1/4"</u> New Dedicated NA	
Purge method: 3-5 Case Volume <u>Micro/Low-Flow</u> Extraction Other:		
Pump depth/ intake: 20'	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X 3 = \_\_\_\_\_ (Total Purge)                      80% = \_\_\_\_\_

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
1020	19.6	6.6	481	17.4	500	1.5L	0.7	-177.2	13.60	
1023	19.6	6.7	472	18.8	"	3.0	0.6	-189.5	13.75	
1026	19.5	6.8	469	18.2	"	4.5	0.5	-200.5	13.75	
1027	19.6	6.9	469	15.9	"	6.0	1.0	-215.7	13.75	
1032	19.5	6.9	469	15.2	"	7.5	1.1	-217.6	13.75	
1035	19.5	7.0	469	15.0	"	9.0	0.9	-222.5	13.75	
1038	19.6	7.0	468	15.1	"	10.5	0.9	-226.5	13.75	

Did well dewater? YES <u>NO</u>	Total volume removed: 10.5 (gal) <u>L</u>
Sample method: Disp Bailer Ded. Tubing <u>New Tubing</u> Ext. Port Other:	
Sample date: 5/12/08	Sample time: 1040 DTW at sample: 13.75
Sample ID: MW-9	Lab: Kiff Number of bottles: 12
Analysis: See COC	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: Post purge DO:
Fe <sup>2+</sup> :	Pre-purge ORP: Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml



**ATTACHMENT C**  
**HISTORICAL GROUNDWATER ELEVATIONS**

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-1	3/30/1992	13.58	33.10	19.52
	7/1/1992	14.80		18.30
	9/30/1992	16.12		16.98
	11/19/1992	16.34		16.76
	2/3/1993	12.61		20.49
	5/25/1993	13.12		19.98
	9/22/1993	14.18		18.92
	12/21/1993	14.36		18.74
	3/18/1994	13.64		19.46
	6/15/1994	14.30		18.80
	9/14/1994	15.18		17.92
	12/19/1994	13.79		19.31
	12/21/1994	13.86		19.24
	3/7/1995	12.74		20.36
	6/8/1995	12.95		20.15
	9/22/1995	13.94		19.16
	12/27/1995	13.57		19.53
	3/26/1996	12.13		20.97
	6/13/1996	13.10		20.00
	9/10/1996	14.08		19.02
	12/5/1996	13.41		19.69
	3/10/1997	12.70		20.40
	6/12/1997	13.68		19.42
	8/19/1997	14.31		18.79
	12/13/1997	13.19		19.91
	3/12/1998	11.09		22.01
	5/28/1998	11.36		21.74
	8/31/1998	12.61		20.49
	11/19/1998	13.84		19.26
	3/15/1999	11.95		21.15
6/7/1999	13.45	19.65		
9/7/1999	13.10	20.00		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-1 (cont.)	12/13/1999	14.29	33.10	18.81
	3/8/2000	11.22		21.88
	6/12/2000	12.85		20.25
	11/15/2000	14.19		18.91
	2/27/2001	12.35		20.75
	5/22/2001	14.18		18.92
	9/5/2001	13.70		19.40
	11/7/2001	14.25		18.85
	2/11/2002	13.05		35.47
	6/3/2002	13.31	22.16	
	8/6/2002	13.75	21.72	
	11/14/2002	14.10	21.37	
	2/20/2003	12.80	22.67	
	5/15/2003	12.90	22.57	
	7/31/2003	13.50	21.97	
	10/28/2003	14.42	21.05	
	2/28/2004	12.72	22.75	
	4/16/2004	13.52	21.95	
	7/16/2004	14.04	21.43	
	11/13/2004	13.99	21.48	
	2/4/2005	13.36	22.11	
	4/8/2005	12.43	23.04	
	8/10/2005	13.62	21.85	
	11/5/2005	13.95	21.52	
	1/13/2006	12.43	23.04	
	5/12/2006	12.40	23.07	
	8/13/2006	13.08	22.39	
	10/20/2006	13.58	21.89	
	2/12/2007	12.94	22.53	
	4/25/2007	13.35	22.12	
7/23/2007	14.00	21.47		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-1 (cont.)	10/24/2007	14.15	35.47	21.32
	1/27/2008	12.24		23.23
	5/12/2008	13.90		21.57
MW-2	3/30/1992	13.32	32.80	19.48
	7/1/1992	14.42		18.38
	9/30/1992	15.78		17.02
	11/19/1992	15.99		16.81
	2/3/1993	12.31		20.49
	5/25/1993	12.97		19.83
	9/22/1993	14.32		18.48
	12/21/1993	14.52		18.28
	3/18/1994	13.45		19.35
	6/15/1994	14.07		18.73
	9/14/1994	14.96		17.84
	12/19/1994	13.64		19.16
	12/21/1994	13.71		19.09
	3/7/1995	12.54		20.26
	6/8/1995	12.81		19.99
	9/22/1995	13.66		19.14
	12/27/1995	13.42		19.38
	3/26/1996	12.05		20.75
	6/13/1996	12.79		20.01
	9/10/1996	13.73		19.07
	12/5/1996	13.29		19.51
	3/10/1997	12.42		20.38
	6/12/1997	13.18		19.62
8/19/1997	13.94	18.86		
12/13/1997	12.91	19.89		
3/12/1998	10.92	21.88		
5/28/1998	10.41	22.39		
8/31/1998	12.29	20.51		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)	
MW-2 (cont.)	11/19/1998	13.47	32.80	19.33	
	3/15/1999	11.95		20.85	
	6/7/1999	13.11		19.69	
	9/7/1999	12.92		19.88	
	12/13/1999	13.96		18.84	
	3/8/2000	10.87		21.93	
	6/12/2000	12.53		20.27	
	11/15/2000	13.96		18.84	
	2/27/2001	12.29		20.51	
	5/22/2001	15.51		17.29	
	9/5/2001	13.75		19.05	
	11/7/2001	13.99		18.81	
	2/11/2002	12.98		35.11	22.13
	6/3/2002	13.24			21.87
	8/6/2002	13.73	21.38		
	11/14/2002	13.55	21.56		
	2/20/2003	11.80	23.31		
	5/15/2003	12.27	22.84		
	7/31/2003	13.46	21.65		
	10/28/2003	14.09	21.02		
	2/28/2004	12.27	22.84		
	4/16/2004	13.22	21.89		
	7/16/2004	13.76	21.35		
	11/13/2004	13.79	21.32		
	2/4/2005	13.08	22.03		
	4/8/2005	12.11	23.00		
	8/10/2005	13.27	21.84		
	11/5/2005	11.92	23.19		
	1/13/2006	12.26	22.85		
	5/12/2006	11.64	23.47		
	8/13/2006	12.80	22.31		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-2 (cont.)	10/20/2006	13.31	35.11	21.80
	2/12/2007	12.81		22.30
	4/25/2007	13.10		22.01
	7/23/2007	13.69		21.42
	10/24/2007	13.84		21.27
	1/27/2008	12.32		22.79
	5/12/2008	13.57		21.54
MW-3	3/30/1992	12.96	32.30	19.34
	7/1/1992	14.00		18.30
	9/30/1992	15.36		16.94
	11/19/1992	15.57		16.73
	2/3/1993	11.96		20.34
	5/25/1993	14.12		18.18
	9/22/1993	13.88		18.42
	12/21/1993	14.12		18.18
	3/18/1994	13.04		19.26
	6/15/1994	13.65		18.65
	9/14/1994	14.54		17.76
	12/19/1994	13.28		19.02
	12/21/1994	13.30		19.00
	3/7/1995	12.26		20.04
	6/8/1995	12.42		19.88
	9/22/1995	13.25		19.05
	12/27/1995	13.04		19.26
	3/26/1996	11.62		20.68
	6/13/1996	12.61		19.69
	9/10/1996	13.49		18.81
12/5/1996	13.07	19.23		
3/10/1997	12.23	20.07		
6/12/1997	12.94	19.36		
8/19/1997	12.85	19.45		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-3 (cont.)	12/13/1997	12.45	32.30	19.85
	3/12/1998	10.81		21.49
	5/28/1998	11.45		20.85
	8/31/1998	12.21		20.09
	11/19/1998	13.26		19.04
	3/15/1999	11.89		20.41
	6/7/1999	12.91		19.39
	9/7/1999	12.81		19.49
	12/13/1999	13.75		18.55
	3/8/2000	11.39		20.91
	6/12/2000	12.58		19.72
	11/15/2000	13.85		18.45
	2/27/2001	12.22		20.08
	5/22/2001	13.66		18.64
	9/5/2001	13.41		18.89
	11/7/2001	13.85	18.45	
	2/11/2002	12.86	34.84	21.98
	6/3/2002	13.10		21.74
	8/6/2002	13.52		21.32
	11/14/2002	13.49		21.35
	2/20/2003	12.92		21.92
	5/15/2003	12.83		22.01
	7/31/2003	13.44		21.40
	10/28/2003	13.92		20.92
	2/28/2004	12.50		22.34
	4/16/2004	13.07		21.77
	7/16/2004	13.62		21.22
	11/13/2004	13.70		21.14
	2/4/2005	12.94		21.90
	4/8/2005	12.10		22.74
8/10/2005	13.19	21.65		



TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-3 (cont.)	11/5/2005	13.46	34.84	21.38
	1/13/2006	12.20		22.64
	5/12/2006	11.79		23.05
	8/13/2006	12.66		22.18
	10/20/2006	13.19		21.65
	2/12/2007	12.74		22.10
	4/25/2007	12.99		21.85
	7/23/2007	13.55		21.29
	10/24/2007	13.72		21.12
	1/27/2008	12.51		22.33
	5/12/2008	13.35		21.49
MW-4	3/30/1992	13.60	32.90	19.30
	7/1/1992	15.72		17.18
	9/30/1992	16.04		16.86
	11/19/1992	16.21		16.69
	2/3/1993	12.70		20.20
	5/25/1993	12.97		19.93
	9/22/1993	14.51		18.39
	12/21/1993	14.75		18.15
	3/18/1994	13.68		19.22
	6/15/1994	14.37		18.53
	9/14/1994	15.23		17.67
	12/19/1994	13.93		18.97
	12/21/1994	13.99		18.91
	3/7/1995	12.86		20.04
	6/8/1995	13.10		19.80
	9/22/1995	13.98		18.92
	12/27/1995	13.74		19.16
	3/26/1996	12.30		20.60
6/13/1996	13.18	19.72		
9/10/1996	14.22	18.68		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-4 (cont.)	12/5/1996	13.65	32.90	19.25
	3/10/1997	12.79		20.11
	6/12/1997	13.51		19.39
	8/19/1997	14.29		18.61
	12/13/1997	13.43		19.47
	3/12/1998	11.31		21.59
	5/28/1998	10.40		22.50
	8/31/1998	12.54		20.36
	11/19/1998	13.99		18.91
	3/15/1999	12.06		20.84
	6/7/1999	13.57		19.33
	9/7/1999	10.30		22.60
	12/13/1999	14.18		18.72
	3/8/2000	11.77		21.13
	6/12/2000	13.47		19.43
	11/15/2000	14.33		18.57
	2/27/2001	14.25		18.65
	5/22/2001	13.99		18.91
	9/5/2001	15.75		17.15
	11/7/2001	16.10		16.80
	2/11/2002	15.04	35.33	20.29
	6/3/2002	13.61		21.72
	8/6/2002	15.01		20.32
	11/14/2002	13.98		21.35
	2/20/2003	13.33		22.00
	5/15/2003	13.29		22.04
	7/31/2003	13.76		21.57
	10/28/2003	14.48		20.85
	2/28/2004	12.96		22.37
	4/16/2004	13.57		21.76
	7/16/2004	14.16		21.17

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-4 (cont.)	11/13/2004	14.34	35.33	20.99
	2/4/2005	13.56		21.77
	4/8/2005	12.65		22.68
	8/10/2005	13.73		21.60
	11/5/2005	14.35		20.98
	1/13/2006	12.76		22.57
	5/12/2006	12.56		22.77
	8/13/2006	13.30		22.03
	10/20/2006	13.78		21.55
	2/12/2007	13.21		22.12
	4/25/2007	13.58		21.75
	7/23/2007	14.19		21.14
	10/24/2007	14.23		21.10
	1/27/2008	12.63		22.70
	5/12/2008	13.98		21.35
MW-5	3/30/1992	13.48	32.70	19.22
	7/1/1992	14.58		18.12
	9/30/1992	15.82		16.88
	11/19/1992	16.00		16.70
	2/3/1993	12.40		20.30
	5/25/1993	13.01		19.69
	9/22/1993	14.37		18.33
	12/21/1993	14.58		18.12
	3/18/1994	13.53		19.17
	6/15/1994	14.18		18.52
	9/14/1994	15.07		17.63
	12/19/1994	13.74		18.96
	12/21/1994	13.84		18.86
	3/7/1995	12.73		19.97
	6/8/1995	12.99		19.71
9/22/1995	13.83	18.87		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-5 (cont.)	12/27/1995	13.59	32.70	19.11
	3/26/1996	12.20		20.50
	6/13/1996	12.98		19.72
	9/10/1996	13.96		18.74
	12/5/1996	13.36		19.34
	3/10/1997	12.74		19.96
	6/12/1997	13.06		19.64
	8/19/1997	14.21		18.49
	12/13/1997	13.51		19.19
	3/12/1998	11.11		21.59
	5/28/1998	10.92		21.78
	8/31/1998	12.79		19.91
	11/19/1998	13.39		19.31
	3/15/1999	11.71		20.99
	6/7/1999	13.26		19.44
	9/7/1999	9.70		23.00
	12/13/1999	14.06		18.64
	3/8/2000	11.80		20.90
	6/12/2000	12.99		19.71
	11/15/2000	14.23		18.47
	2/27/2001	12.66	20.04	
	5/22/2001	13.58	19.12	
	9/5/2001	14.05	18.65	
	11/7/2001	14.32	18.38	
	2/11/2002	13.31	35.09	21.78
	6/3/2002	13.55		21.54
	8/6/2002	14.10		20.99
	11/14/2002	14.03		21.06
	2/20/2003	13.35		21.74
	5/15/2003	13.11		21.98
7/31/2003	13.88	21.21		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-5 (cont.)	10/28/2003	14.41	35.09	20.68
	2/28/2004	12.89		22.20
	4/16/2004	13.41		21.68
	7/16/2004	13.92		21.17
	11/13/2004	14.35		20.74
	2/4/2005	13.48		21.61
	4/8/2005	12.42		22.67
	8/10/2005	13.36		21.73
	11/5/2005	13.96		21.13
	1/13/2006	12.53		22.56
	5/12/2006	12.26		22.83
	8/13/2006	13.05		22.04
	10/20/2006	13.52		21.57
	2/12/2007	13.04		22.05
	4/25/2007	13.40		21.69
	7/23/2007	13.95		21.14
	10/24/2007	14.09		21.00
	1/27/2008	12.46		22.63
5/12/2008	13.72	21.37		
MW-6	3/30/1992	12.62	30.40	17.78
	7/1/1992	12.70		17.70
	9/30/1992	13.40		17.00
	11/19/1992	13.59		16.81
	2/3/1993	12.43		17.97
	5/25/1993	-- <sup>(c)</sup>		--
	9/22/1993	12.82		17.58
	12/21/1993	13.06		17.34
	3/18/1994	12.16		18.24
	6/15/1994	12.59		17.81
	9/14/1994	12.86		17.54
	12/19/1994	12.48		17.92

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-6 (cont.)	12/21/1994	11.61	30.40	18.79
	3/7/1995	12.37		18.03
	6/8/1995	11.14		19.26
	9/22/1995	12.44		17.96
	12/27/1995	12.21		18.19
	3/26/1996	12.26		18.14
	6/13/1996	12.55		17.85
	9/10/1996	12.31		18.09
	12/5/1996	12.22		18.18
	3/10/1997	12.19		18.21
	6/12/1997	12.28		18.12
	8/19/1997	12.30		18.10
	12/13/1997	11.93		18.47
	3/12/1998	10.49		19.91
	5/28/1998	10.58		19.82
	8/31/1998	10.85		19.55
	11/19/1998	10.88		19.52
	3/15/1999	10.83		19.57
	6/7/1999	11.01		19.39
	9/7/1999	11.89		18.51
	12/13/1999	12.09		18.31
	3/8/2000	10.02		20.38
	6/12/2000	11.07		19.33
	11/15/2000	12.34		18.06
	2/27/2001	10.75		19.65
	5/22/2001	11.55		18.85
	9/5/2001	12.10		18.30
	11/7/2001	12.31	18.09	
2/11/2002	11.05	32.74	21.69	
6/3/2002	11.70		21.04	
8/6/2002	12.28		20.46	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-6 (cont.)	11/14/2002	12.46	32.74	20.28
	2/20/2003	11.26		21.48
	5/15/2003	11.85		20.89
	7/31/2003	11.73		21.01
	10/28/2003	12.38		20.36
	2/28/2004	11.88		20.86
	4/16/2004	11.85		20.89
	7/16/2004	12.84		19.90
	11/13/2004	12.13		20.61
	2/4/2005	11.14		21.60
	4/8/2005	10.94		21.80
	8/10/2005	11.42		21.32
	11/5/2005	11.90		20.84
	1/13/2006	10.70		22.04
	5/12/2006	10.63		22.11
	8/13/2006	11.08		21.66
	10/20/2006	11.58		21.16
	2/12/2007	11.22		21.52
	4/25/2007	11.43		21.31
	7/23/2007	11.98		20.76
10/24/2007	12.15	20.59		
1/27/2008	11.25	21.49		
5/12/2008	11.70	21.04		
MW-7	3/30/1992	12.34	31.20	18.86
	7/1/1992	15.24		15.96
	9/30/1992	14.64		16.56
	11/19/1992	14.80		16.40
	2/3/1993	11.36		19.84
	5/25/1993	--		--
	9/22/1993	13.18		18.02
	12/21/1993	13.42		17.78

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	3/18/1994	12.36	31.20	18.84
	6/15/1994	13.01		18.19
	9/14/1994	13.88		17.32
	12/19/1994	12.61		18.59
	12/21/1994	12.38		18.82
	3/7/1995	11.56		19.64
	6/8/1995	11.82		19.38
	9/22/1995	12.67		18.53
	12/27/1995	12.34		18.86
	3/26/1996	11.03		20.17
	6/13/1996	11.76		19.44
	9/10/1996	12.71		18.49
	12/5/1996	12.32		18.88
	3/10/1997	11.38		19.82
	6/12/1997	12.28		18.92
	8/19/1997	12.92		18.28
	12/13/1997	11.69		19.51
	3/12/1998	10.14		21.06
	5/28/1998	10.93		20.27
	8/31/1998	12.01		19.19
	11/19/1998	12.54		18.66
	3/15/1999	10.94		20.26
	6/7/1999	12.05		19.15
	9/7/1999	12.67		18.53
	12/13/1999	12.73		18.47
	3/8/2000	10.90		20.30
	6/12/2000	12.61		18.59
	11/15/2000	13.06		18.14
2/27/2001	11.85	19.35		
5/22/2001	12.31	18.89		
9/5/2001	12.85	18.35		



TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	11/7/2001	12.75	31.20	18.45
	2/11/2002	NM <sup>(d)</sup>	33.64	--
	6/3/2002	12.58		21.06
	8/6/2002	12.93		20.71
	11/14/2002	13.04		20.60
	2/20/2003	12.75		20.89
	5/15/2003	12.45		21.19
	7/31/2003	12.80		20.84
	10/28/2003	NM		--
	2/28/2004	12.21		21.43
	4/16/2004	12.26		21.38
	7/16/2004	12.85		20.79
	11/13/2004	13.01		20.63
	2/4/2005	12.57		21.07
	4/8/2005	11.82		21.82
	8/10/2005	12.44		21.20
	11/5/2005	12.91		20.73
	1/13/2006	11.51		22.13
	5/12/2006	11.37		22.27
	8/13/2006	11.88		21.76
10/20/2006	12.32	21.32		
2/12/2007	12.21	21.43		
4/25/2007	12.33	21.31		
7/23/2007	13.00	20.64		
10/24/2007	13.11	20.53		
1/27/2008	12.19	21.45		
5/12/2008	12.61	21.03		
MW-8	3/30/1992	14.66	33.80	19.14
	7/1/1992	15.74		18.06
	9/30/1992	17.00		16.80
	11/19/1992	17.01		16.79

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-8 (cont.)	2/3/1993	13.83	33.80	19.97
	5/25/1993	13.01		20.79
	9/22/1993	15.81		17.99
	12/21/1993	16.05		17.75
	3/18/1994	14.62		19.18
	6/15/1994	15.29		18.51
	9/14/1994	16.22		17.58
	12/19/1994	14.81		18.99
	12/21/1994	14.89		18.91
	3/7/1995	13.75		20.05
	6/8/1995	13.98		19.82
	9/22/1995	14.92		18.88
	12/27/1995	14.61		19.19
	3/26/1996	13.09		20.71
	6/13/1996	13.81		19.99
	9/10/1996	14.80		19.00
	12/5/1996	14.05		19.75
	3/10/1997	13.40		20.40
	6/12/1997	14.31		19.49
	8/19/1997	13.85		19.95
	12/13/1997	13.92		19.88
	3/12/1998	11.81		21.99
	5/28/1998	12.14		21.66
	8/31/1998	13.16		20.64
	11/19/1998	14.56		19.24
	3/15/1999	12.40		21.40
	6/7/1999	14.06		19.74
	9/7/1999	14.01		19.79
12/13/1999	14.91	18.89		
3/8/2000	11.85	21.95		
6/12/2000	13.59	20.21		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-8 (cont.)	11/15/2000	14.94	33.80	18.86
	2/27/2001	NM		NM
	5/22/2001	NM		NM
	9/5/2001	14.68		19.12
	11/7/2001	15.10		18.70
	2/11/2002	14.06		36.08
	6/3/2002	14.25	21.83	
	8/6/2002	14.55	21.53	
	11/14/2002	14.73	21.35	
	2/20/2003	13.81	22.27	
	5/15/2003	13.68	22.40	
	7/31/2003	14.54	21.54	
	10/28/2003	15.09	20.99	
	2/28/2004	13.45	22.63	
	4/16/2004	14.19	21.89	
	7/16/2004	14.76	21.32	
	11/13/2004	14.91	21.17	
	2/4/2005	14.09	21.99	
	4/8/2005	13.11	22.97	
	8/10/2005	14.20	21.88	
	11/5/2005	14.79	21.29	
	1/13/2006	13.24	22.84	
	5/12/2006	12.97	23.11	
	8/13/2006	13.83	22.25	
	10/20/2006	14.33	21.75	
	2/12/2007	13.73	22.35	
	4/25/2007	14.19	21.89	
	7/23/2007	14.80	21.28	
10/24/2007	14.95	21.13		
1/27/2008	13.00	23.08		
5/12/2008	14.58	21.50		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-9	12/21/1994	13.76	32.56	18.80
	3/7/1995	12.79		19.77
	6/8/1995	12.96		19.60
	9/22/1995	13.73		18.83
	12/27/1995	13.53		19.03
	3/26/1996	12.27		20.29
	6/13/1996	12.84		19.72
	9/10/1996	13.49		19.07
	12/5/1996	13.18		19.38
	3/10/1997	12.25		20.31
	6/12/1997	12.70		19.86
	8/19/1997	17.89		14.67
	12/13/1997	15.79		16.77
	3/12/1998	10.93		21.63
	5/28/1998	11.31		21.25
	8/31/1998	12.16		20.40
	11/19/1998	11.04		21.52
	3/15/1999	11.81		20.75
	6/7/1999	12.21		20.35
	9/7/1999	10.10		22.46
	12/13/1999	13.64		18.92
	3/8/2000	10.88		21.68
	6/12/2000	12.50		20.06
	11/15/2000	13.60		18.96
	2/27/2001	12.15		20.41
	5/22/2001	13.20		19.36
	9/5/2001	13.10	19.46	
	11/7/2001	13.85	18.71	
2/11/2002	12.98	34.63	21.65	
6/3/2002	12.48		22.15	
8/6/2002	13.16		21.47	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS  
TESORO - SAN LEANDRO, 67106

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-9 (cont.)	11/14/2002	13.15	34.63	21.48
	2/20/2003	12.46		22.17
	5/15/2003	12.26		22.37
	7/31/2003	12.94		21.69
	10/28/2003	13.83		20.80
	2/28/2004	12.59		22.04
	4/16/2004	13.04		21.59
	7/16/2004	13.52		21.11
	11/13/2004	13.68		20.95
	2/4/2005	13.04		21.59
	4/8/2005	12.17		22.46
	8/10/2005	13.04		21.59
	11/5/2005	13.55		21.08
	1/13/2006	12.30		22.33
	5/12/2006	Blocked <sup>(e)</sup>		--
	8/13/2006	12.66		21.97
	10/20/2006	13.14		21.49
	2/12/2007	12.73		21.90
	4/25/2007	12.95		21.68
	7/23/2007	13.54		21.09
10/24/2007	13.71	20.92		
1/27/2008	12.22	22.41		
5/12/2008	13.27	21.36		

- (a) Elevation of PVC well casing (north edge) surveyed relative to mean sea level (MSL).  
Wells were surveyed by Cross Land Surveying, Inc., per AB 2886 requirements on 28 January 2004.  
City of Fremont Benchmark A 63, elevation is 53.970 feet above MSL.
- (b) Difference between "PVC Casing Elevation" and "Depth to Water."
- (c) "--" Not calculated.
- (d) NM = Well not measured.
- (e) Field logs noted well was plugged at 5 feet below top of casing on 5 May 1996.

**ATTACHMENT D**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-1	03/30/92	27,000	630	550	540	1,900	-- <sup>(b)</sup>	--	--	--	--
	07/01/92	55,000	840	1,000	830	3,600	--	--	--	--	--
	09/30/92	6,400	150	95	120	470	--	--	--	--	--
	11/19/92	1,300	90	11	50	87	--	--	--	--	--
	02/03/93	53,000	750	560	950	5,700	--	--	--	--	--
	05/25/93	9,400	200	86	470	1,500	--	--	--	--	--
	09/22/93	41,000	1,000	510	850	1,100	--	--	--	--	--
	12/21/93	41,000	1,000	490	2,700	13,000	--	--	--	--	--
	03/18/94	9,500	320	160	830	2,900	--	--	--	--	--
	06/15/94	8,000	310	80	990	2,300	--	--	--	--	--
	09/14/94	3,600	130	31	390	630	--	--	--	--	--
	12/19/94	17,000	350	150	1,500	5,200	--	--	--	--	--
	03/07/95	12,000	180	62	1,200	3,200	--	--	--	--	--
	06/08/95	6,300	76	8.0	560	860	--	--	--	--	--
	09/22/95	12,000	140	55	1,500	2,500	--	--	--	--	--
	12/27/95	3,900	60	13	480	870	--	--	--	--	--
	03/26/96	6,400	42	4.9	560	600	--	--	--	--	--
	06/13/96	9,600	86	39	1,100	1,700	ND<50 <sup>(c)</sup>	--	--	--	--
	09/10/96	16,000	65	35	1,500	2,700	ND<50	--	--	--	--
	12/05/96	6,400	25	11	570	930	ND<25	--	--	--	--
03/10/97	15,000	42	ND<5	1,400	1,500	ND<50	--	--	--	--	
06/12/97	16,000	33	34	1,100	1,700	ND<100	--	--	--	--	
08/19/97	17,000	47	14	1,300	2,200	ND<100	--	--	--	--	
12/13/97	5,800	20	35	360	470	ND<100	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-1 (cont.)	03/12/98	100	ND<0.5	ND<0.5	5.0	2.8	ND<5	--	--	--	--
	05/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/31/98	130	ND<0.5	ND<0.5	6.4	1.4	ND<5	--	--	--	--
	11/19/98	120	0.75	ND<0.5	ND<0.5	3.0	ND<5	--	--	--	--
	03/15/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/07/99	5,200	1.6	1.9	230	110	ND<5	--	--	--	--
	09/07/99	490	1.0	ND<0.5	22	15	ND<5	--	--	--	--
	12/13/99	4,100	ND<2.5	ND<2.5	170	110	ND<25	--	--	--	--
	03/08/00	1,200	ND<0.5	ND<0.5	21	7.7	150	--	--	--	--
	06/12/00	3,000	1.5	0.90	160	98	34	--	--	--	--
	11/15/00	8,500	ND<20	ND<20	470	390	14,000	--	--	--	--
	02/27/01	6,100	5.4	2.6	260	190	4,300	--	--	--	--
	05/22/01	21,000	8.9	13	1,100	1,300	2,300	--	--	--	--
	09/05/01	12,000	ND<2	3.6	600	850	93	--	--	--	--
	11/07/01	23,000	ND<5	ND<5	1,300	1,600	87	--	--	--	--
	02/11/02	4,500	ND<0.5	ND<0.5	140	150	18	--	--	--	--
	06/03/02	12,000	ND<2.5	ND<2.5	520	460	12	--	--	--	--
	08/06/02	22,000	ND<0.5	ND<0.5	710	580	15	--	--	--	--
	11/14/02	16,000	ND<5	ND<5	300	250	8.1	ND<5	ND<5	ND<5	ND<50
	02/20/03	7,300	ND<1.5	ND<1.5	130	89	9.3	ND<1.5	ND<1.5	ND<1.5	ND<15
05/15/03	14,000	ND<2.5	ND<2.5	270	120	4.7	ND<2.5	ND<2.5	ND<2.5	ND<25	
07/31/03	18,000	ND<5	ND<5	380	230	5.2	ND<5	ND<5	ND<5	ND<50	
10/28/03	17,000	ND<5	ND<5	340	210	ND<5	ND<5	ND<5	ND<5	ND<50	
02/28/04	10,000	ND<2	ND<2	140	48	4.8	ND<2	ND<2	ND<2	ND<20	



TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-1 (cont.)	04/16/04	2,800	ND<0.5	ND<0.5	29	11	2.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/16/04	5,500	ND<0.5	0.57	130	74	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	4,000	ND<0.7	ND<0.7	56	25	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<7
	02/04/05	9,700	0.57	ND<0.5	140	58	0.75	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/08/05	8,100	ND<1.5	ND<1.5	84	24	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7
	08/10/05	8,700	ND<1.5	ND<1.5	92	32	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7
	11/05/05	9,200	ND<1.5	ND<1.5	92	38	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7
	01/13/06	6,500	ND<1.5	ND<1.5	34	17	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7
	05/12/06	3,600	ND<0.5	1.0	26	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/13/06	5,200	ND<0.5	0.57	40	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	5,300	ND<0.5	0.61	52	16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/12/07	3,500	ND<0.5	ND<0.5	12	2.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/25/07	3,400	ND<0.5	ND<0.5	15	3.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/23/07	5,400	ND<0.5	0.61	24	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/07	3,500	ND<0.5	ND<0.5	13	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
01/27/08	690	ND<0.5	0.52	1.8	0.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
05/12/08	600	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-2	03/30/92	52,000	2,300	1,700	940	3,300	--	--	--	--	--
	07/01/92	130,000	3,500	2,900	1,900	7,900	--	--	--	--	--
	09/30/92	24,000	890	350	500	1,700	--	--	--	--	--
	11/19/92	32,000	1,900	1,700	870	3,400	--	--	--	--	--
	02/03/93	64,000	1,900	2,200	860	4,100	--	--	--	--	--
	05/25/93	34,000	3,300	1,500	1,300	5,900	--	--	--	--	--
	09/22/93	8,000	640	150	270	2,000	--	--	--	--	--

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-2 (cont.)	12/21/93	18,000	1,500	410	1,300	5,000	--	--	--	--	--
	03/18/94	14,000	1,600	790	1,100	3,700	--	--	--	--	--
	06/15/94	13,000	1,600	580	1,200	4,100	--	--	--	--	--
	09/14/94	20,000	1,600	560	1,800	6,400	--	--	--	--	--
	12/19/94	19,000	1,700	750	1,600	5,800	--	--	--	--	--
	03/07/95	17,000	1,900	980	1,300	5,100	--	--	--	--	--
	06/08/95	19,000	2,100	740	1,500	4,900	--	--	--	--	--
	09/22/95	12,000	840	170	1,100	3,400	--	--	--	--	--
	12/27/95	16,000	1,100	540	1,400	5,100	--	--	--	--	--
	03/26/96	11,000	930	520	970	3,000	--	--	--	--	--
	06/13/96	11,000	1,800	1,400	1,500	4,500	1,200	--	--	--	--
	09/10/96	19,000	1,600	600	1,600	5,000	1,100	--	--	--	--
	12/05/96	12,000	650	180	1,000	2,800	180	--	--	--	--
	03/10/97	6,800	430	95	590	1,800	69	--	--	--	--
	06/12/97	20,000	610	140	1,500	4,300	100	--	--	--	--
	08/19/97	3,600	250	10	250	250	ND<100	--	--	--	--
	12/13/97	8,300	370	150	450	1,600	75	--	--	--	--
	03/12/98	440	32	1.0	12	6.5	20	--	--	--	--
	05/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	--	--	--	--
	08/31/98	270	9.3	0.95	4.9	8.8	20	--	--	--	--
11/19/98	180	16	0.72	ND<0.5	4.3	7.4	--	--	--	--	
03/15/99	2,400	12	3.5	59	840	10	--	--	--	--	
06/07/99	690	21	0.99	6.9	10	6.1	--	--	--	--	
09/07/99	610	7.8	1.2	42	100	ND<5	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-2 (cont.)	12/13/99	3,000	26	0.93	52	96	ND<5	--	--	--	--
	03/08/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/00	5,500	51	17	170	320	18	--	--	--	--
	11/15/00	16,000	75	48	1,200	2,800	19,000	--	--	--	--
	02/27/01	10,000	54	24	320	870	6,000	--	--	--	--
	05/22/01	2,400	12	5.0	79	100	3,500	--	--	--	--
	09/05/01	34,000	120	180	1,500	5,100	400	--	--	--	--
	11/07/01	32,000	87	170	1,400	3,700	870	--	--	--	--
	02/11/02	34,000	170	250	1,600	4,700	390	--	--	--	--
	06/03/02	29,000	130	260	1,700	5,100	110	--	--	--	--
	08/06/02	34,000	110	240	1,700	4,700	84	--	--	--	--
	11/14/02	35,000	51	150	1,300	3,600	39	--	--	--	--
	02/20/03	23,000	67	130	1,100	2,800	71	--	--	--	--
	05/15/03	19,000	57	110	840	2,300	43	--	--	--	--
	07/31/03	31,000	78	210	2,000	5,000	36	--	--	--	--
	10/28/03	32,000	59	120	2,000	3,600	19	--	--	--	--
	02/28/04	10,000	21	26	520	980	35	--	--	--	--
	04/16/04	11,000	30	30	540	890	30	--	--	--	23
	07/16/04	21,000	42	36	1,200	2,300	17	--	--	--	--
	11/13/04	14,000	25	27	780	1,300	9.1	ND<2.5	ND<2.5	ND<2.5	ND<15
02/04/05	14,000	24	20	720	1,000	8.6	ND<2.5	ND<2.5	ND<2.5	ND<15	
04/08/05	14,000	19	11	580	630	7.9	ND<2.5	ND<2.5	ND<2.5	ND<15	
08/10/05	13,000	21	11	610	520	7.6	ND<2.5	ND<2.5	ND<2.5	ND<15	
11/05/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-2 (cont.)	01/13/06	6,800	17	7.8	220	230	3.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/06	1,400	2.3	1.6	39	34	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/13/06	7,700	17	6.4	520	160	3.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	8,800	22	7.6	620	140	3.1	ND<1.5	ND<1.5	ND<1.5	ND<7
	02/12/07	7,700	24	8.5	450	110	2.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/25/07	9,400	22	8.7	620	100	ND<2	ND<2	ND<2	ND<2	ND<9
	07/23/07	9,100	13	7.5	640	98	0.60	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/07	8,800	6.4	4.8	520	85	ND<1.5	ND<1.5	ND<1.5	ND<1.5	NA
	01/27/08	8,100	5.4	5.3	350	130	ND<1.5	ND<1.5	ND<1.5	ND<1.5	7.2
05/12/08	7,300	7.0	3.4	310	21	ND<1.5	ND<1.5	ND<1.5	ND<1.5	ND<7	
MW-3	03/30/92	21,000	560	50	630	980	--	--	--	--	--
	07/01/92	13,000	150	20	22	300	--	--	--	--	--
	09/30/92	4,500	53	2.6	84	96	--	--	--	--	--
	11/19/92	4,700	73	6.2	140	120	--	--	--	--	--
	02/03/93	23,000	220	40	430	740	--	--	--	--	--
	05/25/93	9,900	120	26	370	520	--	--	--	--	--
	09/22/93	10,000	370	71	320	640	--	--	--	--	--
	12/21/93	7,800	130	8.5	430	380	--	--	--	--	--
	03/18/94	3,100	22	1.3	78	41	--	--	--	--	--
	06/15/94	1,700	8.6	1.4	22	15	--	--	--	--	--
	09/14/94	1,400	3.8	ND<1.3	13	18	--	--	--	--	--
	12/19/94	3,800	70	1.7	140	110	--	--	--	--	--
	03/07/95	2,200	9.4	ND<1.3	30	21	--	--	--	--	--
06/08/95	1,700	5.8	ND<1.3	2.3	14	--	--	--	--	--	

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-3 (cont.)	09/22/95	1,200	ND<1.3	ND<1.3	1.3	ND<1.3	--	--	--	--	--
	12/27/95	1,300	2.4	ND<1.3	3.3	3.6	--	--	--	--	--
	03/26/96	1,200	4.3	ND<1.3	4.2	2.0	--	--	--	--	--
	06/13/96	1,300	5.1	ND<0.5	21	6.5	28	--	--	--	--
	09/10/96	810	1.4	4.8	1.6	2.1	ND<5	--	--	--	--
	12/05/96	590	ND<0.5	3.2	0.79	0.52	ND<5	--	--	--	--
	03/10/97	650	0.73	3.8	2.4	1.6	ND<5	--	--	--	--
	06/12/97	710	ND<0.5	3.5	2.9	3.6	ND<5	--	--	--	--
	08/19/97	1,400	2.2	0.58	11	34	13	--	--	--	--
	12/13/97	810	0.96	ND<0.5	0.54	1.8	ND<5	--	--	--	--
	03/12/98	1,200	0.67	ND<0.5	7.1	3.4	7.3	--	--	--	--
	05/28/98	350	ND<0.5	0.50	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/31/98	240	ND<0.5	0.89	0.69	ND<0.5	ND<5	--	--	--	--
	11/19/98	440	5.3	0.72	0.86	4.2	ND<5	--	--	--	--
	03/15/99	410	3.3	1.3	0.77	ND<0.5	ND<5	--	--	--	--
	06/07/99	680	ND<0.5	2.0	ND<0.5	0.66	ND<5	--	--	--	--
	09/07/99	150	ND<0.5	0.62	ND<0.5	8.7	12	--	--	--	--
	12/13/99	830	ND<0.5	0.52	ND<0.5	1.0	ND<5	--	--	--	--
	03/08/00	960	0.58	ND<0.5	0.77	ND<0.5	ND<5	--	--	--	--
	06/12/00	1,700	1.7	ND<0.5	46	6.3	ND<5	--	--	--	--
11/15/00	ND<20,000	ND<200	ND<200	ND<200	ND<200	84,000	--	--	--	--	
02/27/01	3,500	98	ND<20	130	30	16,000	--	--	--	--	
05/22/01	ND<2,000	41	ND<20	20	ND<20	5,800	--	--	--	--	
09/05/01	5,300	9.9	1.5	49	8.2	430	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-3 (cont.)	11/07/01	6,500	9.4	1.8	47	8.8	1,600	--	--	--	--
	02/11/02	2,400	8.9	ND<2	14	ND<2	530	--	--	--	--
	06/03/02	2,100	13	0.77	19	0.94	110	--	--	--	--
	08/06/02	2,800	25	2.5	12	1.1	120	--	--	--	--
	11/14/02	2,200	29	0.89	3.7	ND<0.5	420	ND<0.5	ND<0.5	1.1	19
	02/20/03	2,400	2.5	ND<0.5	ND<0.5	ND<0.5	340	ND<0.5	ND<0.5	ND<0.5	13
	05/15/03	2,100	2.0	ND<0.5	1.2	ND<0.5	200	ND<0.5	ND<0.5	0.85	15
	07/31/03	1,600	1.2	ND<0.5	ND<0.5	ND<0.5	330	ND<0.5	ND<0.5	0.81	15
	10/28/03	1,600	1.0	ND<0.5	ND<0.5	ND<0.5	160	ND<0.5	ND<0.5	ND<0.5	7.1
	02/28/04	1,400	1.2	ND<0.5	0.74	ND<0.5	58	ND<0.5	ND<0.5	ND<0.5	74
	04/16/04	1,400	1.2	ND<0.5	ND<0.5	ND<0.5	45	ND<0.5	ND<0.5	ND<0.5	95
	07/16/04	1,900	6.1	1.1	ND<0.5	0.83	43	ND<0.5	ND<0.5	ND<0.5	21
	11/13/04	1,300	4.7	0.79	ND<0.5	ND<0.5	30	ND<0.5	ND<0.5	ND<0.5	82
	02/04/05	1,300	0.79	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	ND<0.5	ND<0.5	12
	04/08/05	770	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	1,600	3.4	0.61	0.57	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	11
	11/05/05	2,200	7.1	1.0	2.7	0.75	3.6	ND<0.5	ND<0.5	ND<0.5	13
	01/13/06	1,200	5.0	1.1	4.9	1.2	3.1	ND<0.5	ND<0.5	ND<0.5	9.8
	05/12/06	960	2.4	1.2	1.8	1.1	2.1	ND<0.5	ND<0.5	ND<0.5	6.1
	08/13/06	1,700	2.2	0.62	1.6	1.0	1.1	ND<0.5	ND<0.5	ND<0.5	5.5
10/20/06	1,200	1.9	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
02/12/07	990	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	5.5	
04/25/07	760	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	6.1	
07/23/07	750	1.4	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-3 (cont.)	10/24/07	890	1.3	0.70	0.70	ND<0.5	0.84	ND<0.5	ND<0.5	ND<0.5	5.5
	01/27/08	1,200	1.4	1.1	3.3	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.3
	05/12/08	840	ND<0.5	ND<0.5	ND<0.5	0.59	0.76	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-4	03/30/92	76,000	8,000	4,400	730	2,500	--	--	--	--	--
	07/01/92	95,000	6,900	2,200	70	880	--	--	--	--	--
	09/30/92	58,000	7,100	1,500	650	2,700	--	--	--	--	--
	11/19/92	33,000	5,500	840	400	1,400	--	--	--	--	--
	02/03/93	130,000	8,200	6,700	940	4,400	--	--	--	--	--
	05/25/93	63,000	16,000	6,600	1,700	8,100	--	--	--	--	--
	09/22/93	23,000	6,900	940	150	3,000	--	--	--	--	--
	12/21/93	28,000	6,900	1,900	1,100	5,500	--	--	--	--	--
	03/18/94	58,000	17,000	6,300	2,500	10,000	--	--	--	--	--
	06/15/94	59,000	20,000	4,900	2,500	9,100	--	--	--	--	--
	09/14/94	73,000	22,000	6,800	2,700	10,000	--	--	--	--	--
	12/19/94	67,000	20,000	8,300	2,300	9,100	--	--	--	--	--
	03/07/95	57,000	19,000	7,900	2,200	8,700	--	--	--	--	--
	06/08/95	61,000	17,000	6,300	2,700	9,000	--	--	--	--	--
	09/22/95	37,000	12,000	2,200	1,400	3,500	--	--	--	--	--
	12/27/95	39,000	12,000	6,000	1,800	5,800	--	--	--	--	--
	03/26/96	31,000	9,600	3,700	2,300	6,200	--	--	--	--	--
	06/13/96	240	64	0.93	1.8	2.7	89	--	--	--	--
09/10/96	91,000	13,000	20,000	3,200	16,000	2,900	--	--	--	--	
12/05/96	16,000	3,700	3,100	580	2,800	1,200	--	--	--	--	
03/10/97	630	91	ND<0.5	ND<0.5	0.80	530	--	--	--	--	

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-4 (cont.)	06/12/97	36,000	4,600	5,300	1,200	5,500	1,100	--	--	--	--
	08/19/97	12,000	420	88	61	520	390	--	--	--	--
	12/13/97	4,800	560	740	130	1,100	360	--	--	--	--
	03/12/98	14,000	2,200	1,500	630	3,000	440	--	--	--	--
	05/28/98	67	ND<0.5	0.75	0.68	6.9	26	--	--	--	--
	08/31/98	ND<50	1.8	2.5	0.65	3.4	ND<5	--	--	--	--
	11/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	0.61	17	--	--	--	--
	03/15/99	160	1.2	1.6	0.76	4.5	9.3	--	--	--	--
	06/07/99	5,800	210	370	350	2,000	ND<20	--	--	--	--
	09/07/99	130	2.2	2.8	4.8	25	12	--	--	--	--
	12/13/99	ND<50	1.3	1.0	1.2	4.8	12	--	--	--	--
	03/08/00	3,700	78	200	160	750	11	--	--	--	--
	06/12/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	24	--	--	--	--
	11/15/00	710	12	38	28	130	1,300	--	--	--	--
	02/27/01	6,500	67	300	310	1,400	1,000	--	--	--	--
	05/22/01	130	2.1	5.6	4.8	20	350	--	--	--	--
	09/05/01	6,200	110	670	250	1,300	600	--	--	--	--
	11/07/01	4,100	40	270	180	940	110	--	--	--	--
	02/11/02	14,000	91	590	620	3,000	350	--	--	--	--
	06/03/02	4,300	69	390	190	1,100	240	--	--	--	--
08/06/02	13,000	100	690	570	2,900	170	--	--	--	--	
11/14/02	20,000	65	380	550	3,400	130	--	--	--	--	
02/20/03	18,000	57	240	650	3,700	98	--	--	--	--	
05/15/03	8,500	44	100	200	200	1,200	120	--	--	--	21



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**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-4 (cont.)	07/31/03	11,000	42	59	250	1,400	87	--	--	--	--
	10/28/03	8,100	80	40	130	650	130	--	--	--	20
	02/28/04	17,000	85	430	570	3,700	67	--	--	--	--
	04/16/04	19,000	72	420	570	3,800	60	--	--	--	--
	07/16/04	10,000	46	330	360	2,200	58	--	--	--	28
	11/13/04	9,400	50	240	360	2,200	22	ND<4	ND<4	ND<4	ND<20
	02/04/05	4,800	14	160	170	1,100	7.9	ND<4	ND<4	ND<4	ND<20
	04/08/05	5,800	15	160	200	1,200	6.6	ND<2	ND<2	ND<2	ND<20
	08/10/05	3,000	7.0	110	100	570	5.2	ND<0.5	ND<0.5	ND<0.5	9.9
	11/05/05	3,000	6.0	91	95	630	5.3	ND<0.5	ND<0.5	ND<0.5	9.1
	01/13/06	4,000	8.3	100	160	860	4.9	ND<0.9	ND<0.9	ND<0.9	6.7
	05/12/06	ND<50	ND<0.5	0.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/13/06	1,200	2.5	20	41	240	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	1,500	2.9	28	56	350	2.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/12/07	150	ND<0.5	0.58	1.5	3.3	3.1	ND<0.5	ND<0.5	ND<0.5	9.7
	04/25/07	340	0.83	4.6	10	26	4.8	ND<0.5	ND<0.5	ND<0.5	6.0
	07/23/07	1,000	2.6	4.1	42	43	3.0	ND<0.5	ND<0.5	ND<0.5	ND<5
10/24/07	2,100	4.7	32	78	230	2.1	ND<0.5	ND<0.5	ND<0.5	ND<5	
01/27/08	2,500	5.2	9.0	56	130	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
05/12/08	300	0.69	ND<0.5	1.4	4.2	0.98	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-5	03/30/92	29,000	2,600	980	390	1,100	--	--	--	--	--
	07/01/92	52,000	2,400	1,000	5,200	2,000	--	--	--	--	--
	09/30/92	32,000	1,800	780	370	1,700	--	--	--	--	--
	11/19/92	7,800	1,000	280	120	370	--	--	--	--	--

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-5 (cont.)	02/03/93	74,000	3,500	3,000	780	3,200	--	--	--	--	--
	05/25/93	57,000	7,900	4,700	1,900	7,800	--	--	--	--	--
	09/22/93	52,000	7,600	2,400	1,200	8,800	--	--	--	--	--
	12/21/93	23,000	3,600	1,200	970	3,600	--	--	--	--	--
	03/18/94	47,000	8,200	5,000	1,400	6,100	--	--	--	--	--
	06/15/94	28,000	7,900	4,000	1,200	5,200	--	--	--	--	--
	09/14/94	32,000	8,000	5,100	1,400	5,600	--	--	--	--	--
	12/19/94	29,000	7,000	3,400	1,200	5,200	--	--	--	--	--
	03/07/95	36,000	9,800	5,800	1,800	7,800	--	--	--	--	--
	06/08/95	33,000	7,700	3,800	1,500	6,200	--	--	--	--	--
	09/22/95	39,000	9,500	3,800	1,900	7,000	--	--	--	--	--
	12/27/95	42,000	9,700	5,000	2,200	8,800	--	--	--	--	--
	03/26/96	37,000	9,800	4,900	2,300	8,800	--	--	--	--	--
	06/13/96	18,000	5,500	2,200	1,500	5,300	1,400	--	--	--	--
	09/10/96	22,000	5,600	1,400	1,100	3,500	860	--	--	--	--
	12/05/96	24,000	5,100	2,500	1,400	4,700	650	--	--	--	--
	03/10/97	28,000	6,800	2,700	1,300	5,700	760	--	--	--	--
	06/12/97	49,000	7,500	3,200	2,300	9,200	700	--	--	--	--
	08/19/97	24,000	4,700	990	1,400	4,500	1,600	--	--	--	--
	12/13/97	18,000	2,700	760	630	4,200	360	--	--	--	--
03/12/98	12,000	2,600	160	470	2,200	ND<250	--	--	--	--	
05/28/98	4,700	480	99	160	730	ND<250	--	--	--	--	
08/31/98	1,400	200	14	55	220	180	--	--	--	--	
11/19/98	ND<50	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	39	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-5 (cont.)	03/15/99	3,400	320	17	290	780	33	--	--	--	--
	06/07/99	3,200	220	8.9	240	290	ND<25	--	--	--	--
	09/07/99	140	8.5	ND<0.5	8.5	12	38	--	--	--	--
	12/13/99	140	ND<0.5	ND<0.5	ND<0.5	13	ND<5	--	--	--	--
	03/08/00	280	0.66	ND<0.5	2.5	30	ND<5	--	--	--	--
	06/12/00	2,700	22	1.2	79	170	6.4	--	--	--	--
	11/15/00	4,500	36	1.6	180	180	10	--	--	--	--
	02/27/01	2,800	33	1.6	160	220	110	--	--	--	--
	05/22/01	3,200	49	2.2	180	230	240	--	--	--	--
	09/05/01	2,400	28	1.0	100	100	560	--	--	--	--
	11/07/01	390	ND<2	ND<2	2.1	20	590	--	--	--	--
	02/11/02	1,200	19	ND<5	59	52	1,800	--	--	--	--
	06/03/02	3,200	44	ND<2	150	210	610	--	--	--	--
	08/06/02	3,200	42	ND<2	140	150	820	--	--	--	--
	11/14/02	2,900	29	1.3	94	100	560	--	--	--	100
	02/20/03	2,900	22	ND<1	81	77	270	--	--	--	170
	05/15/03	3,700	55	1.8	94	85	220	--	--	0.64	170
	07/31/03	2,400	45	1.1	26	19	200	--	--	--	180
	10/28/03	570	6.8	ND<0.5	4.4	1.1	77	--	--	--	8.0
	02/28/04	3,400	37	1.4	130	120	72	--	--	--	32
04/16/04	2,400	26	0.73	45	53	81	--	--	--	130	
07/16/04	2,100	24	0.85	36	20	71	--	--	--	46	
11/13/04	1,600	19	0.55	37	17	38	ND<0.5	ND<0.5	ND<0.5	59	
02/04/05	4,500	40	1.4	120	80	32	ND<0.5	ND<0.5	ND<0.5	43	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-5 (cont.)	04/08/05	67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/05/05	110	ND<0.5	ND<0.5	2.2	1.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	01/13/06	ND<50	ND<0.5	ND<0.5	1.2	ND<0.5	0.58	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.54	ND<0.5	ND<0.5	ND<0.5	28
	08/13/06	140	ND<0.5	ND<0.5	0.58	ND<0.5	0.66	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	320	0.76	ND<0.5	2.8	1.1	1.4	ND<0.5	ND<0.5	ND<0.5	5.9
	02/12/07	210	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	ND<0.5	ND<0.5	ND<0.5	6.4
	04/25/07	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	8.1
	07/23/07	700	0.72	ND<0.5	1.4	0.70	3.2	ND<0.5	ND<0.5	ND<0.5	8.9
	10/24/07	1,000	1.6	ND<0.5	2.1	0.60	2.5	ND<0.5	ND<0.5	ND<0.5	8.6
	01/27/08	1,900	14	0.78	34	6.0	4.9	ND<0.5	ND<0.5	ND<0.5	10
	05/12/08	1,400	14	ND<0.5	2.2	0.92	4.2	ND<0.5	ND<0.5	ND<0.5	9.5
MW-6	03/30/92	73	2.1	1.1	ND	0.60	--	--	--	--	--
	07/01/92	ND	ND	ND	ND	ND	--	--	--	--	--
	09/30/92	ND	0.73	ND	ND	0.58	--	--	--	--	--
	11/19/92	96	1.5	ND<0.5	ND<0.5	0.9	--	--	--	--	--
	02/03/93	73	0.6	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	05/25/93	NS <sup>(d)</sup>	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/11/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	03/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	06/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
09/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	

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**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-6 (cont.)	12/19/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	03/07/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	06/08/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	09/22/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/27/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	03/26/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	06/13/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	09/10/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	12/05/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/10/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/19/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	12/13/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/12/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	05/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/15/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/07/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	09/07/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
12/13/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
03/08/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
06/12/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-6 (cont.)	02/27/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	05/22/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/05/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	11/07/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	02/11/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	06/03/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	08/06/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/28/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/04/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/08/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/05/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
01/13/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
05/12/06	ND<50	ND<0.5	ND<0.5	0.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
08/13/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
10/20/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-6 (cont.)	02/12/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/25/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/23/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/07	76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	01/27/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-7	03/30/92	ND	ND	ND	ND	ND	--	--	--	--	--
	07/01/92	ND	ND	ND	ND	ND	--	--	--	--	--
	09/30/92	ND	ND	ND	ND	ND	--	--	--	--	--
	11/19/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	02/03/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	05/25/93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/22/93	ND<50	0.51	0.82	ND<0.5	0.81	--	--	--	--	--
	12/21/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	03/18/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	06/15/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	09/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/19/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	03/07/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	06/08/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	09/22/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/27/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
03/26/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	
06/13/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-7 (cont.)	09/10/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	12/05/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/07/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/19/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	12/13/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/12/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	05/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/15/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/07/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	09/07/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	12/13/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/08/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	02/27/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	05/22/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	09/05/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
11/07/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	
02/11/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/03/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.95	--	--	--	--
08/06/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--



TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-7 (cont.)	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.69	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/28/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/04/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/08/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.78	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.61	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/05/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	ND<0.5	ND<0.5	ND<0.5	ND<5
	01/13/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.61	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/06	ND<50	ND<0.5	0.59	ND<0.5	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/13/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.54	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/12/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/25/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/23/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
10/24/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
01/27/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
05/12/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-8	03/30/92	3,000	1,700	880	970	1,900	--	--	--	--	--
	07/01/92	72,000	1,800	550	520	2,200	--	--	--	--	--
	09/30/92	12,000	680	140	140	560	--	--	--	--	--
	11/19/92	9,600	530	310	130	560	--	--	--	--	--
	02/03/93	44,000	1,500	1,300	490	2,300	--	--	--	--	--
	05/25/93	7,400	580	160	170	480	--	--	--	--	--
	09/22/93	2,400	490	45	37	140	--	--	--	--	--
	12/21/93	1,400	240	7.5	ND<2.5	82	--	--	--	--	--
	03/18/94	8,600	1,600	680	470	1,900	--	--	--	--	--
	06/15/94	4,800	980	380	260	1,200	--	--	--	--	--
	09/14/94	6,600	1,200	280	330	1,100	--	--	--	--	--
	12/19/94	8,400	1,800	390	500	2,000	--	--	--	--	--
	03/07/95	7,400	1,400	370	440	2,000	--	--	--	--	--
	06/08/95	6,000	790	220	290	1,400	--	--	--	--	--
	09/22/95	4,100	750	93	230	860	--	--	--	--	--
	12/27/95	5,400	860	140	350	1,400	--	--	--	--	--
	03/26/96	1,700	180	27	100	370	--	--	--	--	--
	06/13/96	2,400	500	67	220	850	42	--	--	--	--
	09/10/96	7,000	1,300	100	410	1,600	ND<50	--	--	--	--
	12/05/96	6,300	1,100	78	410	1,600	ND<50	--	--	--	--
03/07/97	6,500	840	67	330	1,500	ND<130	--	--	--	--	
06/12/97	7,500	1,000	79	390	1,400	ND<50	--	--	--	--	
08/19/97	1,100	170	14	38	220	ND<20	--	--	--	--	
12/13/97	4,100	300	29	190	860	24	--	--	--	--	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-8 (cont.)	03/12/98	72	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	05/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	08/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/19/98	14,000	510	24	1,200	2,800	ND<5	--	--	--	--
	03/15/99	14,000	160	16	910	2,100	ND<50	--	--	--	--
	06/07/99	7,800	330	14	470	880	ND<50	--	--	--	--
	09/07/99	3,200	150	2.6	260	370	ND<5	--	--	--	--
	12/13/99	6,700	35	ND<5	280	730	ND<50	--	--	--	--
	03/08/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/00	140	4.0	ND<0.5	4.9	2.1	ND<5	--	--	--	--
	11/15/00	100	2.0	ND<0.5	3.1	2.6	110	--	--	--	--
	02/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/22/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/05/01	4,800	160	ND<2	200	330	850	--	--	--	--
	11/07/01	ND<100	1.1	ND<1	2.0	6.1	590	--	--	--	--
	02/11/02	ND<500	7.9	ND<5	16	22	1,700	--	--	--	--
	06/03/02	550	20	ND<2	19	35	650	--	--	--	--
	08/06/02	4,800	220	ND<2	170	280	1,000	--	--	--	--
	11/14/02	4,800	250	ND<2.5	160	220	1,200	ND<2.5	ND<2.5	ND<2.5	47
	02/20/03	760	17	ND<1	19	42	520	ND<1	ND<1	ND<1	16
05/15/03	690	14	ND<0.5	16	23	370	ND<0.5	ND<0.5	0.79	10	
07/31/03	700	29	ND<1	15	18	380	ND<1	ND<1	ND<1	36	
10/28/03	2,000	87	ND<1	34	40	490	ND<1	ND<1	ND<1	130	
02/28/04	1,100	21	ND<0.5	15	49	200	ND<0.5	ND<0.5	ND<0.5	110	

TABLE D-1

**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106**

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-8 (cont.)	04/16/04	2,900	57	ND<0.5	52	75	300	ND<0.5	ND<0.5	ND<0.5	140
	07/16/04	2,000	32	ND<0.5	34	51	92	ND<0.5	ND<0.5	ND<0.5	67
	11/13/04	4,100	30	0.64	84	92	61	ND<0.5	ND<0.5	ND<0.5	76
	02/04/05	2,700	27	ND<0.5	65	92	56	ND<0.5	ND<0.5	ND<0.5	38
	04/08/05	81	1.1	ND<0.5	ND<0.5	ND<0.5	6.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	2,000	14	ND<0.5	26	22	27	ND<0.5	ND<0.5	ND<0.5	22
	11/05/05	2,300	9.7	ND<0.5	54	67	15	ND<0.5	ND<0.5	ND<0.5	21
	01/13/06	52	ND<0.5	ND<0.5	ND<0.5	0.51	0.58	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/13/06	77	0.51	ND<0.5	0.84	0.51	6.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	100	1.1	ND<0.5	1.8	0.94	5.8	ND<0.5	ND<0.5	ND<0.5	6.5
	02/12/07	69	ND<0.5	ND<0.5	ND<0.5	4.5	4.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/25/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	07/23/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/24/07	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	7.6
01/27/08	51	ND<0.5	ND<0.5	ND<0.5	0.68	2.4	ND<0.5	ND<0.5	ND<0.5	ND<5	
05/12/08	270	0.53	ND<0.5	ND<0.5	8.7	2.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-9	12/20/94	16,000	2,500	1,400	690	2,800	--	--	--	--	--
	03/07/95	5,200	1,600	250	320	520	--	--	--	--	--
	06/08/95	4,900	1,000	98	300	200	--	--	--	--	--
	09/22/95	4,000	1,100	82	190	200	--	--	--	--	--
	12/27/95	2,800	960	100	200	250	--	--	--	--	--
	03/26/96	1,600	380	44	96	110	--	--	--	--	--
	06/13/96	1,800	540	71	140	180	750	--	--	--	--

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-9 (cont.)	09/10/96	2,400	860	70	190	210	810	--	--	--	--
	12/05/96	5,500	2,100	420	380	720	960	--	--	--	--
	03/07/97	4,200	1,300	170	260	440	720	--	--	--	--
	06/12/97	11,000	2,500	490	560	1,300	1,000	--	--	--	--
	08/19/97	42,000	7,700	3,500	2,000	8,300	ND<1,000	--	--	--	--
	12/13/97	13,000	1,300	280	960	3,100	710	--	--	--	--
	03/12/98	3,700	320	23	180	720	190	--	--	--	--
	05/28/98	2,200	110	6.4	87	300	220	--	--	--	--
	08/31/98	11,000	240	23	690	1,900	ND<50	--	--	--	--
	11/19/98	280	7.7	ND<0.5	10	22	67	--	--	--	--
	03/15/99	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	ND<5	--	--	--	--
	06/07/99	340	9.3	0.86	9.7	12	ND<5	--	--	--	--
	09/07/99	72	0.76	ND<0.5	1.9	0.80	9.9	--	--	--	--
	12/13/99	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	03/08/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	06/12/00	640	0.90	ND<0.5	2.7	1.3	10	--	--	--	--
	11/15/00	200	ND<0.5	ND<0.5	0.69	ND<0.5	12	--	--	--	--
	02/27/01	360	0.61	ND<0.5	2.2	1.2	42	--	--	--	--
	05/22/01	330	0.57	ND<0.5	2.1	0.61	290	--	--	--	--
	09/05/01	ND<200	ND<2	ND<2	ND<2	ND<2	1,100	--	--	--	--
11/07/01	230	1.0	ND<1	ND<1	ND<1	510	--	--	--	--	
02/11/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	41	--	--	--	--	
06/03/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	55	--	--	--	--	
08/06/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	65	--	--	--	--	

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-9 (cont.)	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	--	--	--	--
	02/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	--	--	--	--
	05/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.9	--	--	--	--
	07/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	--	--	--	--
	10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	--	--	--	--
	02/28/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	04/16/04	53	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	07/16/04	56	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/04/05	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	04/08/05	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	08/10/05	260	ND<0.5	ND<0.5	0.76	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/05/05	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	01/13/06	280	ND<0.5	ND<0.5	0.78	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	05/12/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/13/06	1,000	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/20/06	490	ND<0.5	ND<0.5	0.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	02/12/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
04/25/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5	
07/23/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/24/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LEANDRO, 67106

Monitoring Well	Sample Date	TPHg <sup>(a)</sup> (ug/l)	Benzene <sup>(a)</sup> (ug/l)	Toluene <sup>(a)</sup> (ug/l)	Ethylbenzene <sup>(a)</sup> (ug/l)	Total Xylenes <sup>(a)</sup> (ug/l)	MTBE <sup>(a)</sup> (ug/l)	DIPE <sup>(a)</sup> (ug/l)	ETBE <sup>(a)</sup> (ug/l)	TAME <sup>(a)</sup> (ug/l)	TBA <sup>(a)</sup> (ug/l)
MW-9	01/27/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
(cont.)	05/12/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5

- (a) Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), methanol, and ethanol analyzed by EPA Method 8260; reported in micrograms per liter (ug/l).
- (b) "--" - Not analyzed.
- (c) ND - Not detected at the reporting limit listed.
- (d) NS - Not sampled.

**ATTACHMENT E**

**LABORATORY ANALYTICAL REPORT AND  
CHAIN-OF-CUSTODY FORM**





Report Number : 62647

Date : 05/17/2008

Mike Purchase  
Arctos Environmental  
1332 Peralta Avenue  
Berkeley, CA 94702

Subject : 9 Water Samples  
Project Name : Tesoro - San Leandro #67106  
Project Number : B1-080512

Dear Mr. Purchase,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff

Subject : 9 Water Samples  
Project Name : Tesoro - San Leandro #67106  
Project Number : B1-080512

## Case Narrative

The Method Reporting Limit for Methanol has been increased due to the presence of an interfering compound for sample MW-5.

Approved By: \_\_\_\_\_



Joel Kiff

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**

Sample : **MW-9**

Matrix : Water

Lab Number : 62647-01

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>1.9</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.59</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	05/14/2008

Approved By:

Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : Tesoro - San Leandro #67106

Project Number : B1-080512

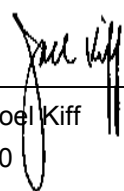
Sample : MW-7

Matrix : Water

Lab Number : 62647-02

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>0.16</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	< <b>50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	< <b>50</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**


Sample : **MW-8**

Matrix : Water

Lab Number : 62647-03

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>0.91</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>0.53</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>8.7</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>2.2</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>270</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**

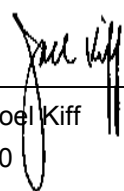
Sample : **MW-6**

Matrix : Water

Lab Number : 62647-04

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>&lt; 0.10</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**


Sample : **MW-4**

Matrix : Water

Lab Number : 62647-05

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>7.9</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>0.69</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>1.4</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>4.2</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.98</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>300</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**


Sample : **MW-5**

Matrix : Water

Lab Number : 62647-06

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>1.6</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>14</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>2.2</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>0.92</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>4.2</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>9.5</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 80</b>	80	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>1400</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	94.2		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	93.9		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff





Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**


Sample : **MW-3**

Matrix : Water

Lab Number : 62647-07

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>0.99</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>0.59</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.76</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	< <b>50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>840</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**


Sample : **MW-1**

Matrix : Water

Lab Number : 62647-08

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>3.4</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	< <b>0.50</b>	0.50	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	< <b>50</b>	50	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	< <b>5.0</b>	5.0	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>600</b>	50	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff



Report Number : 62647

Date : 05/17/2008

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**

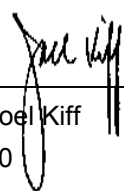
Sample : **MW-2**

Matrix : Water

Lab Number : 62647-09

Sample Date :05/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Iron</b>	<b>1.7</b>	0.10	mg/L	EPA 6010B	05/16/2008
<b>Benzene</b>	<b>7.0</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Toluene</b>	<b>3.4</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Ethylbenzene</b>	<b>310</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Total Xylenes</b>	<b>21</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 1.5</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 1.5</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 1.5</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 1.5</b>	1.5	ug/L	EPA 8260B	05/14/2008
<b>Tert-Butanol</b>	<b>&lt; 7.0</b>	7.0	ug/L	EPA 8260B	05/14/2008
<b>Methanol</b>	<b>&lt; 150</b>	150	ug/L	EPA 8260B	05/14/2008
<b>Ethanol</b>	<b>&lt; 15</b>	15	ug/L	EPA 8260B	05/14/2008
<b>TPH as Gasoline</b>	<b>7300</b>	150	ug/L	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	93.4		% Recovery	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	92.2		% Recovery	EPA 8260B	05/14/2008

Approved By:  Joel Kiff

**QC Report : Method Blank Data**

Project Name : **Tesoro - San Leandro #67106**

Project Number : **B1-080512**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Iron	< 0.10	0.10	mg/L	EPA 6010B	05/16/2008	Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/13/2008	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/13/2008	Methanol	< 50	50	ug/L	EPA 8260B	05/14/2008
Methanol	< 50	50	ug/L	EPA 8260B	05/13/2008	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/13/2008	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/14/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/13/2008	1,2-Dichloroethane-d4 (Surr)	99.9		%	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	05/13/2008	Toluene - d8 (Surr)	101		%	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	98.1		%	EPA 8260B	05/13/2008	Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/14/2008	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008	Methanol	< 50	50	ug/L	EPA 8260B	05/14/2008
Methanol	< 50	50	ug/L	EPA 8260B	05/14/2008	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/14/2008	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/14/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/14/2008	1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	05/14/2008
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	05/14/2008	Toluene - d8 (Surr)	102		%	EPA 8260B	05/14/2008
Toluene - d8 (Surr)	99.9		%	EPA 8260B	05/14/2008						

Approved By:  Joel Kiff

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Leandro #67106**Project Number : **B1-080512**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	62616-09	<0.50	40.2	39.9	41.5	41.6	ug/L	EPA 8260B	5/13/08	103	104	0.926	70-130	25
Methyl-t-butyl ether	62616-09	31	40.1	39.8	72.5	71.0	ug/L	EPA 8260B	5/13/08	104	101	3.16	70-130	25
Tert-Butanol	62616-09	380	200	199	565	588	ug/L	EPA 8260B	5/13/08	91.7	104	12.6	70-130	25
Toluene	62616-09	<0.50	40.0	39.8	42.1	42.3	ug/L	EPA 8260B	5/13/08	105	106	1.13	70-130	25
Benzene	62651-04	<0.50	40.6	40.6	40.4	39.5	ug/L	EPA 8260B	5/14/08	99.6	97.4	2.26	70-130	25
Methyl-t-butyl ether	62651-04	<0.50	40.1	40.1	33.0	32.1	ug/L	EPA 8260B	5/14/08	82.4	80.2	2.73	70-130	25
Tert-Butanol	62651-04	<5.0	200	200	206	208	ug/L	EPA 8260B	5/14/08	103	104	1.08	70-130	25
Toluene	62651-04	<0.50	39.6	39.6	39.7	39.0	ug/L	EPA 8260B	5/14/08	100	98.4	1.88	70-130	25
Benzene	62651-02	<0.50	40.6	40.6	42.0	41.1	ug/L	EPA 8260B	5/14/08	104	101	2.33	70-130	25
Methyl-t-butyl ether	62651-02	<0.50	40.1	40.1	45.1	41.8	ug/L	EPA 8260B	5/14/08	112	104	7.63	70-130	25
Tert-Butanol	62651-02	82	200	200	282	289	ug/L	EPA 8260B	5/14/08	100	104	3.69	70-130	25
Toluene	62651-02	<0.50	39.6	39.6	42.1	40.4	ug/L	EPA 8260B	5/14/08	106	102	4.21	70-130	25
Benzene	62627-04	<0.50	40.6	40.6	43.1	38.5	ug/L	EPA 8260B	5/14/08	106	95.0	11.1	70-130	25
Methyl-t-butyl ether	62627-04	<0.50	40.1	40.1	49.7	41.7	ug/L	EPA 8260B	5/14/08	124	104	17.5	70-130	25
Tert-Butanol	62627-04	<5.0	200	200	198	194	ug/L	EPA 8260B	5/14/08	98.9	97.0	2.02	70-130	25
Toluene	62627-04	<0.50	39.6	39.6	42.8	38.3	ug/L	EPA 8260B	5/14/08	108	96.6	11.1	70-130	25
Iron	62647-01	1.9	0.400	0.400	2.27	2.28	mg/L	EPA 6010B	5/16/08	92.5	95.5	0.527	75-120	20

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

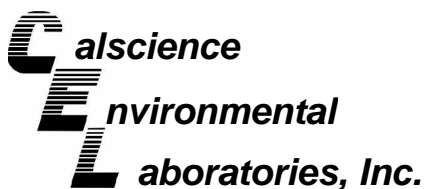
**QC Report : Laboratory Control Sample (LCS)**Project Name : **Tesoro - San Leandro #67106**Project Number : **B1-080512**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.2	ug/L	EPA 8260B	5/13/08	102	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	5/13/08	109	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/13/08	104	70-130
Toluene	40.0	ug/L	EPA 8260B	5/13/08	105	70-130
Benzene	40.2	ug/L	EPA 8260B	5/14/08	96.0	70-130
Methyl-t-butyl ether	40.3	ug/L	EPA 8260B	5/14/08	86.0	70-130
Tert-Butanol	201	ug/L	EPA 8260B	5/14/08	98.2	70-130
Toluene	40.2	ug/L	EPA 8260B	5/14/08	96.3	70-130
Benzene	40.7	ug/L	EPA 8260B	5/14/08	104	70-130
Methyl-t-butyl ether	40.3	ug/L	EPA 8260B	5/14/08	101	70-130
Tert-Butanol	201	ug/L	EPA 8260B	5/14/08	99.6	70-130
Toluene	39.8	ug/L	EPA 8260B	5/14/08	105	70-130
Benzene	40.7	ug/L	EPA 8260B	5/14/08	98.0	70-130
Methyl-t-butyl ether	40.3	ug/L	EPA 8260B	5/14/08	110	70-130
Tert-Butanol	201	ug/L	EPA 8260B	5/14/08	95.8	70-130
Toluene	39.8	ug/L	EPA 8260B	5/14/08	99.7	70-130
Iron	0.400	mg/L	EPA 6010B	5/16/08	104	75-120

KIFF ANALYTICAL, LLC

Approved By:


  
 Joel Kiff



May 19, 2008

Joel Kiff  
Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 08-05-1262**  
**Client Reference: Tesoro - San Leandro #67106**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/14/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Amanda Porter".

Calscience Environmental  
Laboratories, Inc.  
Amanda Porter  
Project Manager

## Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 05/14/08  
Work Order No: 08-05-1262  
Preparation: N/A  
Method: RSK-175M

Project: Tesoro - San Leandro #67106

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	08-05-1262-1-A	05/12/08 10:40	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	60.0	1.00	1		ug/L

MW-7	08-05-1262-2-A	05/12/08 11:25	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	ND	1.00	1		ug/L

MW-8	08-05-1262-3-A	05/12/08 11:50	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	38.5	1.00	1		ug/L

MW-6	08-05-1262-4-A	05/12/08 12:45	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	ND	1.00	1		ug/L

MW-4	08-05-1262-5-B	05/12/08 13:30	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	141	4.00	4		ug/L

MW-5	08-05-1262-6-A	05/12/08 14:10	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	3430	40.0	40		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 05/14/08  
Work Order No: 08-05-1262  
Preparation: N/A  
Method: RSK-175M

Project: Tesoro - San Leandro #67106

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-05-1262-7-A	05/12/08 14:40	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	622	4.00	4		ug/L

MW-1	08-05-1262-8-A	05/12/08 15:10	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	62.5	1.00	1		ug/L

MW-2	08-05-1262-9-A	05/12/08 15:40	Aqueous	GC 33	N/A	05/17/08 00:00	080517L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	823	40.0	40		ug/L

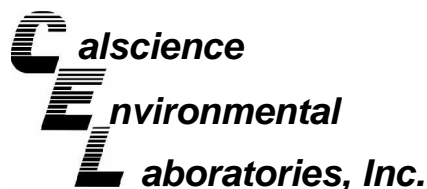
Method Blank	099-12-663-146	N/A	Aqueous	GC 33	N/A	05/16/08 00:00	080516L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	ND	1.00	1		ug/L

Method Blank	099-12-663-147	N/A	Aqueous	GC 33	N/A	05/17/08 00:00	080517L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Methane	ND	1.00	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 05/14/08  
Work Order No: 08-05-1262

Project: Tesoro - San Leandro #67106

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-9	08-05-1262-1	05/12/08	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.9	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-7	08-05-1262-2	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	1.8	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-8	08-05-1262-3	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.2	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-6	08-05-1262-4	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.0	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-4	08-05-1262-5	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.6	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

## Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: 05/14/08  
Work Order No: 08-05-1262

Project: Tesoro - San Leandro #67106

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-5	08-05-1262-6	05/12/08	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.5	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-3	08-05-1262-7	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	1.7	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

MW-1	08-05-1262-8	05/12/08	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	1.3	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

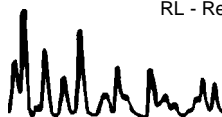
MW-2	08-05-1262-9	05/12/08	Aqueous
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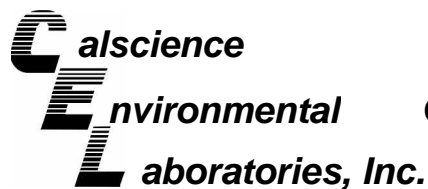
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.7	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

Method Blank				N/A	Aqueous
--------------	--	--	--	-----	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	05/16/08	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





## Quality Control - Spike/Spike Duplicate



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

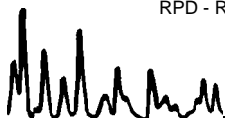
Date Received: N/A  
Work Order No: 08-05-1262

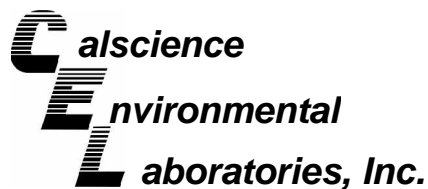
Project: Tesoro - San Leandro #67106

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	MW-9	05/16/08	N/A	95	98	70-130	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

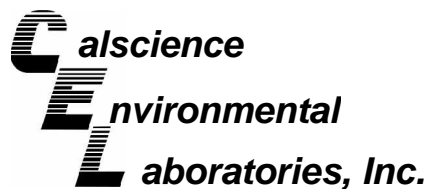
Date Received: N/A  
Work Order No: 08-05-1262  
Preparation: N/A  
Method: RSK-175M

Project: Tesoro - San Leandro #67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-663-146	Aqueous	GC 33	N/A	05/16/08	080516L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Methane	97	96	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95616-6593

Date Received: N/A  
Work Order No: 08-05-1262  
Preparation: N/A  
Method: RSK-175M

Project: Tesoro - San Leandro #67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-663-147	Aqueous	GC 33	N/A	05/17/08	080517L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Methane	98	94	79-109	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95616-6593

Date Received: N/A  
 Work Order No: 08-05-1262

Project: Tesoro - San Leandro #67106

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-2,967	05/16/08	N/A	5.00	5.08	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 08-05-1262

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





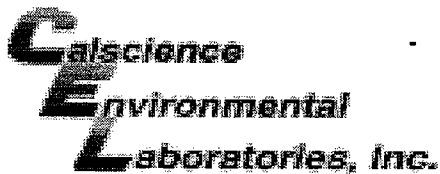


1262

## Test Detail for Kiff Work Order: 62647

**Hydrocarbons in Water by RSK 175 (1)**

Methane



WORK ORDER #: 08 - 05 - 1242

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIPP ANALYTICAL

DATE: 5-14-08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
C Temperature blank.

LABORATORY (Other than CalScience Courier):

- 2.9 C Temperature blank.
C IR thermometer.
Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): Cooler: / No (Not Intact): Not Present:

Initial: WB

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: WB

COMMENTS:

Multiple horizontal lines for writing comments.

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

May 19, 2008

CLS Work Order #: CRE0441  
COC #: 62647

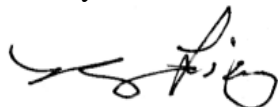
Angelique Showman  
KIFF Analytical  
2795 Second St. Suite 300  
Davis, CA 95616

**Project Name: Tesoro - San Leandro #67106**

Enclosed are the results of analyses for samples received by the laboratory on 05/13/08 10:38. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.  
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES

Page 1 of 9

05/19/08 14:08

KIFF Analytical  
2795 Second St. Suite 300  
Davis, CA 95616

Project: Tesoro - San Leandro #67106  
Project Number: B1-080512  
Project Manager: Angelique Showman

**CLS Work Order #: CRE0441**  
COC #: 62647

May 13 08 10:55a

Kiff Analytical

5302974802

p.1

## Test Detail for Kiff Work Order: 62647

**Alkalinity SM 2320 (1)**  
Alkalinity, Total (as CaCO<sub>3</sub>)

**Anions by EPA 300.0 (1)**  
Nitrate as N  
Sulfate

Page 1 of 1

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angeliqne Showman	CLS Work Order #: CRE0441 COC #: 62647
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CRE0441 Revised

		2795 Second Street, Suite 300 Davis, CA 95618 Lab: 530.297.4800 Fax: 530.297.4808	3249 Fitzgerald Road Rancho Cordova, CA 95742 916-638-7301	REVISÉD 051308 @ 1700 COC No. <b>62647</b> Page 1 of 1						
Project Contact (Hardcopy or PDF to): Angelique Showman		EDF Report? YES	<b>Chain-of-Custody Record and Analysis Request</b>							
Company/Address: Kiff Analytical		Recommended but not mandatory to complete this section:			Date due:  May 19, 2008  For Lab Use Only					
Phone No.: 530-297-4800 FAX No.: 530-297-4808		Sampling Company Log Code: CESC								
Project Number: B1-080512 P.O. No.: 62647		Global ID: T0600101409								
Project Name: Tesoro - San Leandro #67106		Deliverables to (Email Address): inbox@kiffanalytical.com								
Project Address:		Container / Preservative Matrix								
<b>Sample Designation</b>	<b>Sampling</b>	25Cml Poly Nona	WATER	SOIL	Air	Alkalinity SM 2320 (1)	Anions by EPA 300.0 (1)	Carbon Dioxide (SM 4500 CO2D)	Iron, Ferrous	Total Phosphorus
	Date Time									
MW-9	05/12/08 10:40	4	X			X	X	X	X	X
MW-7	05/12/08 11:25	4	X			X	X	X	X	X
MW-8	05/12/08 11:50	4	X			X	X	X	X	X
MW-6	05/12/08 12:45	4	X			X	X	X	X	X
MW-4	05/12/08 13:30	4	X			X	X	X	X	X
MW-5	05/12/08 14:10	4	X			X	X	X	X	X
MW-3	05/12/08 14:40	4	X			X	X	X	X	X
MW-1	05/12/08 15:10	4	X			X	X	X	X	X
MW-2	05/12/08 15:40	4	X			X	X	X	X	X
Relinquished by:		Date	Time	Received by:		Remarks: Please refer to attached Test Detail.				
Relinquished by:		Date	Time	Received by:						
Relinquished by:		Date	Time	Received by Laboratory:						

# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angelique Showman	CLS Work Order #: CRE0441 COC #: 62647
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## Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-9 (CRE0441-01) Water    Sampled: 05/12/08 10:40    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>220</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>220</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>42</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
Ferrous Iron	ND	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	HT-B2
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.75</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>4.8</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-7 (CRE0441-02) Water    Sampled: 05/12/08 11:25    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>210</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>210</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>63</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
Ferrous Iron	ND	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
<b>Nitrate as N</b>	<b>3.2</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.092</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>35</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-8 (CRE0441-03) Water    Sampled: 05/12/08 11:50    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>270</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>270</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>78</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
<b>Ferrous Iron</b>	<b>0.22</b>	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.19</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>7.3</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	

# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angelique Showman	CLS Work Order #: CRE0441 COC #: 62647
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## Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (CRE0441-04) Water    Sampled: 05/12/08 12:45    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>470</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>470</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>95</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
Ferrous Iron	ND	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.10</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>43</b>	2.5	"	5	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-4 (CRE0441-05) Water    Sampled: 05/12/08 13:30    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>260</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>260</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>38</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
Ferrous Iron	ND	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>1.7</b>	0.25	"	5	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>2.9</b>	0.50	"	1	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-5 (CRE0441-06) Water    Sampled: 05/12/08 14:10    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>630</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>630</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>130</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
<b>Ferrous Iron</b>	<b>0.66</b>	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.27</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>1.4</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	



# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angelique Showman	CLS Work Order #: CRE0441 COC #: 62647
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## Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (CRE0441-07) Water    Sampled: 05/12/08 14:40    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>120</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>120</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>20</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
<b>Ferrous Iron</b>	<b>0.27</b>	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.88</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>1.4</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-1 (CRE0441-08) Water    Sampled: 05/12/08 15:10    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>100</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>100</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>22</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
<b>Ferrous Iron</b>	<b>0.35</b>	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.79</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>1.3</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>MW-2 (CRE0441-09) Water    Sampled: 05/12/08 15:40    Received: 05/13/08 10:38</b>									
<b>Total Alkalinity</b>	<b>74</b>	5.0	mg/L	1	CR03903	05/15/08	05/15/08	SM2310B	
<b>Bicarbonate as CaCO3</b>	<b>74</b>	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
<b>Carbon Dioxide as CO2</b>	<b>15</b>	5.0	"	"	CR03953	05/16/08	05/16/08	SM 4500C	
<b>Ferrous Iron</b>	<b>0.49</b>	0.10	"	"	CR03810	05/13/08	05/13/08	SM3500-Fe D	
Nitrate as N	ND	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	
<b>Total Phosphorus as P</b>	<b>0.84</b>	0.050	"	"	CR03946	05/16/08	05/16/08	SM4500-P E	
<b>Sulfate as SO4</b>	<b>ND</b>	0.50	"	"	CR03804	05/13/08	05/13/08	EPA 300.0	

# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angelique Showman	CLS Work Order #: CRE0441 COC #: 62647
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## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch CR03804 - General Prep

**Blank (CR03804-BLK1)** Prepared & Analyzed: 05/13/08

Sulfate as SO4	ND	0.50	mg/L							
Nitrate as N	ND	0.50	"							

**LCS (CR03804-BS1)** Prepared & Analyzed: 05/13/08

Sulfate as SO4	5.02	0.50	mg/L	5.00		100	80-120			
Nitrate as N	0.466	0.50	"	0.451		103	80-120			

**LCS Dup (CR03804-BSD1)** Prepared & Analyzed: 05/13/08

Sulfate as SO4	4.99	0.50	mg/L	5.00		99.8	80-120	0.560	20	
Nitrate as N	0.451	0.50	"	0.451		100	80-120	3.25	20	

**Matrix Spike (CR03804-MS1)** Source: CRE0439-01 Prepared & Analyzed: 05/13/08

Sulfate as SO4	6.23	0.50	mg/L	5.00	1.11	102	75-125			
Nitrate as N	0.726	0.50	"	0.451	0.312	91.9	80-120			

**Matrix Spike Dup (CR03804-MSD1)** Source: CRE0439-01 Prepared & Analyzed: 05/13/08

Sulfate as SO4	6.23	0.50	mg/L	5.00	1.11	102	75-125	0.0802	25	
Nitrate as N	0.726	0.50	"	0.451	0.312	91.7	80-120	0.0933	20	

### Batch CR03810 - General Preparation

**Blank (CR03810-BLK1)** Prepared & Analyzed: 05/13/08

Ferrous Iron	ND	0.10	mg/L							
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**LCS (CR03810-BS1)** Prepared & Analyzed: 05/13/08

Ferrous Iron	0.220	0.10	mg/L	0.250		88.0	80-120			
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# CALIFORNIA LABORATORY SERVICES

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KIFF Analytical  
2795 Second St. Suite 300  
Davis, CA 95616

Project: Tesoro - San Leandro #67106  
Project Number: B1-080512  
Project Manager: Angelique Showman

CLS Work Order #: CRE0441  
COC #: 62647

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch CR03810 - General Preparation

#### LCS Dup (CR03810-BSD1)

Prepared & Analyzed: 05/13/08

Ferrous Iron	0.216	0.10	mg/L	0.250		86.4	80-120	1.83	25	
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#### Matrix Spike (CR03810-MS1)

Source: CRE0441-01

Prepared & Analyzed: 05/13/08

Ferrous Iron	0.238	0.10	mg/L	0.250	0.00470	93.3	75-125			
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#### Matrix Spike Dup (CR03810-MSD1)

Source: CRE0441-01

Prepared & Analyzed: 05/13/08

Ferrous Iron	0.242	0.10	mg/L	0.250	0.00470	94.9	75-125	1.67	30	
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### Batch CR03903 - General Preparation

#### Blank (CR03903-BLK1)

Prepared & Analyzed: 05/15/08

Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO3	ND	5.0	"							
Carbonate as CaCO3	ND	5.0	"							
Hydroxide as CaCO3	ND	5.0	"							

#### Duplicate (CR03903-DUP1)

Source: CRE0442-01

Prepared & Analyzed: 05/15/08

Total Alkalinity	182	5.0	mg/L		183			0.548	20	
Bicarbonate as CaCO3	182	5.0	"		183			0.548	20	
Carbonate as CaCO3	ND	5.0	"		ND				20	
Hydroxide as CaCO3	ND	5.0	"		ND				20	

### Batch CR03946 - General Preparation

#### Blank (CR03946-BLK1)

Prepared & Analyzed: 05/16/08

Total Phosphorus as P	ND	0.050	mg/L							
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# CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Leandro #67106 Project Number: B1-080512 Project Manager: Angelique Showman	CLS Work Order #: CRE0441 COC #: 62647
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## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch CR03946 - General Preparation

<b>LCS (CR03946-BS1)</b>				Prepared & Analyzed: 05/16/08						
Total Phosphorus as P	0.321	0.050	mg/L	0.300		107	80-120			

<b>LCS Dup (CR03946-BSD1)</b>				Prepared & Analyzed: 05/16/08						
Total Phosphorus as P	0.320	0.050	mg/L	0.300		107	80-120	0.499	25	

<b>Matrix Spike (CR03946-MS1)</b>				Source: CRE0442-01		Prepared & Analyzed: 05/16/08				
Total Phosphorus as P	0.421	0.050	mg/L	0.300	0.107	105	75-125			

<b>Matrix Spike Dup (CR03946-MSD1)</b>				Source: CRE0442-01		Prepared & Analyzed: 05/16/08				
Total Phosphorus as P	0.422	0.050	mg/L	0.300	0.107	105	75-125	0.213	30	

### Batch CR03953 - General Preparation

<b>Blank (CR03953-BLK1)</b>				Prepared & Analyzed: 05/16/08						
Carbon Dioxide as CO2	ND	5.0	mg/L							

# CALIFORNIA LABORATORY SERVICES

KIFF Analytical  
2795 Second St. Suite 300  
Davis, CA 95616

Project: Tesoro - San Leandro #67106  
Project Number: B1-080512  
Project Manager: Angelique Showman

**CLS Work Order #: CRE0441**  
COC #: 62647

## Notes and Definitions

- HT-B2 The remaining holding time was less than an hour when the sample was received at the laboratory. Therefore, it was analyzed outside the holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

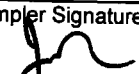
Project Contact (Hardcopy or PDF To):  
Mike Purchase  
California EDF Report?  Yes  No

Company / Address: Arctos Environmental  
1332 Peralta Avenue, Berkley, CA. 90806  
Sampling Company Log Code: **CESC**

Phone Number: (510) 525-2180  
Global ID: **T0600101409**

Fax Number: (510) 525-2392  
EDF Deliverable To (Email Address): **Mike Purchase**

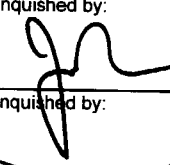

Project #: **B1-080512** P.O. #:  
Bill to: **Orion**


Project Name: Tesoro - San Leandro #67 106  
Sampler Signature: 


Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container				Preservative				Matrix			MTBE @ 0.5 pbb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	circle method			Carbon Dioxide (SM 4500-CO2D)	Phosphorus, Nitrate and Sulfate (EPA 300.0/365.3)	Ferrous Iron (SM 3500-Fe D)	Methane (RSK 175M)	Total Alkalinity (SM2320 B)	TAT	
	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	H <sub>2</sub> SO <sub>4</sub>	Water	Soil												Air	Total Iron (EPA 8010)	Total Organic Carbon (EPA 415.1)							Total Lead (EPA 200.7 / 6010)
MW-9	5/12	1040	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		01
MW-7		1125	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		02
MW-8		1150	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		03
MW-6		1245	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		04
MW-4		1330	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		05
MW-5		1410	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		06
MW-3		1440	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		07
MW-1		1570	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		08
MW-2		1540	3	✓	✓			5	1	✓	✓			X		X	X								X	X	X	X	X	X	X	X		09

Analysis Request	TAT
circle method	<input type="checkbox"/> 12 hr
	<input type="checkbox"/> 24 hr
	<input type="checkbox"/> 48 hr
	<input type="checkbox"/> 72hr
	<input checked="" type="checkbox"/> 1 wk

Relinquished by:  Date: 5/12/08 Time: 1550 Received by: 

Relinquished by:  Date: Date: Time: Time: Received by: Received by:

Relinquished by:  Date: 05/12/08 Time: 1601 Received by: Laboratory: **KIFF Analytical**

Remarks: Fax copy of COC to Jason Brown 916-473-8617

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
0.6	LJR	05/20/08	1857	ZR-1	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No