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6 April 2011

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

**Subject: First Quarter 2011 Status Report
44 Lewelling Boulevard, San Lorenzo, California
Tesoro No. 67107 (Former Beacon 3721); ACEH Case No. RO0498**

Dear Mr. Wickham:

Enclosed please find a copy of the quarterly status report for the subject site located at 44 Lewelling Boulevard in San Lorenzo, California. This report is submitted by Arctos Environmental on behalf of Tesoro Environmental Resources Company.

Based on my inquiry of the person or persons directly responsible for gathering the information contained in this report, I believe the information was prepared by qualified personnel who properly gathered and evaluated the information, and that the information submitted is, to the best of my knowledge and belief, true, correct, and complete. Please feel free to call me at 253/896-8700 or Michael Purchase of Arctos Environmental at 510/525-2180 with questions.

Sincerely,

Jeffrey M. Baker, P.E.
Supervisor, Environmental
Compliance & Remediation
Tesoro Companies, Inc.

Attachments

CC: Arctos – Michael Purchase



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6 April 2011
Project No. 01ZO

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

**Subject: First Quarter 2011 Status Report
44 Lewelling Boulevard, San Lorenzo, California
Tesoro No. 67107 (Former Beacon 3721); ACEH Case No. RO0498**

Dear Mr. Wickham:

Arctos Environmental (Arctos), on behalf of Tesoro Environmental Resources Company (Tesoro), has prepared this letter report summarizing project activities for the first quarter 2011 at the subject site (Figure 1).

Executive Summary

Arctos conducted first quarter groundwater monitoring on 25 January 2011. Total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tert-butyl ether (MTBE) concentrations continue to show decreasing concentrations for both onsite and offsite wells. Offsite benzene and MTBE concentrations have remained below the Environmental Screening Levels (ESLs) during the last 5 quarters of monitoring. A comparison of current first quarter and historical maximum hydrocarbon concentrations show a decrease of 95 to 100 percent on site and 86 to 100 percent off site.

Samples were also collected from injection wells OS-1 through OS-4 after the oxygen injection system was offline for approximately 41 days. Concentrations were generally consistent with historical data at the injection wells, indicating that oxygen injection may no longer be effective at treating the low concentrations on site.

Based on the monitoring results and significant concentration decreases, Arctos is recommending stopping oxygen injection. Arctos is proposing to implement a reduced groundwater monitoring frequency, as proposed in the fourth quarter 2010 report, to continue monitoring concentration trends at and downgradient of the site.

Site Background

A site background, which summarizes regional and site geology and hydrogeology and previous investigation and remediation, can be viewed at the project internet web site at https://portal.haleyaldrich.com/sites/ext/San_Lorenzo with a username and password provided by Tesoro.

Field Activities

Arctos's subcontractor, Confluence Environmental, Inc. (Confluence), of Sacramento, California, performed quarterly groundwater monitoring on 25 January 2011. Samples were collected from wells MW-1, MW-2, MW-3R, MW-4, MW-6, MW-9 through MW-12, RW-1, RW-2, and PT-1. Samples were also collected from injection wells OS-1 through OS-4 (Figure 2). Groundwater monitoring was performed in accordance with RWQCB guidelines and the quality assurance/quality control (QA/QC) procedures 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

Groundwater elevations were recorded at approximately 29.8 to 31.0 feet above mean sea level (13.8 to 17.9 feet below ground surface; Table 1). Water elevations increased between 1.0 and 1.6 feet since October 2010. Water level data indicated that the general direction of water flow was toward the southwest with an estimated gradient of 0.004 (1 foot/250 feet; Figure 2). First quarter 2011 groundwater elevations and gradient were generally consistent with historical data (Attachment C).

The highest TPHg concentration of 3,500 micrograms per liter ($\mu\text{g/l}$) was at offsite well MW-10. Well MW-3R had the highest onsite TPHg and MTBE concentrations of 1,100 and 10 $\mu\text{g/l}$, respectively. Only onsite well MW-3R had benzene and tert-butyl alcohol (TBA) concentrations (64 and 14 $\mu\text{g/l}$, respectively) above the ESLs of 1 and 12 $\mu\text{g/l}$, respectively. Benzene, MTBE, and TBA were below the ESLs for offsite wells during the first quarter monitoring event and have been since July 2009.

Samples were also collected from injection wells OS-1 through OS-4 after the oxygen injection system was offline for approximately 41 days. Concentrations were generally consistent with historical data at the injection wells after approximately 12 months of direct oxygen injection (Attachment D). The limited concentration response to oxygen

injection at these wells may indicate that biological treatment is no longer applicable due to the low concentrations at the site.

Groundwater analytical results are summarized in Table 2. Figures 3, 4, and 5 show isoconcentration contours for TPHg, benzene, and MTBE, respectively. Figures 6A through 6G illustrate the change in groundwater quality with time for TPHg, benzene, and MTBE at wells MW-1, MW-3R, RW-1, RW-2, PT-1, MW-10, and MW-11. Historical analytical results are in Attachment D and the laboratory reports and chain-of-custody forms are in Attachment E.

Trend Analysis

Trend analysis results show decreasing trends for TPHg, benzene, MTBE, and TBA for the seven wells with concentrations above the ESLs, except for MTBE at well PT-1. PT-1 shows a stable trend for MTBE over the past 11 monitoring events (since September 2008) with concentrations steadily decreasing since February 2010. Both offsite wells MW-10 and MW-11 show decreasing trends for TPHg, the only petroleum hydrocarbon above the ESL off site. Trend analysis procedures and results are summarized in Attachment F.

Oxygen Injection Status

An oxygen diffusion system was initiated on 5 March 2009 in the western portion of the site at injection wells OS-1 through OS-4. Dissolved oxygen (DO) concentrations were above 15 milligrams per liter (mg/l) in the injection wells and remained at baseline concentrations (at or less than 1 mg/l) at downgradient observation wells PT-1 and RW-2 through March 2010. On 3 March 2010, Arctos started injecting oxygen gas directly into the existing injection wells, as described in an 18 November 2009 work plan. Oxygen gas was injected for a 10-minute period every 120 minutes at approximate flow rates of 5 to 8 cubic feet per hour (cfh). The injection pressures were maintained at less than 5 pounds per square inch (psi) at each injection well. After 13 months of operation, DO concentrations remained above 1 mg/l at downgradient well PT-1. The system went offline on 15 December 2010 due to an issue with the power supply. The problem was repaired and the system restarted on 28 January 2011. The field readings are summarized in Attachment G.

Groundwater Monitoring Frequency Reduction

In the fourth quarter 2010 status report, Arctos proposed a reduction in groundwater monitoring frequency based on the California State Water Resources Control Board Resolution No. 2009-0042 and historical groundwater monitoring results. The proposed groundwater monitoring frequency is summarized in the following table:

Well Designation	Location	Sampling Frequency
MW-1	Upgradient	Quarterly during oxygen injection activities, semiannually thereafter
MW-3R, RW-1, RW-2, and PT-1	On site	
MW-10 and MW-11	Downgradient	
MW-6	Upgradient	Quarterly during oxygen injection activities, annual thereafter
MW-2 and MW-4	Upgradient and cross gradient	Annual (2nd quarter)
MW-7 and MW-12	Downgradient	
MW-5	Upgradient	None
MW-8 and MW-9	Downgradient	

Conclusions and Recommendations

Results of the groundwater sampling and oxygen injection activities indicate the following conclusions:

- Offsite benzene and MTBE concentrations have remained below ESLs since the third quarter 2006 and second quarter 2009 sampling events, respectively
- Petroleum hydrocarbon compounds show statistically decreasing or stable trends for wells above the ESLs with reductions from 95 to 100 percent on site and 86 to 100 percent off site
- Petroleum hydrocarbon concentrations remained stable in oxygen injection wells after 12 months of direct oxygen injection indicating limited effectiveness of the oxygen injection system.

Arctos recommends **stopping operation of the oxygen injection system** based on (1) significantly reduced concentrations at and downgradient of the site, (2) decreasing concentrations trends, and (3) limited effectiveness of oxygen injection. Arctos proposes to implement the reduced groundwater monitoring frequency to continue monitoring concentration trends at and downgradient of the site.

Jerry Wickham
Alameda County Environmental Health
6 April 2011
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ARCTOS

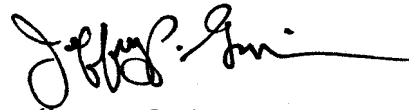
If you have questions or comments, please call Mike Purchase at 510/525-2180 or Jeff Gwinn at 562/988-2755.

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
Figure 5 – MTBE Concentration Contour in Groundwater
Figures 6A through 6G – TPHg, Benzene, and MTBE Concentrations with
Groundwater Elevations for Wells MW-1, MW-3R, RW-1, RW-2, PT-1,
MW-10, and MW-11
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
Attachment F – Trend Analysis
Attachment G – Oxygen Injection Performance Monitoring
Attachment H – Waste Manifests

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
MW-1	2/17/10	15.43	46.36	30.93
	4/13/10	14.68		31.68
	7/6/10	15.82		30.54
	10/27/10	17.03		29.33
	1/25/11	15.61		30.75
MW-2	2/17/10	14.50	45.61	31.11
	4/13/10	13.55		32.06
	7/6/10	14.96		30.65
	10/27/10	16.18		29.43
	1/25/11	14.73		30.88
MW-3R	2/17/10	14.30	45.16	30.86
	4/13/10	13.50		31.66
	7/6/10	14.70		30.46
	10/27/10	15.90		29.26
	1/25/11	14.50		30.66
MW-4	2/17/10	16.49	47.36	30.87
	4/13/10	15.80		31.56
	7/6/10	16.82		30.54
	10/27/10	18.02		29.34
	1/25/11	16.64		30.72
MW-5	2/17/10	15.40	46.50	31.10
	4/13/10	14.60		31.90
	7/6/10	15.83		30.67
	10/27/10	17.08		29.42
	1/25/11	15.56		30.94
MW-6	2/17/10	14.03	45.17	31.14
	4/13/10	9.57		35.60
	7/6/10	14.50		30.67
	10/27/10	15.78		29.39
	1/25/11	14.19		30.98
MW-7	2/17/10	13.60	44.24	30.64
	4/13/10	17.70		26.54

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
MW-7 (cont.)	7/6/10	14.00	44.24	30.24
	10/27/10	15.21		29.03
	1/25/11	13.81		30.43
MW-8	2/17/10	14.62	44.95	30.33
	4/13/10	13.87		31.08
	7/6/10	15.00		29.95
	10/27/10	16.20		28.75
	1/25/11	15.15		29.80
MW-9	2/17/10	16.89	47.65	30.76
	4/13/10	16.20		31.45
	7/6/10	17.20		30.45
	10/27/10	18.40		29.25
	1/25/11	17.00		30.65
MW-10	2/17/10	14.72	45.04	30.32
	4/13/10	14.08		30.96
	7/6/10	15.05		29.99
	10/27/10	16.20		28.84
	1/25/11	14.90		30.14
MW-11	2/17/10	17.74	47.69	29.95
	4/13/10	17.24		30.45
	7/6/10	18.05		29.64
	10/27/10	19.10		28.59
	1/25/11	17.92		29.77
MW-12	2/17/10	16.90	47.27	30.37
	4/13/10	16.28		30.99
	7/6/10	17.19		30.08
	10/27/10	18.30		28.97
	1/25/11	17.05		30.22
RW-1	2/17/10	15.08	45.86	30.78
	4/13/10	14.30		31.56
	7/6/10	15.48		30.38
	10/27/10	16.70		29.16
	1/25/11	15.25		30.61

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
RW-2	2/17/10	15.64	46.40	30.76
	4/13/10	14.90		31.50
	7/6/10	15.95		30.45
	10/27/10	17.17		29.23
	1/25/11	15.74		30.66
OS-1	2/17/10	16.37	47.19	30.82
	1/25/11	16.53		30.66
OS-2	2/17/10	16.00	46.79	30.79
	1/25/11	16.15		30.64
OS-3	2/17/10	14.80	45.68	30.88
	1/25/11	14.94		30.74
OS-4	2/17/10	15.16	46.02	30.86
	1/25/11	15.34		30.68
PT-1	2/17/10	15.66	46.48	30.82
	7/6/10	16.10		30.38
	10/27/10	17.27		29.21
	1/25/11	15.85		30.63

- (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 26 September 2008.
- (b) Difference between "PVC Casing Elevation" and "Depth to Water."

TABLE 2
GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

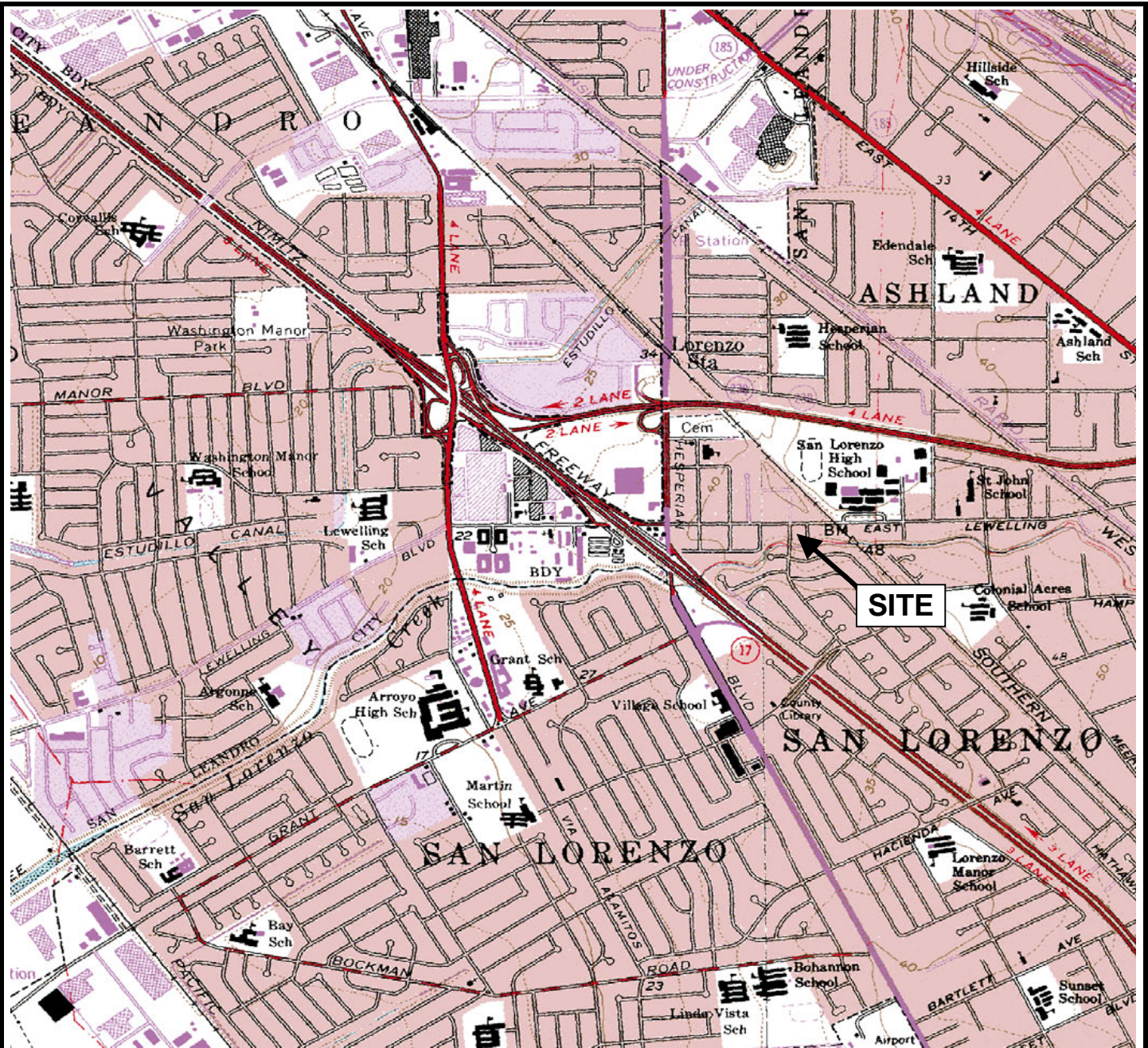
Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1	2/17/10	60	ND<0.5 ^(e)	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.8	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-2	2/17/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.58	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	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
	7/6/10	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
	10/27/10	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
	1/25/11	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-3R	2/18/10	400	38	0.76	25	6.5	10	ND<0.5	ND<0.5	ND<0.5	18
	4/14/10	840	81	1.4	62	22	16	ND<0.5	ND<0.5	ND<0.5	16
	7/7/10	570	59	0.94	21	6.0	13	ND<0.5	ND<0.5	ND<0.5	16
	10/27/10	420	24	0.56	2.1	0.83	12	ND<0.5	ND<0.5	ND<0.5	14
	1/25/11	1,100	64	1.1	40	9.4	9.8	ND<0.5	ND<0.5	ND<0.5	14
MW-4	2/17/10	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
	4/13/10	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
	7/6/10	ND<50	ND<0.5	ND<0.5	0.62	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	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
	1/25/11	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-5	4/13/10	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
	10/27/10	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-6	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	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
	7/6/10	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
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	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	4/13/10	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
	10/27/10	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	4/13/10	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
	10/27/10	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-9	2/18/10	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
	4/14/10	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
	10/27/10	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
	1/25/11	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-10	2/17/10	3,300	ND<0.5	ND<0.5	0.58	0.90	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	4,300	ND<0.5	ND<0.5	24	6.9	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	3,600	ND<0.5	ND<0.5	2.0	9.1	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	2,900	ND<0.5	ND<0.5	ND<0.5	2.0	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	3,500	ND<0.5	ND<0.5	1.6	2.1	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-11	2/17/10	460	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	400	ND<0.5	ND<0.5	ND<0.5	0.80	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE 2

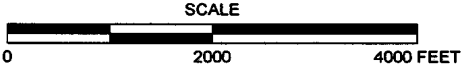
**GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	10/27/10	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-12	2/17/10	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
	4/13/10	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
	10/27/10	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
	1/25/11	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
RW-1	2/17/10	82	3.0	ND<0.5	4.0	1.4	10	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/13/10	ND<50	4.2	ND<0.5	4.8	1.1	9.7	ND<0.5	ND<0.5	ND<0.5	7.5
	7/6/10	ND<50	0.82	ND<0.5	ND<0.5	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	6.6
	1/25/11	230	17	ND<0.5	1.2	ND<0.5	9.6	ND<0.5	ND<0.5	ND<0.5	9.3
RW-2	2/18/10	620	ND<0.5	ND<0.5	ND<0.5	0.92	0.84	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/14/10	390	ND<0.5	ND<0.5	ND<0.5	1.1	0.97	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/10	380	ND<0.5	ND<0.5	ND<0.5	0.79	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	220	ND<0.5	ND<0.5	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	460	ND<0.5	ND<0.5	ND<0.5	0.70	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5
OS-1	2/18/10	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
	1/25/11	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
OS-2	2/18/10	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	1,200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
OS-3	2/18/10	1,600	180	3.7	120	140	23	ND<0.5	ND<0.5	ND<0.5	8.6
	1/25/11	140	13	ND<0.5	3.1	0.64	25	ND<0.5	ND<0.5	ND<0.5	6.7
OS-4	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	0.55	26	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5
PT-1	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/10	61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5

- (a) Samples collected before January 2008 reported by others; data provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report.
- (b) 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), analyzed by EPA Method 8260; reported in micrograms per liter (ug/l).
- (c) Environmental Screening Levels (ESLs) taken from Regional Water Quality Control Board, San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup tables dated November 2007.
- (d) NE - Not established.
- (e) ND - Not detected at the reporting limit listed.



SITE

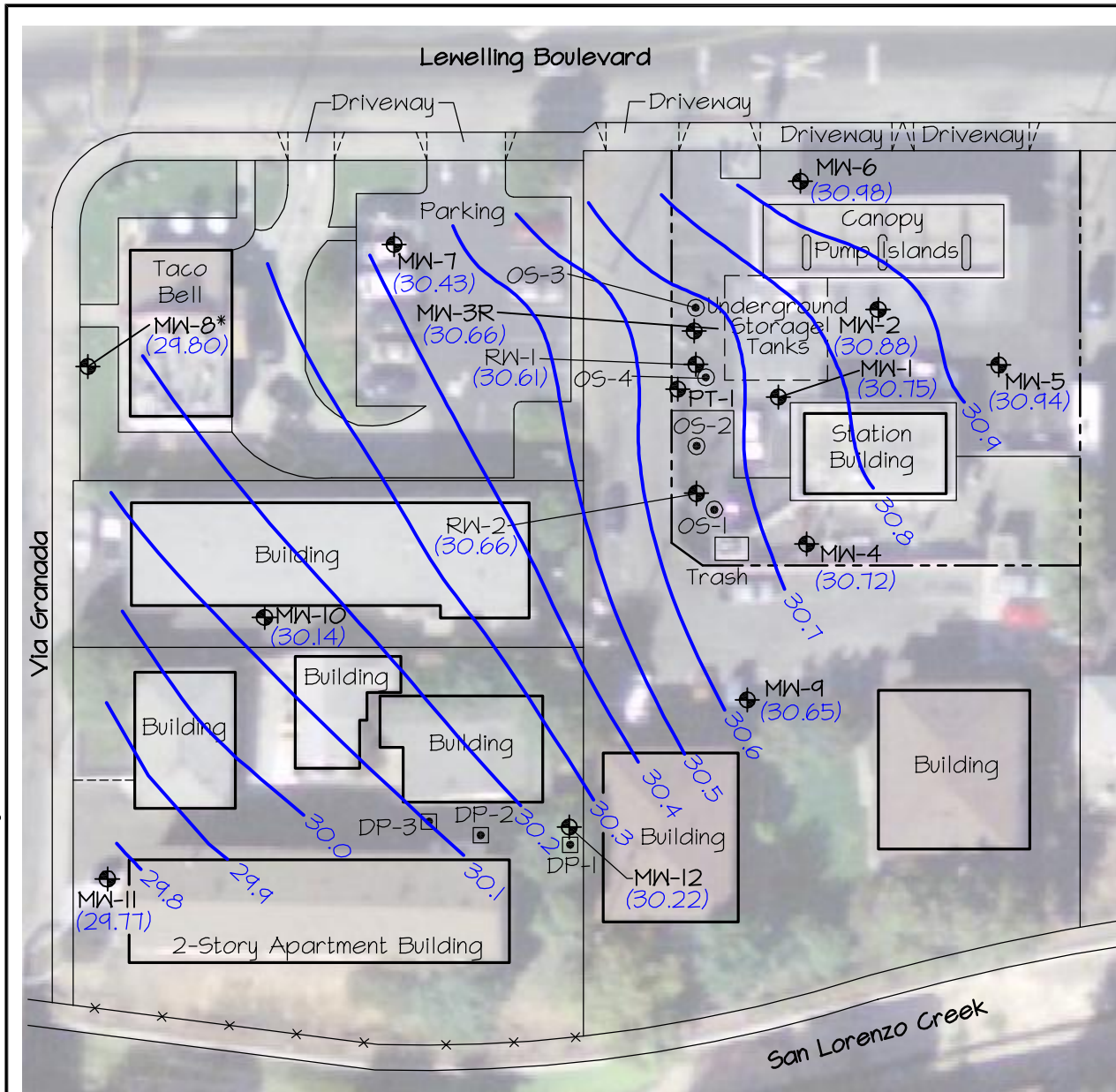


REFERENCE
 7.5 MINUTE USGS TOPOGRAPHIC MAPS OF
 SAN LEANDRO AND HAYWARD, CALIFORNIA QUADRANGLES
 DATE: 1959, PHOTOREVISED 1980
 SCALE = 1:24,000

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO, 67107			
SITE LOCATION MAP			
PROJECT NO. 01ZO	DRAWN BY MP	CHECKED BY MP	APPROVED BY JG
FILE NO. Site Map.xls	FIGURE 1		

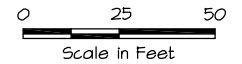
01Z011B0512.dwg

2/18/2011 10:07AM



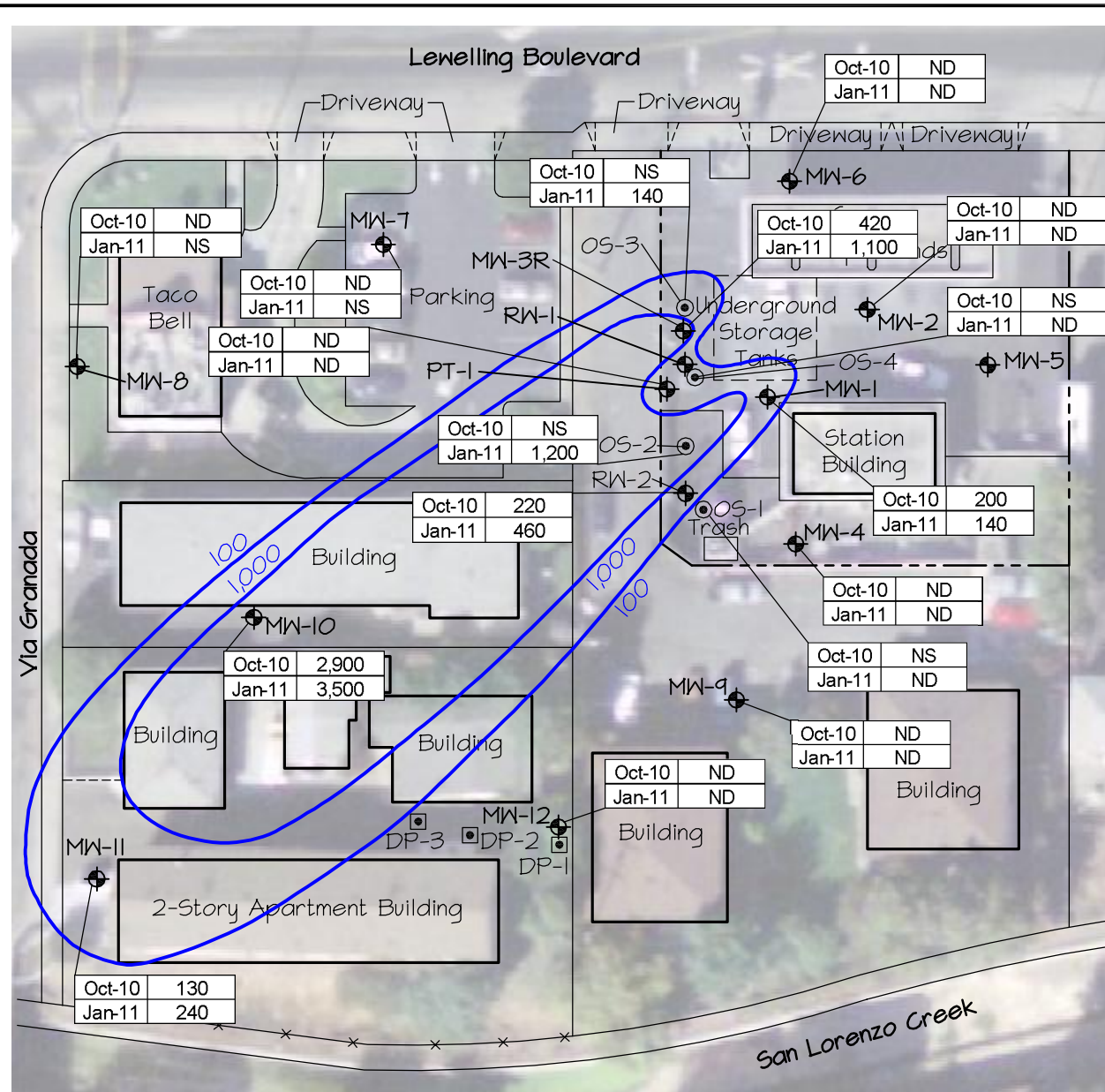
Legend

- MW-1 Monitoring Well with 25 January 2011 Groundwater Elevation (Feet MSL)
- DP-1 Soil Boring
- OS-1 Oxygen Injection Well
- * Elevation Not Used for Contours
- 30.5 Groundwater Elevation Contour (Feet MSL)



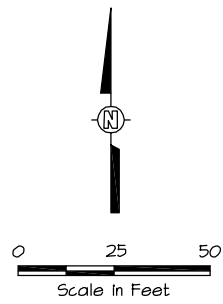
ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
SITE PLAN			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0512.DWG		FIGURE 2	

REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
12	9	MY	6/8/10	Second Quarter 2010 Status Report
	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/18/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report



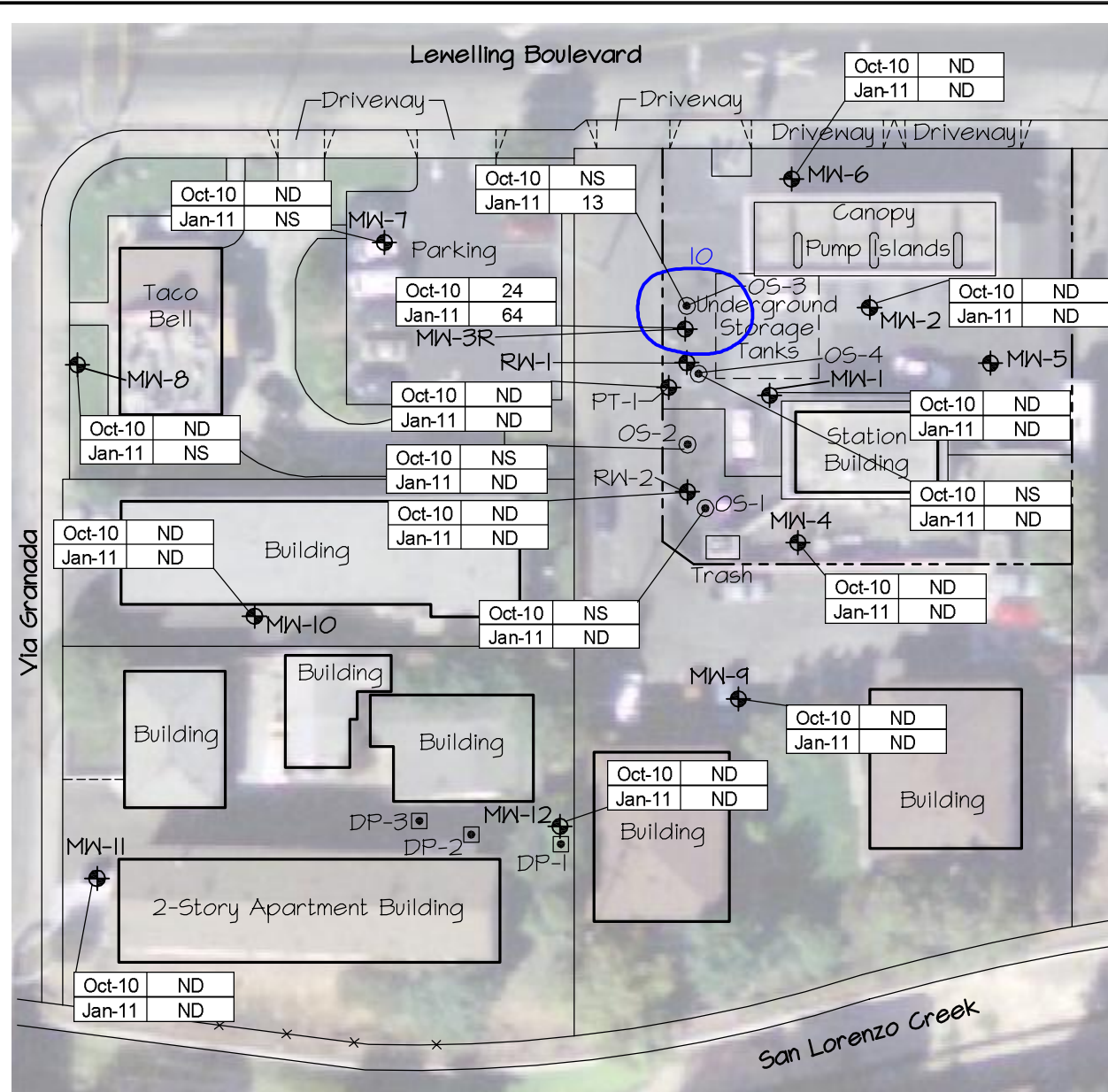
Legend

- MW-I ◉ Monitoring Well with 27 and 28 October 2010 and 25 January 2011 Total Petroleum Hydrocarbons as Gasoline (TPHg) Results in µg/l
- DP-I ◼ Soil Boring
- OS-I ◉ Oxygen Injection Well
- ND Not Detected
- 100 ——— TPHg Concentration Contour (µg/l), Queried Where Uncertain



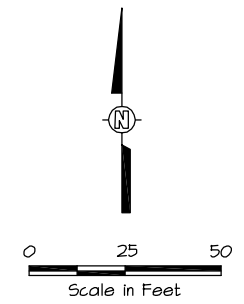
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
12	9	MY	5/20/10	Second Quarter 2010 Status Report
	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/2/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
TPHg CONCENTRATION CONTOURS IN GROUNDWATER			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0212.DWG	FIGURE 3		



Legend

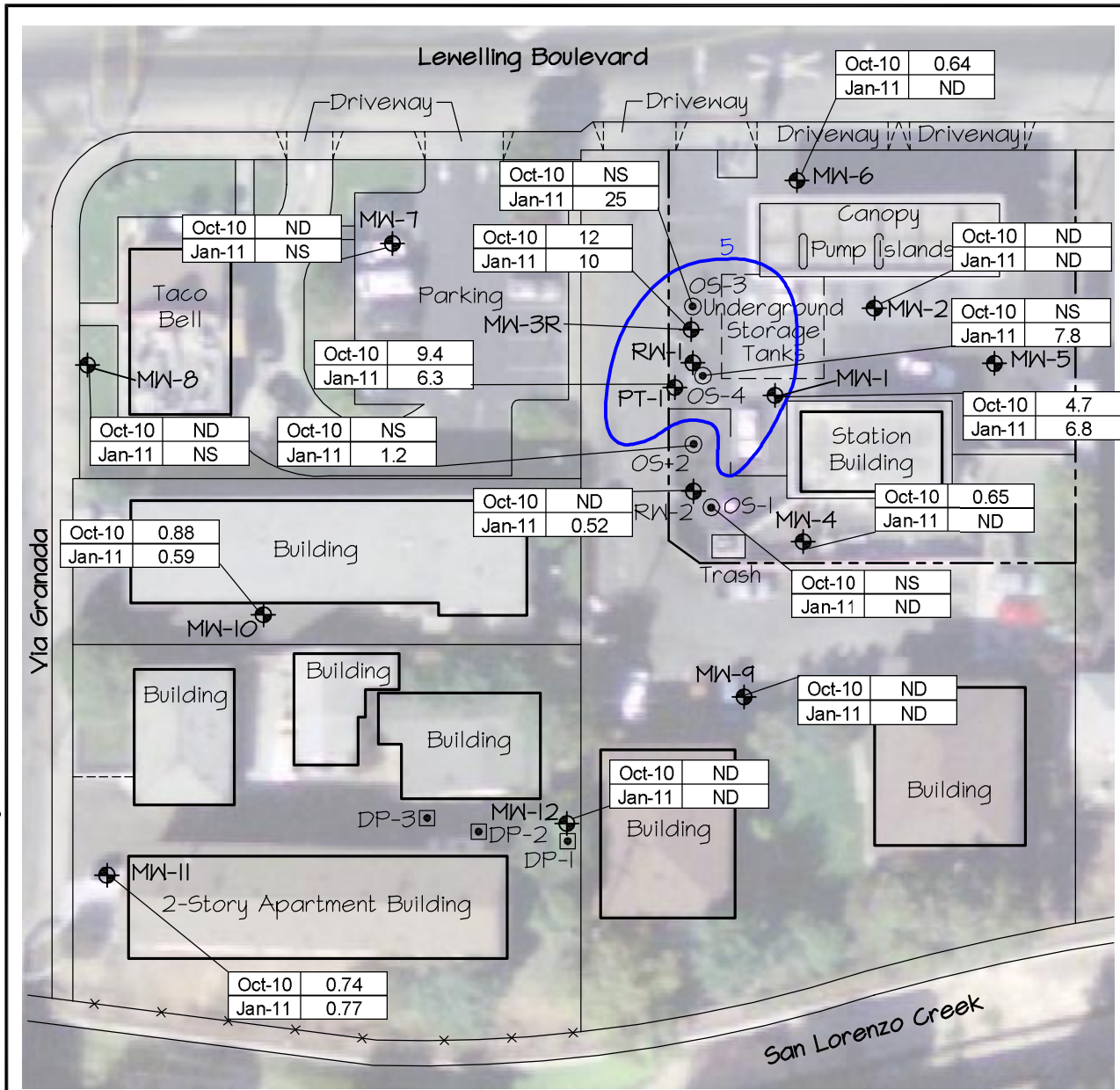
- MW-I Monitoring Well with 27 or 28 October 2010 and 25 January 2011 Benzene Results in µg/l
- OS-I Oxygen Injection Well
- DP-I Soil Boring
- ND Not Detected
- 10 Benzene Concentration Contour (µg/l), Queried Where Uncertain



ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
BENZENE CONCENTRATION CONTOURS IN GROUNDWATER			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0312.DWG		FIGURE 4	

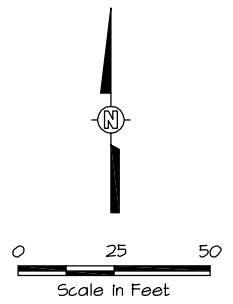
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
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	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/2/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report

2/18/2011 10:31AM 01Z011B0412.dwg



Legend

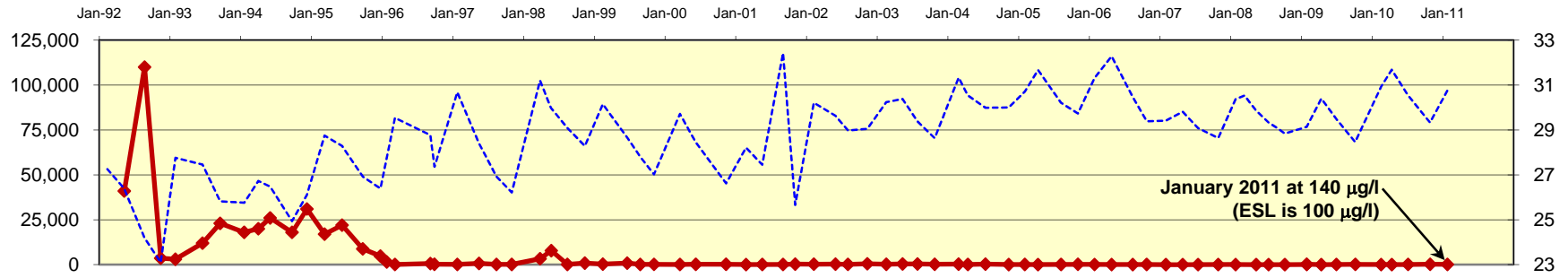
- MW-I Monitoring Well with 27 or 28 October 2010 and 25 January 2011 Methyl Tert-Butyl Ether (MTBE) Results in µg/l
- OS-I Oxygen Injection Well
- DP-I Soil Boring
- ND Not Detected
- 5 MTBE Concentration Contour (µg/l), Queried Where Uncertain



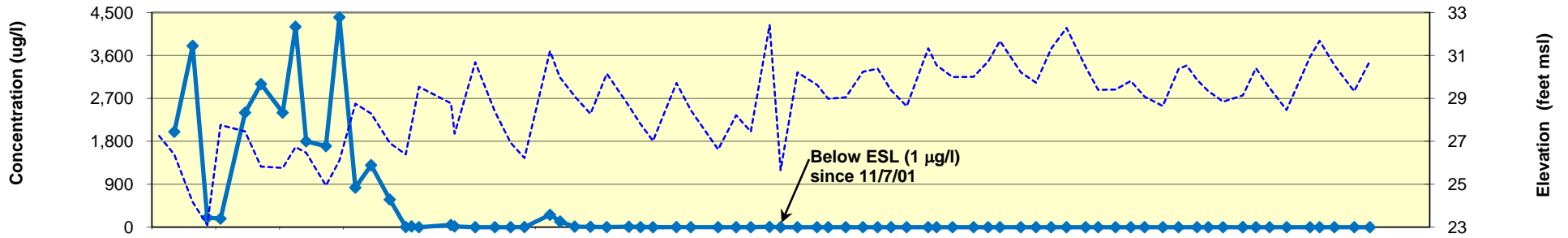
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
12	9	MY	5/20/10	Second Quarter 2010 Status Report
	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/12/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
MTBE CONCENTRATION CONTOUR IN GROUNDWATER			
PROJECT NO. O1Z0	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. O1Z011B0412.DWG		FIGURE 5	

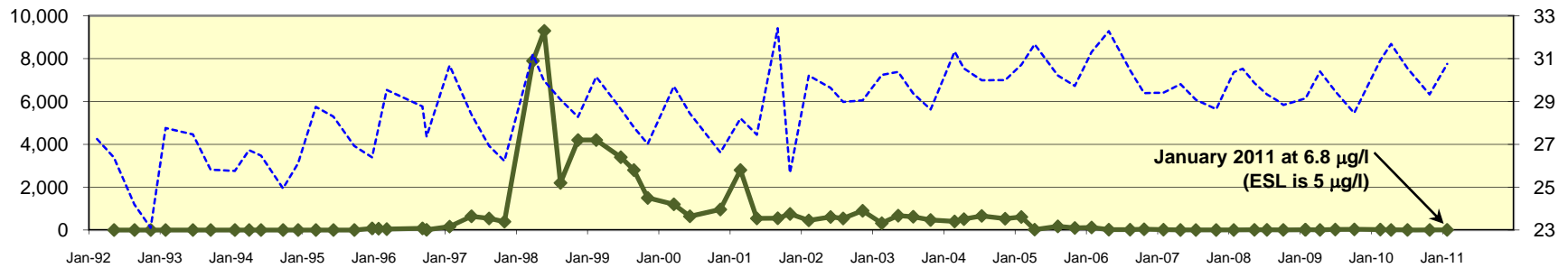
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



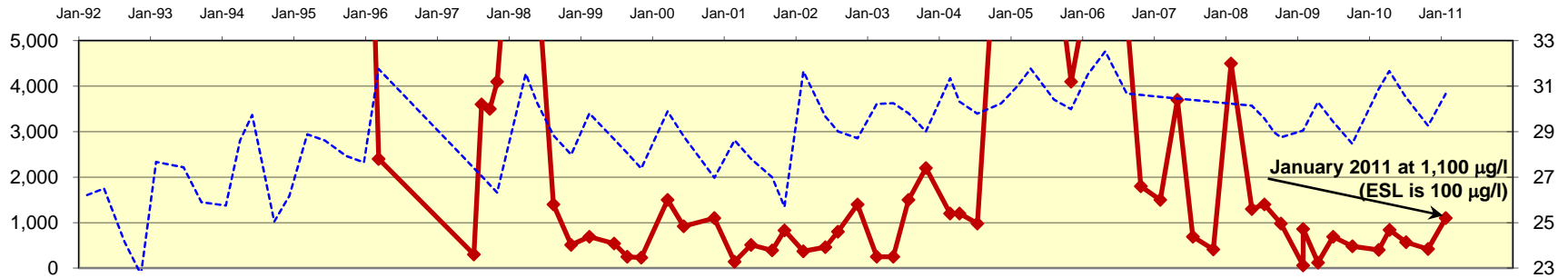
MTBE and Groundwater Elevation



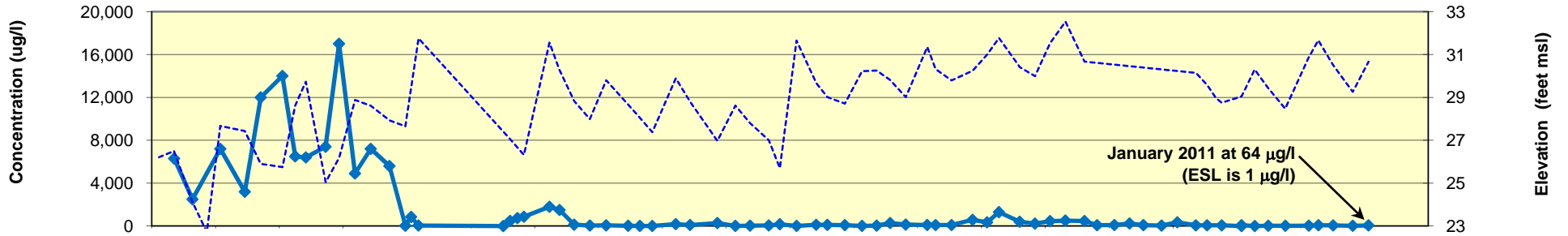
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - Groundwater Elevation

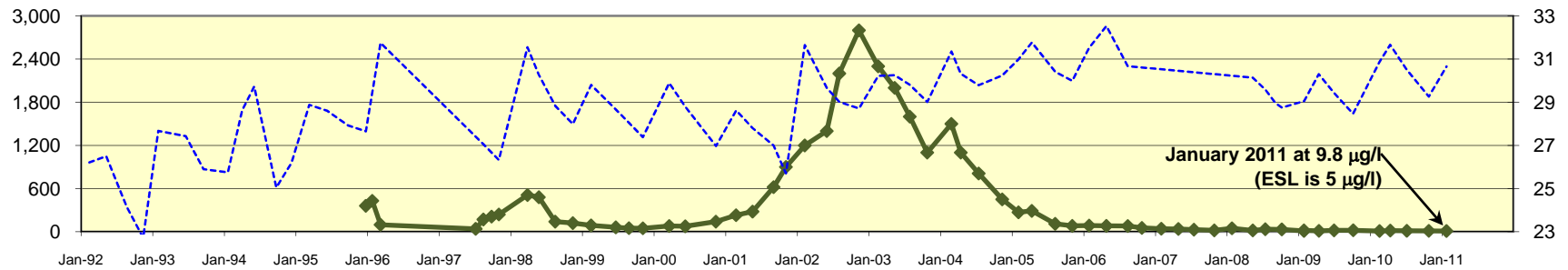
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



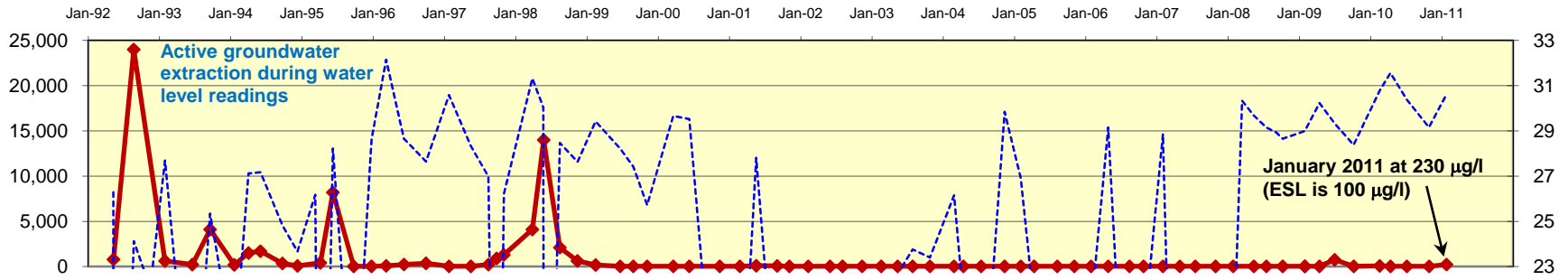
MTBE and Groundwater Elevation



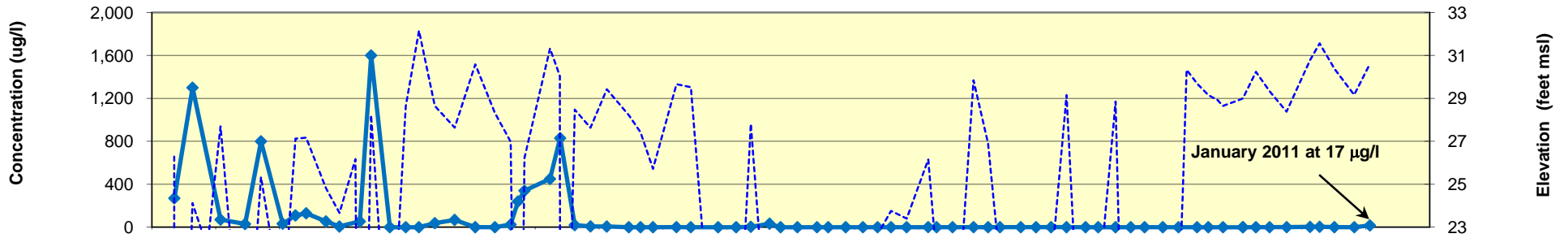
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

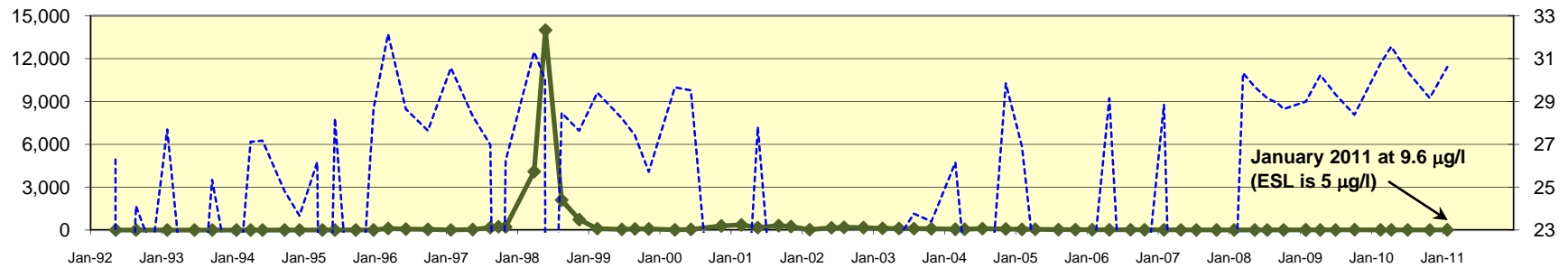
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



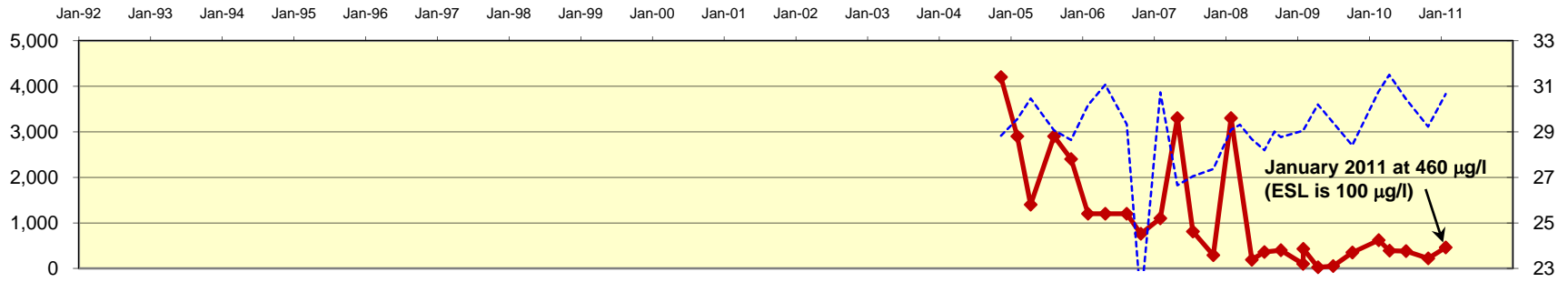
MTBE and Groundwater Elevation



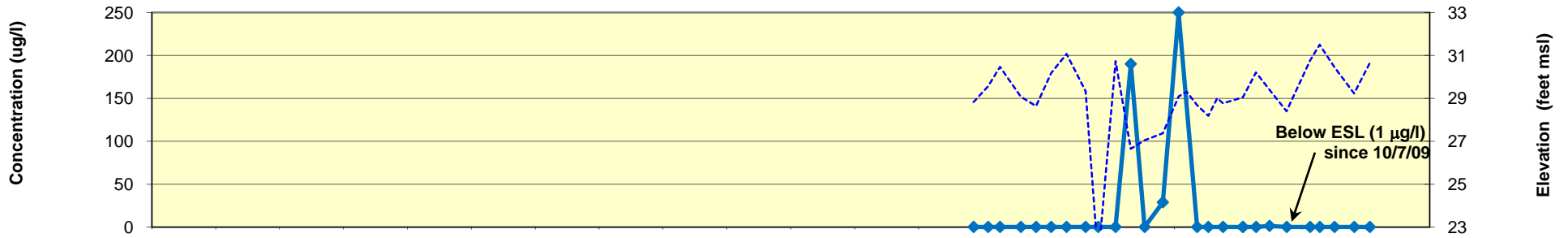
Date

—◆— TPHg
 —◆— Benzene
 —◆— MTBE
 - - - - Groundwater Elevation

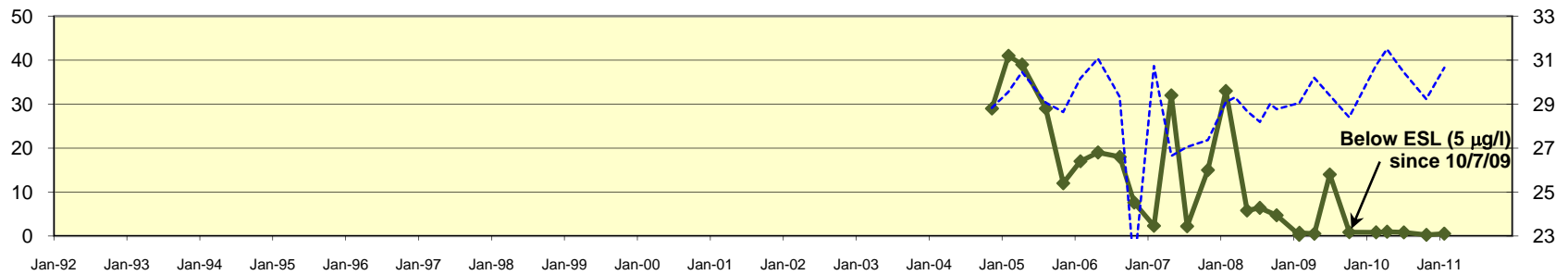
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



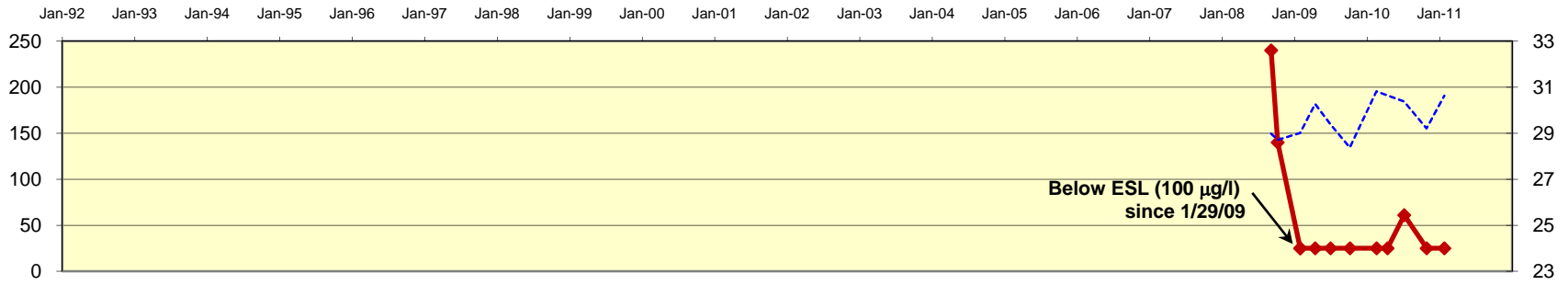
MTBE and Groundwater Elevation



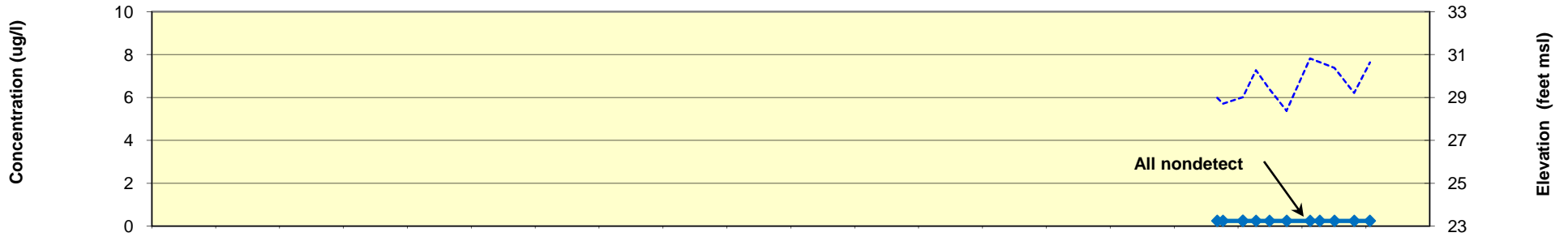
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

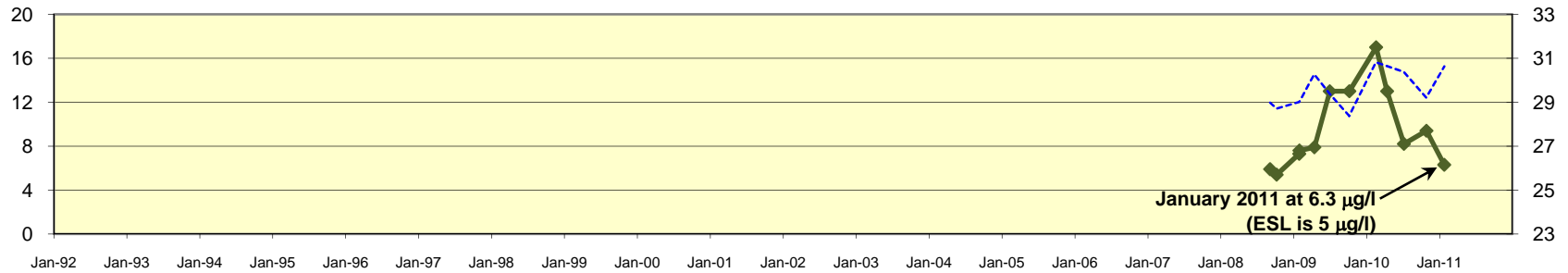
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



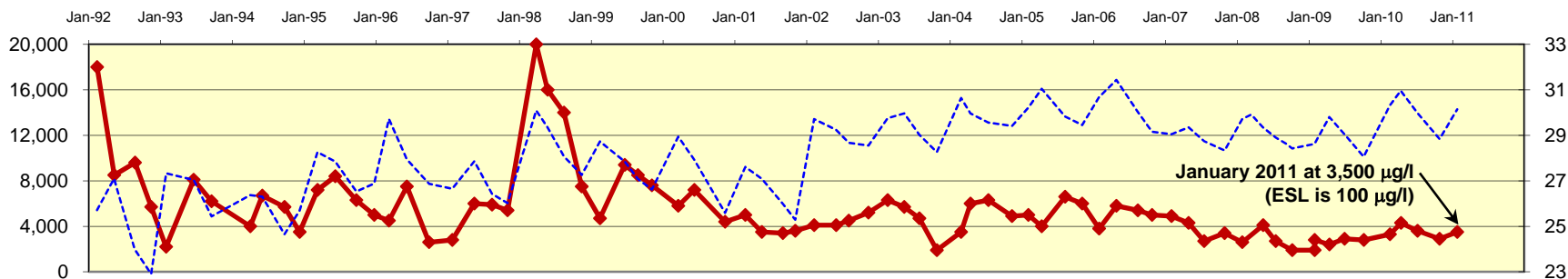
MTBE and Groundwater Elevation



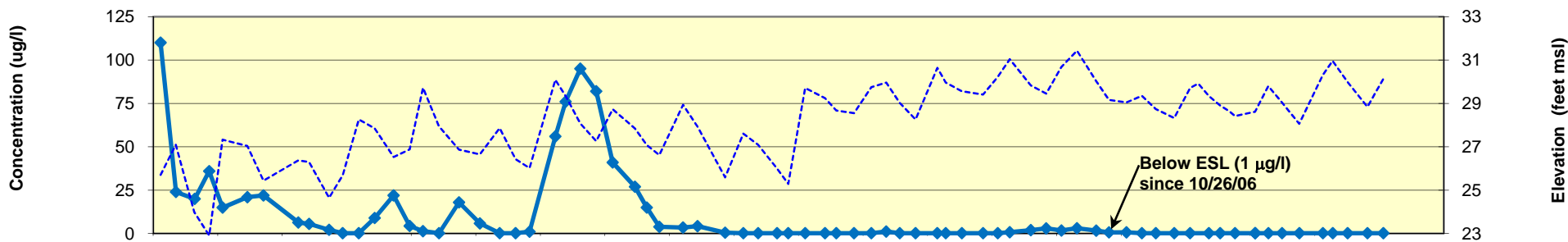
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

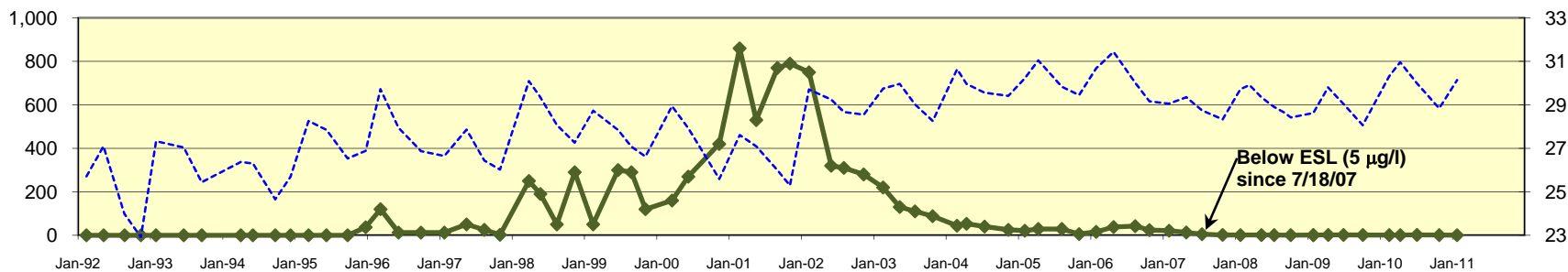
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



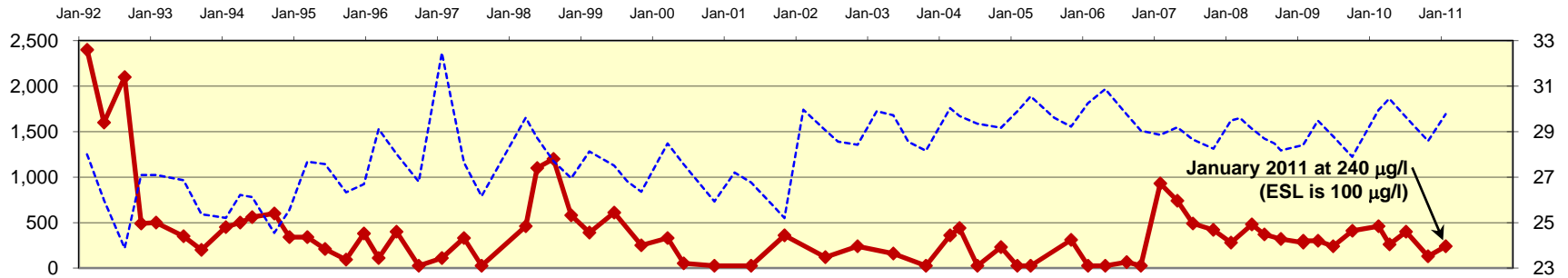
MTBE and Groundwater Elevation



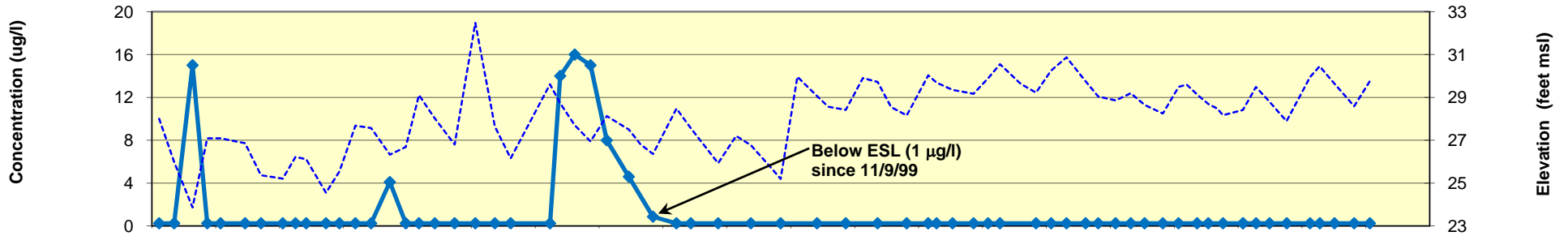
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - Groundwater Elevation

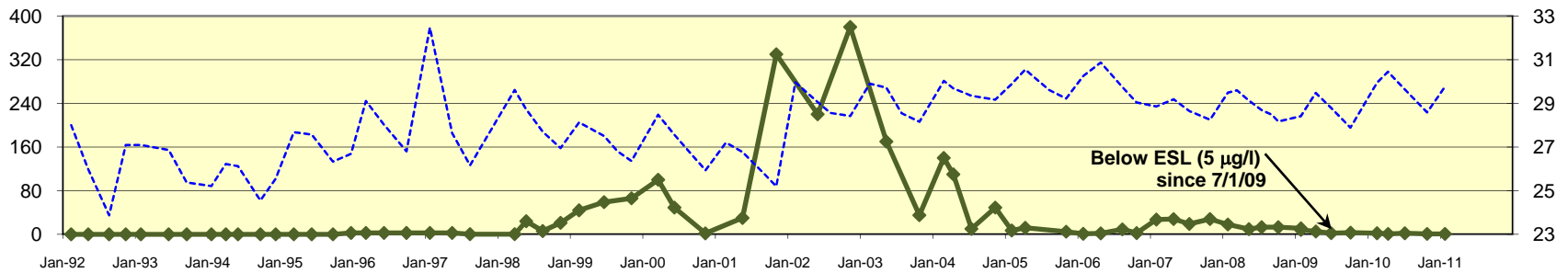
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



MTBE and Groundwater Elevation



Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

ATTACHMENT A
GROUNDWATER SAMPLING QA/QC PROCEDURES

ATTACHMENT A

GROUNDWATER SAMPLING QA/QC PROCEDURES

Purge-and-Bail Sampling

The depth to groundwater and total well depth were measured before sampling using an electronic water well sounder. Before sampling, at least 3 casing volumes were purged from each monitoring well using a submersible pump. Throughout purging, pH, conductivity, turbidity, and temperature were measured and recorded for the evacuated groundwater. These measurements were used to confirm that the well was purged sufficiently. Water samples were generally collected after the measurements of pH, conductivity, and temperature had stabilized to within 10 percent of the previous readings. Copies of the well purging and sampling logs are provided in Attachment B.

Sampling was performed with a new 1-1/2-inch-diameter disposable polyethylene bailer suspended from new nylon line. The bailer was equipped with a bottom-release device. Groundwater was collected with the bailer from just below the water surface in each monitoring well. Water samples were collected from the bailers in new 40-milliliter glass bottles provided by the analytical laboratory. The samples were collected so that no headspace was present in each bottle. The preservatives necessary for the analyses performed were provided in the glass bottles by the analytical laboratory.

The collected water samples were placed in sealable plastic bags and packed on ice in a portable ice chest immediately after collection. Samples were delivered within 24 to 48 hours to the analytical laboratory. Additional field procedures, including the use of sample identification labels and chain-of-custody forms, were followed to track sample collection and delivery.

General Field Quality Assurance/Control (QA/QC) Procedures

Chain-of-Custody Records

Chain-of-custody records were completed before samples were packaged for shipment. One copy of these records was placed in the project file. A second copy accompanied samples during transportation to the laboratory. The individual in the analytical laboratory who accepted responsibility for samples signed and dated the chain-of-custody record.

Equipment Decontamination Procedures

Field equipment was decontaminated between sampling events using the following procedures:

1. Rinsed with water using a brush to remove soil and mud.

2. Washed with non-phosphate detergent and water using a brush.
3. Rinsed with deionized or distilled water.
4. Rinsed again with deionized or distilled water.
5. Air dried.

Additional decontamination procedures are presented below:

1. Personnel dressed in suitable personal protective equipment (PPE) to reduce personal exposure.
2. Equipment that would be damaged by water (such as the battery portion of water level indicator or the pH and conductivity meters) was carefully wiped clean using a sponge and dried with new paper towels. Care was taken to prevent damage to the equipment.
3. When conducting a groundwater sampling event, evacuation and sampling equipment was decontaminated before sampling operations, between each well, and at the end of the sampling event. If dedicated equipment was used, it was rinsed with deionized water.
4. Detergent waters and rinse waters were replaced periodically depending on level of contamination. Used detergent and rinse waters were contained in 55-gallon drums approved by the Department of Transportation (DOT) or holding tanks for storage.

Personal Decontamination Procedures

At a minimum, field personnel followed the following decontamination procedures:

1. Wore appropriate gloves
2. Washed hands thoroughly with soap and water
3. Avoided unnecessary contact with groundwater.

The site health and safety plan was reviewed for site-specific personal decontamination procedures.

Wastewater and Solid Waste Storage and Disposal

Small volumes of used wash and rinse solutions were collected during field work and transported to a central decontamination area. This wastewater was containerized in labeled 55-gallon DOT drums or holding tanks and stored in a secured area at the site. At

the completion of field investigation activities or a groundwater sampling event, samples from the 55-gallon drums or holding tanks were collected and analyzed in accordance with the work or sampling plans. Once the analytical results were obtained, the Project Manager determined the appropriate disposal method for this wastewater. Non-hazardous waste manifests are included in Attachment H.

Solid wastes such as used personal protective equipment, paper towels, trash bags, and any other solid debris were collected for disposal. Because the sampled groundwater was not a hazardous waste, the solid wastes were disposed with the onsite trash.

Field Investigation Documentation Procedures

Field personnel followed documentation procedures developed for site investigation work. The procedures served to (1) provide a record of the activities performed in the field and (2) permit identification of samples and tracking of their status in the field, during shipment, and at the laboratory. All documentation was recorded with waterproof ink.

Groundwater sampling activities were documented on daily field reports and on the well purge and sample log.

Health and Safety

Arctos used a site-specific health and safety plan (HSP) with procedures that were followed by field personnel for equipment safety, medical surveillance, personal protection, air quality monitoring, exposure control, emergency response, and general work practices during field activities. Before beginning work at the site, a site safety meeting was conducted. Field personnel reviewed the HSP and signed the accompanying acknowledgment form before initiating field activities. Field personnel were required to comply with the HSP throughout performance of site assessment activities.

Analytical QA/QC Procedures

Laboratory analytical QA/QC procedures included (1) preparing and analyzing laboratory samples to assess the performance of the analytical laboratory and (2) conducting data validation in accordance with the protocols described below. QC samples prepared by the laboratory included method blanks, matrix spike and matrix spike duplicates, and laboratory control samples.

The laboratory results were reviewed in general accordance with EPA guidelines for data validation. The data validation process included reviewing laboratory results for the following parameters:

- Completeness of the data package
- Compliance with EPA-required holding times

- Agreement of dilution factors with reported detection limits
- Presence or absence of analytes in the method blanks
- Agreement of duplicate samples
- Percent recovery and relative percent difference results for matrix spike and matrix spike duplicate analyses
- Percent recovery results for laboratory control samples.

Analytical Program

Groundwater samples were analyzed by Kiff Analytical LLC (Kiff), 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, electronically submitted the groundwater monitoring results to the State Water Resources Control Board (SWRCB). The data were submitted in the State-mandated EDF format, in accordance with Assembly Bill 2886 requirements for underground storage tank (UST) sites in California. The EDFs including laboratory analytical data and quarterly groundwater elevations were transmitted through the Geotracker web portal

ATTACHMENT B
FIELD DATA SHEETS

Equipment Calibration Log

Equipment make/model	Equipment ID/serial number	Date	Time	Calibration Standards	Equipment Reading	Equipment Calibrated	Temp (°C/°F)	Tech init.	Comments
Ultrameter II	0202450	1/25/11	945	PH 4.0 7.0 10.0	4.0 7.0 10.0	✓	17.5	EM	
I	I	I	950	Cond. 1413	1410	✓	I	EA	

Notes/comments:

Water Level Measurements

Job Number: MI-110125 Date: 1/25/11 Client: ORION

Site: Tesoro 67107 San Lorenzo

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	C-D
MW-1	0923	2			15.61		33.40	TOC	13
MW-10	0938	2			14.90		28.70		18
MW-11	0935	2			17.92		29.40		15
MW-12	0855	2			17.05		28.21		6
MW-2	0920	2			14.73		33.90		12
MW-3R	0930	6			14.50		28.10		17
MW-4	0913	2			16.64		24.55		10
MW-5	0905	2			15.56		29.30		5 b/o
MW-6	0908	2			14.19		28.60		7
MW-7	0900	2			13.81		24.20		8 b/o
MW-8	0857	2			15.15		23.09		9 b/o
MW-9	0915	2			17.00		23.70		11
OS-1	0842	4			16.53	27.70			1
OS-2	0844	4			16.15	27.54			2
OS-3	0940	4			14.94	25.60			19
OS-4	0846	4			15.34	27.17			3
PT-1	0848	4			15.85		29.71		4
RW-1	0925	6			15.25		35.51		14
RW-2	0927	6			15.74		26.55		16

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-1	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 15.61	Total Depth: 33.40
Purge equip: ES - diam: <u>2</u> Bladder Peri Waterra Positive Air Displacement Ext. System	disp bailer teflon bailer other: Tubing: OD: New Dedicated NA	
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:	Pump depth/ intake: Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume)		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 2.8 X 3 = 8.5 (Total Purge) 80% = 19.17

Time	Temp (°F)	pH	Cond (mS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal) (L)	Notes
1224	19.5	7.3	561	>1000	2.5	3	
1226	19.5	7.0	561	>1000	2.5	6	
1228	20.0	7.1	572	>1000	2.5	8.5	

Did well dewater? YES NO Total volume removed: 8.5 (gal/L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: 1230 DTW at sample: 18.50

Sample ID: MW-1 Lab: Kiff Number of bottles: (3)

Analysis: See COC

Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: <u>2.30</u> Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>115</u> Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-2	Date: 1/25/11	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 14.73 Total Depth: 33.90	
Purge equip: <u>ES - diam: 2"</u> Bladder Peri Waterra Positive Air Displacement Ext. System	disp bailer teflon bailer other: Tubing: OD: New Dedicated NA	
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 3.07 X 3 = 9.21 (Total Purge)

80% = 18.56

Time	Temp (°C / °F)	pH	Cond (mS / μ S)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	Notes
1209	20.5	7.05	529	>1000	2.5	3.1	
1212	21.1	7.0	633	>1000	2.5	6.5	
1214	20.9	7.0	621	>1000	2.5	9.5	

Did well dewater? YES NO Total volume removed: 4.5 (gal / L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: 1215 DTW at sample: 18.00

Sample ID: MW-2 Lab: Kiff Number of bottles: 3

Analysis: See COC

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>1.2</u>	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>118</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-3R	Date: 1/25/11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" (6") Other:	DTW: 14.50 Total Depth: 28.10	
Purge equip: (ES - diam) Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume)		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 20.0 X 3 = 60.0 (Total Purge) 80% = 17.22

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	Notes
1420	22.1	7.0	831	38	3.5	20.0	
1425	22.2	7.0	858	33	4.0	40.0	
1430	22.3	7.0	860	30	4.0	60.0	

Did well dewater? YES NO Total volume removed: 60.0 (gal / L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1/25/11 Sample time: 1440 DTW at sample: 16.75

Sample ID: MW-3R Lab: Kiff Number of bottles: 10

Analysis: See COC

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>0.65</u>	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>65</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: <i>MW-4</i>	Date: <i>1/25/11</i>	Site: San Lorenzo
Well diam: 1/4" 1" <u>(2")</u> 3" 4" 6" Other:	DTW: <i>16.64</i>	Total Depth: <i>24.55</i>
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
<u>(disp bailer)</u> teflon bailer other:	Tubing: OD: New Dedicated NA	
Purge method: <u>(3-5 Case Volume)</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = *1.26* X 3 = *3.80* (Total Purge) 80% = *18.22*

Time	Temp (°F)	pH	Cond (mS (µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal/ L)	Notes
<i>1127</i>	<i>19.5</i>	<i>6.8</i>	<i>706</i>	<i>130</i>	—	<i>1.3</i>	
<i>1130</i>	<i>19.7</i>	<i>6.8</i>	<i>719</i>	<i>138</i>	—	<i>2.6</i>	
<i>1133</i>	<i>19.6</i>	<i>7.0</i>	<i>715</i>	<i>132</i>	—	<i>4.0</i>	
Did well dewater? YES <u>(NO)</u>				Total volume removed: <i>4.0</i> (gal/ L)			
Sample method: <u>(Disp Bailer)</u> Ded. Tubing New Tubing Ext. Port Other:							
Sample date: <i>1/25/11</i>		Sample time: <i>1135</i>			DTW at sample: <i>17.60</i>		
Sample ID: <i>MW-4</i>		Lab: Kiff			Number of bottles: <u>(3)</u>		
Analysis: See COC							
Equipment blank ID @				Field blank ID @			
Duplicate ID:				Pre-purge DO: <i>3.8</i>		Post purge DO:	
Fe ²⁺ :				Pre-purge ORP: <i>100</i>		Post purge ORP:	
NAPL depth:		Volume of NAPL:			Volume removed: ml		

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-6	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 14.19 Total Depth: 28.60	
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other: <u> </u> Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 2.3 X 3 = 6.9 (Total Purge)

80% = 17.07

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal/L)	Notes
1114	18.7	7.0	817	>1000	2.5	2.5	
1115	19.9	7.0	819	>1000	↓	5.0	
1116	19.7	7.0	823	>1000	↓	7.0	

Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Total volume removed: 20 (gal/L)	
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 1-25-11		Sample time: 1120	DTW at sample: 17.00
Sample ID: MW-6		Lab: Kiff	Number of bottles: <u>10</u>
Analysis: See COC			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO: 1.46	Post purge DO:
Fe2 ⁺ :		Pre-purge ORP: 111	Post purge ORP:
NAPL depth:	Volume of NAPL:		Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: Mw-9	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 17.00	Total Depth: 23.70
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other; Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume)		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 1.1 X 3 = 3.3 (Total Purge) 80% = 18.34

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal/L)	Notes
1150	19.5	7.3	561	127	—	1.0	
1152	19.4	7.0	562	132	—	2.0	
1154	19.5	7.0	561	137	—	3.5	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>	Total volume removed: <u>3.5</u> (gal/L)
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:	
Sample date: <u>1-25-11</u> Sample time: <u>1155</u>	DTW at sample: <u>17.00</u>
Sample ID: <u>Mw-9</u> Lab: <u>Kiff</u>	Number of bottles: <u>10</u>
Analysis: See COC	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: <u>1.4</u> Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>94</u> Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-10	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" 6" Other:	DTW: 14.90 Total Depth: 78.70	
Purge equip: ES - diam: 2" Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 2.2 X 3 = 6.6 (Total Purge)

80% = 17.66

Time	Temp (°C/°F)	pH	Cond (mS /µS)	Turbidity (NTU)	Purge Rate (gal or ml/ min)	Volume Removed (gal / L)	Notes
1334	20.1	7.0	648	61	2	2.25	
1335	20.3	7.1	647	57	2	4.5	
1336	20.3	7.1	646	53	2	6.75	

Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Total volume removed: 6.75 (gal / L)
Sample method: Disp Bailer <input checked="" type="checkbox"/> Ded. Tubing <input type="checkbox"/> New Tubing <input type="checkbox"/> Ext. Port <input type="checkbox"/> Other: <input type="checkbox"/>		
Sample date: 1-25-11	Sample time: 1340	DTW at sample: 15.12
Sample ID: MW-10	Lab: Kiff	Number of bottles: 3
Analysis: See COC		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: 0.6	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: -44	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: Mw-11	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: 1792 Total Depth: 29.40	
Purge equip: <u>ES - diam: 2"</u> Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 1.8 X 3 = 5.5 (Total Purge) 80% = 2022

Time	Temp (°C/°F)	pH	Cond (mS /µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal/L)	Notes
1321	20.0	7.0	623	51	2.5	2	
1322	19.8	7.0	620	47	2.5	4	
1323	19.7	7.0	620	43	2.5	5.5	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>5.5</u> (gal/L)
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 1-25-11	Sample time: <u>1325</u>	DTW at sample: <u>1790</u>
Sample ID: Mw-11	Lab: Kiff	Number of bottles: <u>3</u>
Analysis: See COC		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>1.9</u>	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>-53</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: MW-12	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" (2") 3" 4" 6" Other:	DTW: 17.05 Total Depth: 28.21	
Purge equip: ES - diam: 2" Bladder Peri Waterra Positive Air Displacement Ext. System	Tubing: OD: New Dedicated NA	
(disp bailer) teflon bailer other:	Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:	
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 1.8 X 3 = 5.4 (Total Purge) 80% = 19.28

Time	Temp (°/°F)	pH	Cond (mS / (°S))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal) (L)	Notes
1057	18.5	7.3	654	675	—	2	
1100	18.6	7.3	625	679	—	4	
1103	18.5	7.3	654	705	—	5.5	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>	Total volume removed: 5.5 (gal) (L)
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:	
Sample date: 1-25-11 Sample time: 1105	DTW at sample: 17.05
Sample ID: MW-12 Lab: Kiff	Number of bottles: (3)
Analysis: See COC	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: 1.0 Post purge DO:
Fe ²⁺ :	Pre-purge ORP: 111 Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125		Sampler: E Morse		Client: Orion	
Well ID: OS-1		Date: 1-25-11		Site: San Lorenzo	
Well diam: 1/4" 1" 2" 3" 4" 6" Other:				DTW: 16.53 Total Depth: 27.70	
Purge equip: ES - diam: 2" Bladder Peri Waterra Positive Air Displacement Ext. System					
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA					
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:					
Pump depth/ intake:			Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163		
(TD - DTW X Multiplier = 1 Volume)			80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 7.3 X 3 = 22 (Total Purge) 80% = 18.76

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal/ L)	Notes
0959	20.0	6.9	713	66	2.5	8	
1002	20.3	7.1	713	49	2.5	15	
1006	19.9	7.1	714	50	2.5	22	

Did well dewater? YES NO Total volume removed: 22 (gal/L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: 1010 DTW at sample: 18.73

Sample ID: OS-1 Lab: Kiff Number of bottles: 10

Analysis: See COC

Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO: <u>2.8</u>	Post purge DO:
Fe ²⁺ :		Pre-purge ORP: <u>150</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed:	ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: OS-2	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" <u>4"</u> 6" Other:	DTW: 16.15 Total Depth: 27.54	
Purge equip: ES - diam: <u>2"</u> Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon Bailer other:		
Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume 80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 7.4 X 3 = 22.5 (Total Purge) 80% = 18.43

Time	Temp (°S/°F)	pH	Cond (mS (µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal/ L)	Notes
1015	20.8	7.52	714	114	2.5	7.5	slight odor
1018	20.7	7.5	717	>1000	2.5	15.0	
1021	20.8	7.5	721	>1000	2.5	22.5	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>22.5</u> (gal/ L)
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 1-25-11	Sample time: 1025	DTW at sample: 16.33
Sample ID: OS-2	Lab: Kiff	Number of bottles: <u>10</u>
Analysis: See COC		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>1.8</u>	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>114</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: OS-3	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" <u>4"</u> 6" Other:	DTW: 14.94 Total Depth: 25.60	
Purge equip: <u>ES - diam: 2"</u> bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 6.9 X 3 = 21 (Total Purge) 80% = 17.02

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gpm or ml / min)	Volume Removed (gal / L)	Notes
1436	22.3	7.1	933	475	3.5	7.0	odor
1438	22.2	7.0	932	535	3.5	15.0	
1440	22.4	7.0	932	551	3.5	21.0	

Did well dewater? YES NO Total volume removed: 21.0 (gal/L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: 1450 DTW at sample: 17.00

Sample ID: OS-3 Lab: Kiff Number of bottles: 10

Analysis: See COC

Equipment blank ID @ _____ Field blank ID @ _____

Duplicate ID: _____ Pre-purge DO: 0.6 Post purge DO: _____

Fe²⁺: _____ Pre-purge ORP: -56 Post purge ORP: _____

NAPL depth: _____ Volume of NAPL: _____ Volume removed: _____ ml

Purging And Sampling Data Sheet

Job#: M1-110125		Sampler: E Morse		Client: Orion	
Well ID: OS-4 20		Date: 1/25/11		Site: San Lorenzo	
Well diam: 1/4" 1" 2" 3" (4) 6" Other:				DTW: 27.71534	
Total Depth: 75.34217					
Purge equip: <u>ES - diam</u> Bladder Peri Waterra Positive Air Displacement Ext. System					
disp bailer teflon baller other: Tubing: OD: New Dedicated NA					
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:					
Pump depth/ intake:		Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163			
(TD - DTW X Multiplier = 1 Volume			80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 7.68 X 3 = 23.07 (Total Purge)

80% = 17.71

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal/ L)	Notes
1027	19.6	7.3	728	50	2.5	8.0	
1030	19.5	7.3	696	37	2.5	16.0	
1033	19.6	7.3	718	35	2.5	24.0	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>24.0</u> (gal/L)	
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:			
Sample date: <u>1/25/11</u>		Sample time: <u>1040</u>	
DTW at sample: <u>17.65</u>			
Sample ID: <u>OS-4</u>		Lab: <u>Kiff</u>	
Number of bottles: <u>10</u>			
Analysis: <u>See COC</u>			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO: <u>7.1</u>	
Post purge DO:			
Fe ²⁺ :		Pre-purge ORP: <u>57</u>	
Post purge ORP:			
NAPL depth:		Volume removed: <u> </u> ml	
Volume of NAPL:			

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: Rw-1	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" <u>6"</u> Other:	DTW: 15.25 Total Depth: 35.51	
Purge equip: <u>ES - diam: 2"</u> Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:		
Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 30 X 3 = 90 (Total Purge) 80% = 19.30

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gpm or mL / min)	Volume Removed (gal / L)	Notes
1251	21.2	7.0	836	15.0	3.0	30	
1301	21.6	7.0	836	8	3.0	60	
1311	21.5	7.1	836	8	3.0	90	

Did well dewater? YES NO Total volume removed: 90.0 (gal / L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: ~~7:15~~ ^{JK} 1415 DTW at sample: 15.37

Sample ID: Rw-1 Lab: Kiff Number of bottles: 3

Analysis: See COC

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>0.8</u>	Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>95</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: RW-2	Date: 1-25-11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" (6") Other:	DTW: 15.74 Total Depth: 26.55	
Purge equip: ES - diam: 2" Bladder Peri Waterra Positive Air Displacement Ext. System	disp bailer teflon bailer other:	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:	Tubing: OD: New Dedicated NA	
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 15.9 X 3 = 47.7 (Total Purge)

80% = 17.90

Time	Temp (°F)	pH	Cond (mS/mS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal/L)	Notes
1354	21.3	7.3	756	46	3.0	16.0	
1359	21.3	7.2	740	38	↓	32.0	
1404	21.5	7.2	737	37	↓	48.0	

Did well dewater? YES NO

Total volume removed: 48.0 (gal) L

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 1-25-11 Sample time: 1405 DTW at sample: 17.75

Sample ID: RW-2 Lab: Kiff Number of bottles: 10

Analysis: See COC

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: 0.5 Post purge DO:

Fe²⁺: Pre-purge ORP: 35 Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-110125	Sampler: E Morse	Client: Orion
Well ID: PT-1	Date: 1/25/11	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" (4) 6" Other:	DTW: 15.85	Total Depth: 29.71
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 9.0 X 3 = 27.0 (Total Purge) 80% = 18.62

Time	Temp (°C/°F)	pH	Cond (mS (µS))	Turbidity (NTU)	Purge Rate (gal or ml/ min)	Volume Removed (gal / L)	Notes
1040	19.3	7.2	775	>1000	—	9.0	
	Dewatered @				—	12.0	
1243	20.6	7.3	762	53	—	—	

Did well dewater? <u>YES</u> NO		Total volume removed: <u>12.0</u> (gal/L)	
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 1/25/11	Sample time: 1245	DTW at sample: 15.90	
Sample ID: PT-1	Lab: Kiff	Number of bottles: 1	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO: 2.5	Post purge DO:	
Fe ²⁺ :	Pre-purge ORP: 105	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 LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-1	2/18/92	16.42	43.67	27.25
	5/14/92	17.28		26.39
	5/15/92	NM ^(c)		-- ^(d)
	8/27/92	19.48		24.19
	8/28/92	NM		--
	11/19/92	20.57		23.10
	2/3/93	15.91		27.76
	6/23/93	16.21		27.46
	9/22/93	17.85		25.82
	1/24/94	17.91		25.76
	4/7/94	16.94		26.73
	6/7/94	17.20		26.47
	9/28/94	18.73		24.94
	12/14/94	17.56		26.11
	3/15/95	14.92		28.75
	6/13/95	15.38		28.29
	9/28/95	16.75		26.92
	12/28/95	17.28		26.39
	1/30/96	NM		--
	3/12/96	14.13		29.54
	9/11/96	14.90		28.77
	10/2/96	16.31		27.36
	1/28/97	12.99		30.68
	5/20/97	15.28		28.39
	8/18/97	16.74		26.93
	9/29/97	NM		--
	11/5/97	17.45		26.22
	3/31/98	12.47		31.20
5/26/98	13.69	29.98		
5/28/98	NM	--		
8/19/98	14.58	29.09		
11/17/98	15.39	28.28		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)	
MW-1 (cont.)	2/18/99	13.52	43.67	30.15	
	6/24/99	15.02		28.65	
	8/30/99	15.87		27.80	
	11/9/99	16.65		27.02	
	3/22/00	13.96		29.71	
	6/12/00	15.23		28.44	
	11/15/00	17.05		26.62	
	2/26/01	15.46		28.21	
	5/21/01	16.22		27.45	
	9/5/01	11.25		32.42	
	11/7/01	18.01		25.66	
	2/11/02	15.77		45.98	30.21
	6/3/02	16.35			29.63
	8/6/02	17.00	28.98		
	11/14/02	16.93	29.05		
	2/20/03	15.74	30.24		
	5/15/03	15.60	30.38		
	7/31/03	16.60	29.38		
	10/28/03	17.35	28.63		
	2/28/04	14.65	31.33		
	4/16/04	15.44	30.54		
	7/16/04	15.99	29.99		
	11/13/04	15.98	30.00		
	2/4/05	15.27	30.71		
	4/13/05	14.31	31.67		
	8/10/05	15.77	30.21		
	11/5/05	16.25	29.73		
	1/30/06	14.67	31.31		
	4/28/06	13.70	32.28		
	8/15/06	15.52	30.46		
	10/26/06	16.59	29.39		
	2/2/07	16.57	29.41		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-1 (cont.)	4/30/07	16.17	45.98	29.81
	7/18/07	16.90		29.08
	10/30/07	17.34		28.64
	1/28/08	15.61		30.37
	3/14/08	15.45		30.53
	5/13/08	16.12		29.86
	7/16/08	16.65		29.33
	9/5/08	17.31	46.36	29.05
	10/8/08	17.52		28.84
	1/29/09	17.22		29.14
	4/14/09	15.96		30.40
	7/1/09	16.88		29.48
	10/6/09	17.90		28.46
	2/17/10	15.43		30.93
	4/13/10	14.68		31.68
	7/6/10	15.82		30.54
	10/27/10	17.03		29.33
	1/25/11	15.61		30.75
MW-2	2/18/92	16.65	43.09	26.44
	5/14/92	16.64		26.45
	8/27/92	16.61		26.48
	11/19/92	19.91		23.18
	2/3/93	15.23		27.86
	6/23/93	15.55		27.54
	9/22/93	17.22		25.87
	1/24/94	17.20		25.89
	4/7/94	16.26		26.83
	6/7/94	16.46		26.63
	9/28/94	18.06		25.03
	12/14/94	16.86		26.23
	3/15/95	14.08		29.01
	6/13/95	14.67		28.42
9/28/95	16.07	27.02		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-2 (cont.)	12/28/95	16.46	43.09	26.63
	3/12/96	13.11		29.98
	6/13/96	14.14		28.95
	10/2/96	15.71		27.38
	1/28/97	12.05		31.04
	5/20/97	14.65		28.44
	8/18/97	16.00		27.09
	9/29/97	NM		--
	11/5/97	16.75		26.34
	3/31/98	11.54		31.55
	5/26/98	12.78		30.31
	5/28/98	NM		--
	8/19/98	14.40		28.39
	11/17/98	15.18		27.63
	2/18/99	14.07		27.06
	6/24/99	14.70		30.04
	8/30/99	15.46		28.59
	11/9/99	16.03		26.81
	3/22/00	13.05		28.11
	6/12/00	14.50		27.64
	11/15/00	16.28		27.92
	2/26/01	14.98	26.04	
	5/21/01	15.45	29.80	
	9/5/01	15.17	28.25	
	11/7/01	17.05	28.24	
	2/11/02	13.29	45.23	31.94
	6/3/02	14.84		30.39
	8/6/02	14.85		30.38
	11/14/02	15.35		29.88
	2/20/03	14.08		31.15
	5/15/03	14.55		30.68
	7/31/03	15.30		29.93
10/28/03	14.93	30.30		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-2 (cont.)	2/28/04	13.56	45.23	31.67
	4/16/04	14.40		30.83
	7/16/04	15.03		30.20
	11/13/04	15.00		30.23
	2/4/05	14.26		30.97
	4/13/05	13.19		32.04
	8/10/05	14.84		30.39
	11/5/05	15.39		29.84
	1/30/06	13.54		31.69
	4/28/06	12.55		32.68
	8/15/06	14.57		30.66
	10/26/06	15.54		29.69
	2/2/07	15.60		29.63
	4/30/07	15.19		30.04
	7/18/07	15.96		29.27
	10/30/07	16.41		28.82
	1/28/08	14.63		30.60
	3/14/08	14.57		30.66
	5/13/08	15.12		30.11
	7/16/08	15.89	29.34	
	9/5/08	16.44	45.61	29.17
	10/8/08	16.75		28.86
	1/29/09	16.35		29.26
4/14/09	15.05	30.56		
7/1/09	16.02	29.59		
10/6/09	17.10	28.51		
2/17/10	14.50	31.11		
4/13/10	13.55	32.06		
7/6/10	14.96	30.65		
10/27/10	16.18	29.43		
1/25/11	14.73	30.88		
MW-3	2/18/92	16.89	43.10	26.21
	5/14/92	16.60		26.50

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3 (cont.)	5/15/92	NM	43.10	--
	8/27/92	18.96		24.14
	8/28/92	NM		--
	11/18/92	20.38		22.72
	11/19/92	NM		--
	2/3/93	15.43		27.67
	6/23/93	15.67		27.43
	9/22/93	17.20		25.90
	1/24/94	17.35		25.75
	4/7/94	14.48		28.62
	6/7/94	13.37		29.73
	9/28/94	18.05		25.05
	12/14/94	16.92		26.18
	3/15/95	14.22		28.88
	6/13/95	14.49		28.61
	9/28/95	15.17		27.93
	12/28/95	15.45		27.65
	1/30/96	NM		--
	3/12/96	11.35		31.75
	6/11/96	Dry ^(e)		--
	10/2/96	Dry ^(e)		--
	1/28/97	Dry ^(e)		--
	5/20/97	Dry ^(e)		--
	7/10/97	NM		--
	8/18/97	16.05		27.05
	9/29/97	NM		--
	11/5/97	16.78		26.32
	3/31/98	11.55		31.55
	5/26/98	12.80		30.30
	5/28/98	NM		--
8/19/98	14.27	28.83		
11/17/98	15.11	27.99		
2/18/99	13.30	29.80		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3 (cont.)	6/24/99	14.44	43.10	28.66
	8/30/99	15.05		28.05
	11/9/99	15.72		27.38
	3/22/00	13.21		29.89
	6/12/00	14.31		28.79
	11/15/00	16.13		26.97
	2/26/01	14.48		28.62
	5/21/01	15.30		27.80
	9/5/01	16.10		27.00
	11/7/01	17.40		25.70
	2/11/02	13.56	45.21	31.65
	6/3/02	15.54		29.67
	8/6/02	16.20		29.01
	11/14/02	16.50		28.71
	2/20/03	14.99		30.22
	5/15/03	14.96		30.25
	7/31/03	15.40		29.81
	10/28/03	16.20		29.01
	2/28/04	13.86		31.35
	4/16/04	14.89		30.32
7/16/04	15.42	29.79		
MW-3R	11/13/04	14.97	45.21	30.24
	2/4/05	14.22		30.99
	4/13/05	13.44		31.77
	8/10/05	14.80		30.41
	11/5/05	15.22		29.99
	1/30/06	13.69		31.52
	4/28/06	12.68		32.53
	8/15/06	14.54		30.67
	10/26/06	23.85		21.36
	2/2/07	21.96		23.25
	4/30/07	19.40		25.81

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3R (cont.)	7/18/07	23.11	45.21	22.10
	10/30/07	22.71		22.50
	1/28/08	16.78		28.43
	3/14/08	14.38		30.83
	5/13/08	15.07		30.14
	7/16/08	15.63		29.58
	9/5/08	16.20		28.96
	10/8/08	16.41		28.75
	1/29/09	16.11		29.05
	4/14/09	14.86		30.30
	7/1/09	15.73		29.43
	10/6/09	16.69		28.47
	2/17/10	14.30		30.86
	4/13/10	13.50		31.66
	7/6/10	14.70		30.51
10/27/10	15.90	29.26		
1/25/11	14.50	30.66		
MW-4	2/18/92	18.51	44.66	26.15
	5/14/92	18.22		26.44
	8/27/92	20.47		24.19
	8/28/92	NM		--
	11/19/92	21.58		23.08
	2/3/93	16.98		27.68
	6/23/93	17.23		27.43
	9/22/93	18.83		25.83
	1/24/94	18.86		25.80
	4/7/94	17.90		26.76
	6/7/94	18.08		26.58
	9/28/94	19.70		24.96
	12/14/94	18.55		26.11
	3/15/95	16.14		28.52
	6/13/95	16.41		28.25
9/28/95	17.88	26.78		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-4 (cont.)	12/28/95	17.81	44.66	26.85
	3/12/96	14.77		29.89
	6/11/96	15.88		28.78
	10/2/96	17.40		27.26
	1/28/97	14.11		30.55
	5/20/97	16.24		28.42
	8/18/97	17.59		27.07
	9/29/97	NM		--
	11/5/97	18.24		26.42
	3/31/98	13.61		31.05
	5/26/98	14.78		29.88
	5/28/98	NM		--
	8/19/98	16.15		28.51
	11/17/98	16.93		27.73
	2/18/99	15.30		29.36
	6/24/99	16.35		28.31
	8/30/99	17.12		27.54
	11/9/99	17.60		27.06
	3/22/00	14.98		29.68
	6/12/00	16.26		28.40
	11/15/00	17.98	26.68	
	2/26/01	16.31	28.35	
	5/21/01	17.15	27.51	
	9/5/01	18.22	26.44	
	11/7/01	19.01	25.65	
	2/11/02	16.68	46.98	30.30
	6/3/02	17.29		29.69
	8/6/02	17.92		29.06
	11/14/02	17.92		29.06
	2/20/03	16.72		30.26
5/15/03	16.51	30.47		
7/31/03	17.41	29.57		
10/28/03	18.30	28.68		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-4 (cont.)	2/28/04	15.82	46.98	31.16
	4/16/04	16.42		30.56
	7/16/04	16.94		30.04
	11/13/04	17.00		29.98
	2/4/05	16.25		30.73
	4/13/05	15.33		31.65
	8/10/05	16.74		30.24
	11/5/05	17.23		29.75
	1/30/06	15.62		31.36
	4/28/06	14.71		32.27
	8/15/06	16.46		30.52
	10/26/06	17.45		29.53
	2/2/07	17.52		29.46
	4/30/07	17.10		29.88
	7/18/07	17.81		29.17
	10/30/07	18.25		28.73
	1/28/08	16.65		30.33
	3/14/08	16.48		30.50
	5/13/08	17.11		29.87
	7/16/08	17.63	29.35	
	9/5/08	18.29	47.36	29.07
	10/8/08	18.50		28.86
	1/29/09	18.20		29.16
4/14/09	17.02	30.34		
7/1/09	17.86	29.50		
10/6/09	18.90	28.46		
2/17/10	16.49	30.87		
4/13/10	15.80	31.56		
7/6/10	16.82	30.54		
10/27/10	18.02	29.34		
1/25/11	16.64	30.72		
MW-5	2/18/92	17.37	43.79	26.42
	5/14/92	17.29		26.50

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5	8/27/92	22.18	43.79	21.61
(cont.)	11/19/92	20.68		23.11
	2/3/93	15.91		27.88
	6/23/93	16.24		27.55
	9/22/93	17.93		25.86
	1/24/94	17.82		25.97
	4/7/94	16.91		26.88
	6/7/94	17.10		26.69
	9/28/94	18.73		25.06
	12/14/94	17.53		26.26
	3/15/95	14.96		28.83
	6/13/95	15.30		28.49
	9/28/95	16.74		27.05
	12/28/95	15.10		28.69
	3/12/96	13.67		30.12
	6/11/96	14.88		28.91
	10/2/96	16.42		27.37
	1/28/97	12.83		30.96
	5/20/97	15.33		28.46
	8/18/97	16.69		27.10
	9/29/97	NM		--
	11/5/97	17.37		26.42
	3/31/98	12.40		31.39
	5/26/98	13.62		30.17
	5/28/98	NM		--
	8/19/98	15.19		28.60
	11/17/98	15.89		27.90
	2/18/99	14.23		29.56
	6/24/99	15.29		28.50
	8/30/99	16.07		27.72
	11/9/99	16.61	27.18	
	3/22/00	13.81	29.98	
	6/12/00	15.08	28.71	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5 (cont.)	11/15/00	16.71	43.79	27.08
	2/26/01	15.05		28.74
	5/21/01	15.91		27.88
	9/5/01	16.99		26.80
	11/7/01	17.51		26.28
	2/11/02	14.31		46.12
	6/3/02	14.96	31.16	
	8/6/02	15.65	30.47	
	11/14/02	15.69	30.43	
	2/20/03	14.19	31.93	
	5/15/03	15.44	30.68	
	7/31/03	16.48	29.64	
	10/28/03	16.92	29.20	
	2/28/04	14.64	31.48	
	4/16/04	15.28	30.84	
	7/16/04	15.88	30.24	
	11/13/04	15.98	30.14	
	2/4/05	15.17	30.95	
	4/13/05	14.12	32.00	
	8/10/05	15.69	30.43	
	11/5/05	16.32	29.80	
	1/30/06	14.49	31.63	
	4/28/06	13.51	32.61	
	8/15/06	15.46	30.66	
	10/26/06	16.42	29.70	
	2/2/07	16.49	29.63	
	4/30/07	16.10	30.02	
7/18/07	16.80	29.32		
10/30/07	17.25	28.87		
1/28/08	15.47	30.65		
3/14/08	15.46	30.66		
5/13/08	16.15	29.97		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5 (cont.)	7/16/08	16.71	46.12	29.41
	9/5/08	17.34	46.50	29.16
	10/8/08	17.60		28.90
	1/29/09	17.23		29.27
	4/14/09	15.95		30.55
	7/1/09	16.89		29.61
	10/6/09	18.00		28.50
	2/17/10	15.40		31.10
	4/13/10	14.60		31.90
	7/6/10	15.83		30.67
	10/27/10	17.08		29.42
	1/25/11	15.56		30.94
MW-6	2/18/92	15.87	42.47	26.60
	5/14/92	16.04		26.43
	8/27/92	18.17		24.30
	11/19/92	19.30		23.17
	2/3/93	14.60		27.87
	6/23/93	15.00		27.47
	9/22/93	16.66		25.81
	1/24/94	16.52		25.95
	4/7/94	15.70		26.77
	6/7/94	15.88		26.59
	9/28/94	17.51		24.96
	12/14/94	16.27		26.20
	3/15/95	13.52		28.95
	6/13/95	13.96		28.51
	9/28/95	15.61		26.86
	12/28/95	15.54		26.93
	1/30/96	NM		--
	3/12/96	11.88		30.59
	6/11/96	13.52		28.95
10/2/96	15.10	27.37		
1/28/97	11.18	31.29		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-6 (cont.)	5/20/97	14.00	42.47	28.47
	8/18/97	15.54		26.93
	9/29/97	NM		--
	11/5/97	16.25		26.22
	3/31/98	10.60		31.87
	5/26/98	12.01		30.46
	5/28/98	NM		--
	8/19/98	13.60		28.87
	11/17/98	14.53		27.94
	2/18/99	12.39		30.08
	6/24/99	13.89		28.58
	8/30/99	14.75		27.72
	11/9/99	15.18		27.29
	3/22/00	12.30		30.17
	6/12/00	13.69		28.78
	11/15/00	15.73		26.74
	2/26/01	14.42		28.05
	5/21/01	15.23		27.24
	9/5/01	16.31		26.16
	11/7/01	17.01		25.46
	2/11/02	15.72	44.79	29.07
	6/3/02	16.39		28.40
	8/6/02	18.90		25.89
	11/14/02	18.93		25.86
	2/20/03	15.64		29.15
	5/15/03	14.07		30.72
	7/31/03	15.21		29.58
	10/28/03	15.73		29.06
	2/28/04	13.12		31.67
	4/16/04	13.92		30.87
	7/16/04	14.53		30.26
	11/13/04	14.62		30.17
2/4/05	13.74	31.05		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-6 (cont.)	4/13/05	15.59	44.79	29.20
	8/10/05	14.33		30.46
	11/5/05	14.98		29.81
	1/30/06	12.99		31.80
	4/28/06	11.90		32.89
	8/15/06	14.13		30.66
	10/26/06	15.08		29.71
	2/2/07	15.16		29.63
	4/30/07	14.76		30.03
	7/18/07	15.53		29.26
	10/30/07	16.00		28.79
	1/28/08	14.09		30.70
	3/14/08	14.12		30.67
	5/13/08	14.89		29.90
	7/16/08	15.51		29.28
	9/5/08	16.08		29.09
	10/8/08	16.34		28.83
	1/29/09	15.98		29.19
	4/14/09	14.62		30.55
	7/1/09	15.60		29.57
10/6/09	16.70	28.47		
2/17/10	14.03	31.14		
4/13/10	9.57	35.60		
7/6/10	14.50	30.29		
10/27/10	15.78	29.39		
1/25/11	14.19	30.98		
MW-7	2/18/92	15.51	41.54	26.03
	5/14/92	15.41		26.13
	8/27/92	17.45		24.09
	11/19/92	18.54		23.00
	2/3/93	14.10		27.44
	6/23/93	14.33		27.21
	9/22/93	15.92		25.62

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	1/24/94	16.07	41.54	25.47
	4/7/94	15.10		26.44
	6/7/94	15.16		26.38
	9/28/94	16.82		24.72
	12/14/94	15.75		25.79
	3/15/95	14.00		27.54
	6/13/95	13.44		28.10
	9/28/95	14.84		26.70
	12/28/95	14.55		26.99
	3/12/96	11.88		29.66
	6/11/96	13.52		28.02
	10/2/96	14.50		27.04
	1/28/97	11.08		30.46
	5/20/97	13.46		28.08
	8/18/97	14.95		26.59
	9/29/97	NM		--
	11/5/97	15.43		26.11
	3/31/98	10.25		31.29
	5/26/98	11.45		30.09
	5/28/98	NM		--
	8/19/98	13.08		28.46
	11/17/98	13.93		27.61
	2/18/99	12.16		29.38
	6/24/99	13.35		28.19
	8/30/99	14.23		27.31
	11/9/99	14.60		26.94
	3/22/00	11.91		29.63
	6/12/00	13.28		28.26
	11/15/00	15.12		26.42
	2/26/01	13.46		28.08
5/21/01	14.31	27.23		
9/5/01	15.42	26.12		
11/7/01	16.18	25.36		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	2/11/02	13.76	43.85	30.09
	6/3/02	14.33		29.52
	8/6/02	15.04		28.81
	11/14/02	15.05		28.80
	2/20/03	14.01		29.84
	5/15/03	13.81		30.04
	7/31/03	14.99		28.86
	10/28/03	15.48		28.37
	2/28/04	12.87		30.98
	4/16/04	13.54		30.31
	7/16/04	13.96		29.89
	11/13/04	14.13		29.72
	2/4/05	13.22		30.63
	4/13/05	12.15		31.70
	8/10/05	13.69		30.16
	11/5/05	14.25		29.60
	1/30/06	12.59		31.26
	4/28/06	11.50		32.35
	8/15/06	13.51		30.34
	10/26/06	14.48		29.37
	2/2/07	14.62		29.23
	4/30/07	14.26		29.59
	7/18/07	14.92		28.93
	10/30/07	15.40	28.45	
	1/28/08	13.47	30.38	
	3/14/08	13.65	30.20	
	5/13/08	14.31	29.54	
7/16/08	14.91	28.94		
9/5/08	15.47	44.24	28.77	
10/8/08	15.83		28.41	
1/29/09	15.46		28.78	
4/14/09	14.16		30.08	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	7/1/09	15.06	44.24	29.18
	10/6/09	16.07		28.17
	2/17/10	13.60		30.64
	4/13/10	17.70		26.54
	7/6/10	14.00		30.24
	10/27/10	15.21		29.03
	1/25/11	13.81		30.43
MW-8	2/18/92	16.57	42.26	25.69
	5/14/92	16.24		26.02
	8/27/92	18.28		23.98
	11/19/92	19.32		22.94
	2/3/93	14.87		27.39
	6/23/93	15.18		27.08
	9/22/93	18.79		23.47
	1/24/94	17.06		25.20
	4/7/94	15.95		26.31
	6/7/94	15.10		27.16
	9/28/94	17.63		24.63
	12/14/94	16.66		25.60
	3/15/95	14.30		27.96
	6/13/95	14.37		27.89
	9/28/95	15.62		26.64
	12/28/95	15.62		26.64
	3/12/96	12.75		29.51
	6/11/96	13.94		28.32
	10/2/96	15.41		26.85
	1/28/97	12.30		29.96
5/20/97	14.42	27.84		
8/18/97	16.16	26.10		
9/29/97	NM	--		
11/5/97	16.25	26.01		
3/31/98	11.49	30.77		
5/26/98	12.60	29.66		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)	
MW-8 (cont.)	5/28/98	NM	42.26	--	
	8/19/98	14.15		28.11	
	11/17/98	14.98		27.28	
	2/18/99	13.41		28.85	
	6/24/99	14.35		27.91	
	8/30/99	15.16		27.10	
	11/9/99	15.61		26.65	
	3/22/00	13.17		29.09	
	6/12/00	14.19		28.07	
	11/15/00	16.04		26.22	
	2/26/01	12.99		29.27	
	5/21/01	13.86		28.40	
	9/5/01	14.91		27.35	
	11/7/01	15.62		26.64	
	2/11/02	13.55		44.58	31.03
	6/3/02	13.96			30.62
	8/6/02	15.82			28.76
	11/14/02	15.86	28.72		
	2/20/03	14.70	29.88		
	5/15/03	14.50	30.08		
	7/31/03	15.73	28.85		
	10/28/03	16.14	28.44		
	2/28/04	14.02	30.56		
	4/16/04	14.52	30.06		
	7/16/04	14.88	29.70		
	11/13/04	15.12	29.46		
	2/4/05	14.17	30.41		
	4/13/05	13.16	31.42		
	8/10/05	14.41	30.17		
	11/5/05	14.87	29.71		
	1/30/06	13.65	30.93		
	4/28/06	12.63	31.95		
8/15/06	14.42	30.16			

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-8 (cont.)	10/26/06	15.32	44.58	29.26
	2/2/07	15.52		29.06
	4/30/07	15.15		29.43
	7/18/07	15.80		28.78
	10/30/07	16.23		28.35
	1/28/08	14.81		29.77
	3/14/08	14.67		29.91
	5/13/08	15.30		29.28
	7/16/08	15.82		28.76
	9/5/08	16.35		44.95
	10/8/08	16.70	28.25	
	1/29/09	16.40	28.55	
	4/14/09	15.15	29.80	
	7/1/09	15.92	29.03	
	10/6/09	16.87	28.08	
	2/17/10	14.62	30.33	
	4/13/10	13.87	31.08	
	7/6/10	15.00	29.95	
	10/27/10	16.20	28.75	
	1/25/11	15.15	29.80	
MW-9	2/18/92	18.87	44.94	26.07
	5/14/92	18.55		26.39
	8/27/92	20.80		24.14
	11/19/92	21.90		23.04
	2/3/93	17.25		27.69
	6/23/93	17.61		27.33
	9/22/93	19.18		25.76
	1/24/94	19.17		25.77
	4/7/94	18.23		26.71
	6/7/94	18.40		26.54
	9/28/94	20.01		24.93
	12/14/94	18.88		26.06
	3/15/95	16.24		28.70

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-9 (cont.)	6/13/95	16.75	44.94	28.19
	9/28/95	18.04		26.90
	12/28/95	17.87		27.07
	3/12/96	NM		--
	6/11/96	16.26		28.68
	10/2/96	17.74		27.20
	1/28/97	14.51		30.43
	5/20/97	16.73		28.21
	8/18/97	NM		--
	9/29/97	NM		--
	11/5/97	18.61		26.33
	3/31/98	NM		--
	5/26/98	15.28		29.66
	5/28/98	NM		--
	8/19/98	16.55		28.39
	11/17/98	17.32		27.62
	2/18/99	15.74		29.20
	6/24/99	16.73		28.21
	8/30/99	17.48		27.46
	11/9/99	17.98		26.96
	3/22/00	15.46		29.48
	6/12/00	16.70		28.24
	11/15/00	18.65		26.29
	2/26/01	14.80		30.14
	5/21/01	15.68		29.26
	9/5/01	16.70		28.24
	11/7/01	17.23		27.71
	2/11/02	17.16	47.26	30.10
	6/3/02	17.66		29.60
	8/6/02	18.26		29.00
11/14/02	18.33	28.93		
2/20/03	16.85	30.41		
5/15/03	16.63	30.63		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-9 (cont.)	7/31/03	17.58	47.26	29.68
	10/28/03	17.93		29.33
	2/28/04	16.22		31.04
	4/16/04	16.82		30.44
	7/16/04	17.33		29.93
	11/13/04	17.42		29.84
	2/4/05	16.68		30.58
	4/13/05	15.78		31.48
	8/10/05	17.11		30.15
	11/5/05	17.59		29.67
	1/30/06	16.06		31.20
	4/28/06	12.50		34.76
	8/15/06	16.87		30.39
	10/26/06	17.87		29.39
	2/2/07	17.88		29.38
	4/30/07	17.48		29.78
	7/18/07	18.15		29.11
	10/30/07	18.55		28.71
	1/28/08	16.98	30.28	
	3/14/08	16.89	30.37	
	5/13/08	17.48	29.78	
	7/16/08	17.95	29.31	
	9/5/08	18.61	47.65	29.04
	10/8/08	18.89		28.76
	1/29/09	18.58		29.07
	4/14/09	17.34		30.31
	7/1/09	18.22		29.43
	10/6/09	19.30		28.35
	2/17/10	16.89		30.76
	4/13/10	16.20		31.45
7/6/10	17.20	30.45		
10/27/10	18.40	29.25		
1/25/11	17.00	30.65		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10	2/18/92	16.63	42.34	25.71
	5/14/92	15.25		27.09
	5/15/92	NM		--
	8/27/92	18.35		23.99
	8/29/92	NM		--
	11/19/92	19.43		22.91
	2/3/93	15.01		27.33
	6/23/93	15.30		27.04
	9/22/93	16.90		25.44
	1/24/94	NM		--
	4/7/94	15.97		26.37
	6/7/94	16.04		26.30
	9/28/94	17.69		24.65
	12/14/94	16.65		25.69
	3/15/95	14.08		28.26
	6/13/95	14.49		27.85
	9/28/95	15.81		26.53
	12/28/95	15.46		26.88
	3/12/96	12.62		29.72
	6/11/96	14.40		27.94
	10/2/96	15.47		26.87
	1/28/97	15.69		26.65
	5/20/97	14.48		27.86
	8/18/97	15.91		26.43
	9/29/97	NM		--
	11/5/97	16.32		26.02
	3/31/98	12.25		30.09
	5/26/98	12.97		29.37
5/28/98	NM	--		
8/19/98	14.27	28.07		
11/17/98	15.08	27.26		
2/18/99	13.61	28.73		
6/24/99	14.50	27.84		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10 (cont.)	8/30/99	15.26	42.34	27.08
	11/9/99	15.72		26.62
	3/22/00	13.40		28.94
	6/12/00	14.42		27.92
	11/15/00	16.75		25.59
	2/26/01	14.73		27.61
	5/21/01	15.25		27.09
	9/5/01	16.35		25.99
	11/7/01	17.05		25.29
	2/11/02	14.94		44.65
	6/3/02	15.41	29.24	
	8/6/02	15.98	28.67	
	11/14/02	16.10	28.55	
	2/20/03	14.90	29.75	
	5/15/03	14.69	29.96	
	7/31/03	15.63	29.02	
	10/28/03	16.39	28.26	
	2/28/04	14.01	30.64	
	4/16/04	14.69	29.96	
	7/16/04	15.09	29.56	
	11/13/04	15.24	29.41	
	2/4/05	14.43	30.22	
	4/13/05	13.61	31.04	
	8/10/05	14.82	29.83	
	11/5/05	15.20	29.45	
	1/30/06	13.97	30.68	
	4/28/06	13.22	31.43	
	8/15/06	14.63	30.02	
	10/26/06	15.49	29.16	
	2/2/07	15.60	29.05	
	4/30/07	15.30	29.35	
	7/18/07	15.91	28.74	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10 (cont.)	10/30/07	16.32	44.65	28.33
	1/28/08	14.93		29.72
	3/14/08	14.74		29.91
	5/13/08	15.31		29.34
	7/16/08	15.75		28.90
	9/5/08	16.40		45.04
	10/8/08	16.62	28.42	
	1/29/09	16.42	28.62	
	4/14/09	15.24	29.80	
	7/1/09	16.00	29.04	
	10/6/09	16.98	28.06	
	2/17/10	14.72	30.32	
	4/13/10	14.08	30.96	
	7/6/10	15.05	29.99	
	10/27/10	16.20	28.84	
1/25/11	14.90	30.14		
MW-11	2/18/92	17.00	45.00	28.00
	5/14/92	19.02		25.98
	8/27/92	21.13		23.87
	11/19/92	17.91		27.09
	2/3/93	17.91		27.09
	6/23/93	18.14		26.86
	9/22/93	19.63		25.37
	1/24/94	19.79		25.21
	4/7/94	18.78		26.22
	6/7/94	18.88		26.12
	9/28/94	20.45		24.55
	12/14/94	19.45		25.55
	3/15/95	17.32		27.68
	6/13/95	17.43		27.57
	9/28/95	18.67		26.33
12/28/95	18.31	26.69		
3/12/96	15.89	29.11		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-11 (cont.)	6/11/96	16.98	45.00	28.02
	10/2/96	18.20		26.80
	1/28/97	12.53		32.47
	5/20/97	17.36		27.64
	8/18/97	18.84		26.16
	9/29/97	NM		--
	11/5/97	NM		--
	3/31/98	15.39		29.61
	5/26/98	16.25		28.75
	5/28/98	NM		--
	8/19/98	17.30		27.70
	11/17/98	18.05		26.95
	2/18/99	16.87		28.13
	6/24/99	17.50		27.50
	8/30/99	18.19		26.81
	11/9/99	18.64		26.36
	3/22/00	16.52		28.48
	6/12/00	17.44		27.56
	11/15/00	19.07		25.93
	2/26/01	17.80		27.20
	5/21/01	18.23	26.77	
	9/5/01	19.21	25.79	
	11/7/01	19.80	25.20	
	2/11/02	17.40	47.36	29.96
	6/3/02	18.30		29.06
	8/6/02	18.80		28.56
	11/14/02	18.94		28.42
	2/20/03	17.46		29.90
	5/15/03	17.64		29.72
	7/31/03	18.81		28.55
	10/28/03	19.20		28.16
	2/28/04	17.33		30.03
4/16/04	17.67	29.69		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-11 (cont.)	7/16/04	18.01	47.36	29.35
	11/13/04	18.19		29.17
	2/4/05	17.47		29.89
	4/13/05	16.81		30.55
	8/10/05	17.74		29.62
	11/5/05	18.14		29.22
	1/30/06	17.11		30.25
	4/28/06	16.49		30.87
	8/15/06	17.61		29.75
	10/26/06	18.32		29.04
	2/2/07	18.50		28.86
	4/30/07	18.17		29.19
	7/18/07	18.71		28.65
	10/30/07	19.11		28.25
	1/28/08	17.87	29.49	
	3/14/08	17.76	29.60	
	5/13/08	18.23	29.13	
	7/16/08	18.67	28.69	
	9/5/08	19.21	47.69	28.48
	10/8/08	19.52		28.17
	1/29/09	19.28		28.41
	4/14/09	18.21		29.48
	7/1/09	18.90		28.79
10/6/09	19.80	27.89		
2/17/10	17.74	29.95		
4/13/10	17.24	30.45		
7/6/10	18.05	29.64		
10/27/10	19.10	28.59		
1/25/11	17.92	29.77		
MW-12	7/18/07	18.00	46.88	28.88
	10/30/07	18.42		28.46
	1/28/08	16.96		29.92
	3/14/08	16.83		30.05

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-12 (cont.)	5/13/08	17.35	46.88	29.53
	7/16/08	17.70		29.18
	9/5/08	18.51	47.27	28.76
	10/8/08	18.75		28.52
	1/29/09	18.49		28.78
	4/14/09	17.34		29.93
	7/1/09	18.13		29.14
	10/6/09	19.03		28.24
	2/17/10	16.90		30.37
	4/13/10	16.28		30.99
	7/6/10	17.19		30.08
	10/27/10	18.30		28.97
	1/25/11	17.05		30.22
RW-1	5/14/92	16.88	43.17	26.29
	5/15/92	NM		--
	8/27/92	19.05		24.12
	11/19/92	21.11		22.06
	2/3/93	15.48		27.69
	6/23/93	28.25		14.92
	9/22/93	17.83		25.34
	1/24/94	24.00		19.17
	4/7/94	16.05		27.12
	6/7/94	16.00		27.17
	9/28/94	18.35		24.82
	12/14/94	19.50		23.67
	3/15/95	17.00		26.17
	4/10/95	NM		--
	6/13/95	14.95		28.22
	9/28/95	27.63		15.54
	12/28/95	14.54		28.63
3/12/96	11.02	32.15		
6/11/96	14.52	28.65		
10/2/96	15.53	27.64		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
RW-1 (cont.)	1/28/97	12.59	43.17	30.58
	5/20/97	14.85		28.32
	8/18/97	16.19		26.98
	9/29/97	NM		--
	11/5/97	16.95		26.22
	3/31/98	11.85		31.32
	5/26/98	13.13		30.04
	5/28/98	NM		--
	8/19/98	14.70		28.47
	11/17/98	15.54		27.63
	2/18/99	13.75		29.42
	6/24/99	14.96		28.21
	8/30/99	15.75		27.42
	11/9/99	17.45		25.72
	3/22/00	13.51		29.66
	6/12/00	13.65		29.52
	11/15/00	29.45		13.72
	2/26/01	28.40		14.77
	5/21/01	15.36		27.81
	9/5/01	26.90	16.27	
	11/7/01	28.41	14.76	
	2/11/02	27.61	45.47	17.86
	6/3/02	26.90		18.57
	8/6/02	25.56		19.91
	11/14/02	24.83		20.64
	2/20/03	23.56		21.91
	5/15/03	22.80		22.67
	7/31/03	21.71		23.76
	10/28/03	22.07		23.40
	2/28/04	19.32		26.15
	4/16/04	23.95		21.52
	7/16/04	30.04		15.43
11/13/04	15.63	29.84		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
RW-1 (cont.)	2/4/05	18.57	45.47	26.90
	4/13/05	24.21		21.26
	8/10/05	33.59		11.88
	11/5/05	25.63		19.84
	1/30/06	24.39		21.08
	4/28/06	16.32		29.15
	8/15/06	34.04		11.43
	10/26/06	25.48		19.99
	2/2/07	16.62		28.85
	4/30/07	NM		--
	7/18/07	30.72		14.75
	10/30/07	31.15		14.32
	1/28/08	26.79		18.68
	3/14/08	15.14	30.33	
	5/13/08	15.79	29.68	
	7/16/08	16.32	29.15	
	9/5/08	16.93	45.86	28.93
	10/8/08	17.21		28.65
	1/29/09	16.87		28.99
	4/14/09	15.63		30.23
	7/1/09	16.53		29.33
	10/6/09	17.48		28.38
	2/17/10	15.08		30.78
4/13/10	14.30	31.56		
7/6/10	15.48	30.38		
10/27/10	16.70	29.16		
1/25/11	15.25	30.61		
RW-2	11/13/04	16.17	45.00	28.83
	2/4/05	15.44		29.56
	4/13/05	14.54		30.46
	8/10/05	15.93		29.07
	11/5/05	16.36		28.64
	1/30/06	14.83		30.17

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
RW-2 (cont.)	4/28/06	13.93	45.00	31.07
	8/15/06	15.67		29.33
	10/26/06	23.50		21.50
	2/2/07	14.27		30.73
	4/30/07	18.35		26.65
	7/18/07	17.95		27.05
	10/30/07	17.63		27.37
	1/28/08	15.91		29.09
	3/14/08	15.69		29.31
	5/13/08	16.32		28.68
	7/16/08	16.81		28.19
	9/5/08	17.39		46.40
	10/8/08	17.63	28.77	
	1/29/09	17.35	29.05	
	4/14/09	16.20	30.20	
	7/1/09	17.00	29.40	
	10/6/09	18.00	28.40	
	2/17/10	15.64	30.76	
	4/13/10	14.90	31.50	
	7/6/10	15.95	30.45	
10/27/10	17.17	29.23		
1/25/11	15.74	30.66		
OS-1	9/5/08	18.14	47.19	29.05
	10/8/08	18.41		28.78
	1/29/09	18.10		29.09
	4/14/09	16.86		30.33
	7/1/09	17.78		29.41
	10/6/09	18.78		28.41
	10/6/09	18.78		28.41
	2/17/10	16.37		30.82
	1/25/11	16.53		30.66
OS-2	9/5/08	17.75	46.79	29.04
	10/8/08	NM		--

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
OS-2 (cont.)	1/29/09	17.74	46.79	29.05
	4/14/09	16.50		30.29
	7/1/09	17.38		29.41
	10/6/09	18.42		28.37
	10/6/09	18.42		28.37
	2/17/10	16.00		30.79
	1/25/11	16.15		30.64
OS-3	9/5/08	16.68	45.68	29.00
	10/8/08	16.95		28.73
	1/29/09	16.60		29.08
	4/14/09	15.33		30.35
	7/1/09	16.26		29.42
	10/6/09	17.30		28.38
	10/6/09	17.30		28.38
	2/17/10	14.80		30.88
	1/25/11	14.94		30.74
OS-4	9/5/08	17.00	46.02	29.02
	10/8/08	17.26		28.76
	1/29/09	16.97		29.05
	4/14/09	15.70		30.32
	7/1/09	16.61		29.41
	10/6/09	17.63		28.39
	10/6/09	17.63		28.39
	2/17/10	15.16		30.86
	1/25/11	15.34		30.68
PT-1	9/5/08	17.50	46.48	28.98
	10/8/08	17.77		28.71
	1/29/09	17.47		29.01
	4/14/09	16.21		30.27
	7/1/09	17.10		29.38
	10/6/09	18.10		28.38
	10/6/09	18.10		28.38
	2/17/10	15.66		30.82

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
PT-1	7/6/10	16.10	46.48	30.38
(cont.)	10/27/10	17.27		29.21
	1/25/11	15.85		30.63

- (a) Elevation of PVC well casing relative to mean sea level (MSL), provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report.
Wells were surveyed by Cross Land Surveying, Inc., per AB 2886 requirements on 26 September 2008.
- (b) Difference between "PVC Casing Elevation" and "Depth to Water."
- (c) NM = Well not measured.
- (d) "--" Not calculated.
- (e) Field logs noted well was plugged at 14 feet below top of casing on 20 May 1997.

ATTACHMENT D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1	5/15/92	41,000	2,000	47	1,200	400	-- ^(e)	--	--	--	--
	8/28/92	110,000	3,800	54	850	970	--	--	--	--	--
	11/19/92	3,600	200	ND<0.5 ^(f)	90	140	--	--	--	--	--
	2/3/93	3,000	180	22	79	130	--	--	--	--	--
	6/23/93	12,000	2,400	74	650	510	--	--	--	--	--
	9/22/93	23,000	3,000	290	1,100	1,200	--	--	--	--	--
	1/24/94	18,000	2,400	280	1,100	1,700	--	--	--	--	--
	4/7/94	20,000	4,200	820	1,600	2,100	--	--	--	--	--
	6/7/94	26,000	1,800	510	1,100	1,600	--	--	--	--	--
	9/28/94	18,000	1,700	210	970	870	--	--	--	--	--
	12/14/94	31,000	4,400	2,400	2,300	4,300	--	--	--	--	--
	3/15/95	17,000	830	310	840	1,200	--	--	--	--	--
	6/13/95	22,000	1,300	99	1,500	1,100	--	--	--	--	--
	9/28/95	8,800	580	ND<25	780	410	--	--	--	--	--
	12/28/95	4,800	4.9	ND<1.3	ND<1.3	290	74	--	--	--	--
	1/30/96	1,500	17	7.1	20	45	63	--	--	--	--
	3/12/96	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44	--	--	--	--
	9/11/96	600	48	0.90	37	26	75	--	--	--	--
	10/2/96	210	16	ND<0.5	6.0	0.92	11	--	--	--	--
	1/28/97	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	--	--	--	--
	5/20/97	680	ND<2.5	ND<2.5	ND<2.5	ND<2.5	640	--	--	--	--
	8/18/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	540	--	--	--	--
	11/5/97	ND<250	2.8	ND<2.5	ND<2.5	ND<2.5	390	--	--	--	--
	3/31/98	3,300	260	13	110	150	7,900	--	--	--	--
	5/28/98	7,800	120	ND<10	39	55	9,300	--	--	--	--
	8/19/98	ND<250	12	ND<2.5	6.0	3.8	2,200	--	--	--	--
	11/17/98	860	8.3	ND<2.5	9.2	7.6	4,200	--	--	--	--
2/18/99	310	2.7	ND<2.5	ND<2.5	3.9	4,200	--	--	--	--	
6/24/99	860	10	ND<2.5	12	6.5	3,400	--	--	--	--	
8/30/99	140	2.0	ND<0.5	3.9	2.0	2,800	--	--	--	--	
11/9/99	170	ND<0.5	ND<0.5	3.1	2.0	1,500	--	--	--	--	
3/22/00	ND<200	2.8	ND<2	3.6	ND<2	1,200	--	--	--	--	
6/12/00	190	1.3	ND<1	ND<1	ND<1	640	--	--	--	--	
11/15/00	240	ND<1	ND<1	ND<1	ND<1	960	--	--	--	--	
2/26/01	ND<100	1.2	ND<1	ND<1	ND<1	2,800	--	--	--	--	
5/21/01	ND<200	ND<2	ND<2	ND<2	ND<2	540	--	--	--	--	
9/5/01	ND<200	7.0	ND<2	ND<2	ND<2	550	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1 (cont.)	11/7/01	290	ND<2	ND<2	ND<2	ND<2	750	--	--	--	--
	2/11/02	270	ND<1	ND<1	ND<1	ND<1	450	--	--	--	--
	6/3/02	310	ND<2	ND<2	ND<2	ND<2	610	--	--	--	--
	8/6/02	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	540	--	--	--	--
	11/14/02	490	ND<2	ND<2	ND<2	ND<2	900	--	--	--	--
	2/20/03	210	ND<1	ND<1	ND<1	ND<1	320	--	--	--	--
	5/15/03	400	ND<1.5	ND<1.5	ND<1.5	ND<1.5	670	ND<1.5	ND<1.5	ND<1.5	ND<15
	7/31/03	380	ND<1.5	ND<1.5	ND<1.5	ND<1.5	620	ND<1.5	ND<1.5	ND<1.5	ND<15
	10/28/03	230	ND<1	ND<1	ND<1	ND<1	470	ND<1	ND<1	ND<1	ND<10
	2/28/04	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	400	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<200	ND<1.5	ND<1.5	ND<1.5	ND<1.5	510	ND<1.5	ND<1.5	ND<1.5	ND<15
	7/16/04	280	ND<1.5	ND<1.5	ND<1.5	ND<1.5	660	ND<1.5	ND<1.5	ND<1.5	ND<15
	11/13/04	ND<100	ND<1	ND<1	ND<1	ND<1	530	ND<1	ND<1	ND<1	19
	2/4/05	140	ND<1	ND<1	ND<1	ND<1	610	ND<1	ND<1	ND<1	18
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	12
	8/10/05	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<0.5	ND<0.5	ND<0.5	17
	11/5/05	220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	95	ND<0.5	ND<0.5	ND<0.5	24
	1/30/06	92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND<0.5	ND<0.5	ND<0.5	20
	4/28/06	57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	13
	8/15/06	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	ND<0.5	ND<0.5	ND<0.5	10
10/26/06	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	ND<0.5	ND<0.5	ND<0.5	6.2	
2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	ND<0.5	6.7	
4/30/07	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	
7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.94	ND<0.5	ND<0.5	68	5.5	
10/30/07	77 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	56 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.7	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/29/09	98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/29/09	250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/1/09	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	24	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/17/10	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.9	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/6/10	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	ND<0.5	ND<0.5	ND<5	
DUP											

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1 (cont.)	10/27/10	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.8	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-2	2/18/92	1,600	ND<0.5	ND<0.5	1.9	ND<0.5	--	--	--	--	--
	5/14/92	740	1.2	1.0	1.3	ND<0.5	--	--	--	--	--
	8/27/92	1,400	6.5	1.1	0.60	ND<0.5	--	--	--	--	--
	11/19/92	360	ND<0.5	ND<0.5	2.7	ND<0.5	--	--	--	--	--
	2/3/93	590	1.2	1.6	4.5	6.4	--	--	--	--	--
	6/23/93	160	ND<0.5	ND<0.5	0.52	0.50	--	--	--	--	--
	9/22/93	290	ND<0.5	0.59	1.2	0.59	--	--	--	--	--
	1/24/94	330	ND<0.5	ND<0.5	0.68	ND<0.5	--	--	--	--	--
	4/7/94	490	ND<0.5	ND<0.5	ND<0.5	4.4	--	--	--	--	--
	6/7/94	550	ND<0.5	ND<0.5	1.5	ND<0.5	--	--	--	--	--
	9/28/94	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	1,400	7.2	0.84	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	730	39	ND<0.5	0.53	ND<0.5	--	--	--	--	--
	6/13/95	750 ^(g)	8.3	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	670 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	3,100	9.5	ND<5	ND<5	5.2	4,600	--	--	--	--
	3/12/96	710	ND<1.3	ND<1.3	ND<1.3	ND<1.3	3,200	--	--	--	--
	6/13/96	1,900 ^(g)	1.6	1.6	ND<1.3	ND<1.3	5,100	--	--	--	--
	10/2/96	2,800	ND<2.5	ND<2.5	ND<2.5	ND<2.5	7,900	--	--	--	--
	1/28/97	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	--	--	--	--
	5/20/97	1,400	120	16	ND<2.5	4.0	390	--	--	--	--
	8/18/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,000	--	--	--	--
	11/5/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,900	--	--	--	--
	3/31/98	ND<10,000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	85,000	--	--	--	--
	5/28/98	ND<50,000	ND<500	ND<500	ND<500	ND<500	97,000	--	--	--	--
	8/19/98	210	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22,000	--	--	--	--
11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17,000	--	--	--	--	
2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13,000	--	--	--	--	
6/24/99	180	ND<15	ND<15	ND<15	ND<15	39,000	--	--	--	--	
8/30/99	ND<2,500	ND<25	ND<25	ND<25	ND<25	18,000	--	--	--	--	
11/9/99	ND<500	ND<5	ND<5	ND<5	ND<5	14,000	--	--	--	--	
3/22/00	ND<500	ND<5	ND<5	ND<5	ND<5	54,000	--	--	--	--	
6/12/00	ND<2,000	ND<20	ND<20	ND<20	ND<20	53,000	--	--	--	--	
11/15/00	ND<5,000	ND<50	ND<50	ND<50	ND<50	35,000	--	--	--	--	
2/26/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	2800	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-2 (cont.)	5/21/01	ND<5,000	ND<25	ND<25	ND<25	ND<25	20,000	--	--	--	--
	9/5/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	12,000	--	--	--	--
	11/7/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	7,600	--	--	--	--
	2/11/02	ND<500	ND<5	ND<5	ND<5	ND<5	1500	--	--	--	--
	6/3/02	ND<500	ND<5	ND<5	ND<5	ND<5	2,200	--	--	--	--
	8/6/02	ND<500	ND<5	ND<5	ND<5	ND<5	3,300	--	--	--	--
	11/14/02	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,200	--	--	--	--
	2/20/03	ND<50	ND<2	ND<2	ND<2	ND<2	160	--	--	--	--
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	270	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	300	ND<2	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	1,600	ND<1	ND<0.5	1.8	20
	2/28/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	340	ND<1.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	ND<1.5	ND<0.5	ND<0.5	35
	7/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	68	ND<1	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	35	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	ND<0.5	ND<5
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.86	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/17/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.58	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/13/10	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

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-2 (cont.)	7/6/10	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
	10/27/10	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
	1/25/11	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-3	5/15/92	160,000	6,300	5,900	1,700	6,100	--	--	--	--	--
	8/28/92	1,300,000	2,500	40,000	6,700	44,000	--	--	--	--	--
	2/3/93	82,000	7,200	11,000	2,900	13,000	--	--	--	--	--
	6/23/93	61,000	3,200	5,300	2,500	9,100	--	--	--	--	--
	9/22/93	94,000	12,000	14,000	3,900	18,000	--	--	--	--	--
	1/24/94	110,000	14,000	17,000	4,200	14,000	--	--	--	--	--
	4/7/94	28,000	6,500	1,800	1,700	4,100	--	--	--	--	--
	6/7/94	27,000	6,400	2,300	1,500	3,500	--	--	--	--	--
	9/28/94	40,000	7,400	4,300	1,500	4,600	--	--	--	--	--
	12/14/94	140,000	17,000	21,000	3,900	22,000	--	--	--	--	--
	3/15/95	58,000	4,900	1,900	1,800	7,100	--	--	--	--	--
	6/13/95	44,000	7,200	2,900	1,200	4,600	--	--	--	--	--
	9/28/95	30,000	5,600	2,100	1,900	6,900	--	--	--	--	--
	12/28/95	16,000	32	5.8	18	4,700	360	--	--	--	--
	1/30/96	8,700	850	800	190	1,700	430	--	--	--	--
	3/12/96	2,400	48	64	5.3	630	97	--	--	--	--
	7/10/97	300	ND<0.5	ND<0.5	ND<0.5	4.8	40	--	--	--	--
	8/18/97	3,600	480	8.4	100	230	170	--	--	--	--
	9/29/97	3,500	740	8.6	160	240	210	--	--	--	--
	11/5/97	4,100	870	15	180	210	240	--	--	--	--
	3/31/98	12,000	1,800	600	410	1,400	510	--	--	--	--
	5/28/98	6,500	1,500	400	280	870	480	--	--	--	--
	8/19/98	1,400	130	11	24	60	140	--	--	--	--
11/17/98	510	48	3.5	9.9	14	120	--	--	--	--	
2/18/99	690	67	28	24	81	88	--	--	--	--	
6/24/99	540	27	21	8.6	32	61	--	--	--	--	
8/30/99	250	12	12	3.2	13	50	--	--	--	--	
11/9/99	230	9.8	5.3	3.4	10	48	--	--	--	--	
3/22/00	1,500	180	47	46	100	80	--	--	--	--	
6/12/00	920	100	6.2	20	25	76	--	--	--	--	
11/15/00	1,100	280	5.0	21	20	140	--	--	--	--	
2/26/01	140	14	4.3	3.1	11	230	--	--	--	190	
5/21/01	510	36	0.72	1.0	2.2	280	--	--	--	110	
9/5/01	390	59	0.53	0.75	0.57	620	--	--	--	120	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-3 (cont.)	11/7/01	830	170	2.3	4.9	4.8	900	--	--	--	--
	2/11/02	370	17	ND<2.5	4.7	7.9	1,200	--	--	--	--
	6/3/02	460	120	ND<2.5	5.6	8.4	1,400	--	--	--	140
	8/6/02	800	110	ND<5	ND<5	ND<5	2,200	--	--	--	170
	11/14/02	1,400	89	ND<10	ND<10	ND<10	2,800	--	--	--	210
	2/20/03	ND<500	14	ND<5	ND<5	ND<5	2,300	--	--	--	97
	5/15/03	ND<500	43	ND<5	ND<5	ND<5	2,000	ND<5	ND<5	ND<5	87
	7/31/03	1,500	280	ND<5	6.6	7.4	1,600	ND<5	ND<5	ND<5	130
	10/28/03	2,200	140	1.6	6.5	4.0	1,100	ND<0.5	ND<0.5	0.75	74
	2/28/04	1,200	99	31	12	52	1,500	ND<0.5	ND<0.5	ND<0.5	82
4/16/04	1,200	95	19	12	48	1,100	ND<0.5	ND<0.5	ND<0.5	340	
7/16/04	980	94	27	9.4	38	810	ND<0.5	ND<0.5	ND<0.5	580	
MW-3R	11/13/04	9,000	580	52	440	1,600	450	ND<0.5	ND<0.5	ND<0.5	440
	2/4/05	5,400	350	29	260	1,100	270	ND<0.5	ND<0.5	ND<0.5	390
	4/13/05	20,000	1,300	84	1,200	3,200	290	ND<0.5	ND<0.5	ND<0.5	150
	8/10/05	7,100	400	23	340	1,200	110	ND<0.5	ND<0.5	ND<0.5	160
	11/5/05	4,100	230	10	250	600	81	ND<0.5	ND<0.5	ND<0.5	200
	1/30/06	6,100	460	20	470	1,000	85	ND<0.5	ND<0.5	ND<0.5	190
	4/28/06	8,200	510	15	490	940	81	ND<0.5	ND<0.5	ND<0.5	90
	8/15/06	5,600	470	11	500	680	80	ND<0.5	ND<0.5	ND<0.5	92
	10/26/06	1,800	82	4.2	38	220	53	ND<0.5	ND<0.5	ND<0.5	45
	2/2/07	1,500	94	4.3	7.0	110	42	ND<0.5	ND<0.5	ND<0.5	26
	4/30/07	3,700	240	17	280	300	38	ND<0.5	ND<0.5	ND<0.5	22
	7/18/07	690	85	1.5	3.6	20	29	ND<0.5	ND<0.5	ND<0.5	17
	10/30/07	410	46	0.90	4.7	12	19	ND<0.5	ND<0.5	ND<0.5	14
	1/28/08	4,500	350	10	250	220	48	ND<0.5	ND<0.5	ND<0.5	22
	5/13/08	1,300	68	4.4	74	38	18	ND<0.5	ND<0.5	ND<0.5	15
	7/16/08	1,400	71	9.8	38	20	35	ND<0.5	ND<0.5	ND<0.5	33
	10/8/08	980	66	2.5	6.7	ND<0.5	32	ND<0.5	ND<0.5	ND<0.5	22
DUP	1/29/09	58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	8.0
	1/30/09	860	82	1.4	16	4.3	19	ND<0.5	ND<0.5	ND<0.5	21
	4/15/09	120	1.6	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	16
	7/1/09	690	30	1.2	4.4	2.0	19	ND<0.5	ND<0.5	ND<0.5	20
	10/7/09	480	28	0.73	2.3	1.5	20	ND<0.5	ND<0.5	ND<0.5	16
	2/18/10	400	38	0.76	25	6.5	10	ND<0.5	ND<0.5	ND<0.5	18
	4/14/10	840	81	1.4	62	22	16	ND<0.5	ND<0.5	ND<0.5	16
	7/7/10	570	59	0.94	21	5.6	13	ND<0.5	ND<0.5	ND<0.5	16

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-3R (cont.)	10/27/10	420	24	0.56	2.1	0.83	12	ND<0.5	ND<0.5	ND<0.5	14
	1/25/11	1,100	64	1.1	40	9.4	9.8	ND<0.5	ND<0.5	ND<0.5	14
MW-4	2/18/92	5,100	ND<0.5	ND<0.5	12	21	--	--	--	--	--
	5/14/92	4,600	ND<0.5	5.6	1.8	2.2	--	--	--	--	--
	8/28/92	1,700	6.6	1.3	1.6	3.1	--	--	--	--	--
	11/19/92	400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	1,100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	1/24/94	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	430	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	210 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	140 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	510 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	50 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	270 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	3/31/98	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	120 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46	--	--	--	--
11/17/98	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	780	--	--	--	--	
2/18/99	130	8.2	ND<0.5	ND<0.5	ND<0.5	240	--	--	--	--	
6/24/99	ND<50	ND<1	ND<0.5	ND<0.5	ND<0.5	2,100	--	--	--	--	
11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2,500	--	--	--	--	
3/22/00	69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12,000	--	--	--	--	
6/12/00	ND<2,000	ND<20	ND<20	ND<20	ND<20	17,000	--	--	--	--	
11/15/00	ND<100	ND<1	ND<1	ND<1	ND<1	17,000	--	--	--	--	
5/21/01	ND<5,000	ND<25	ND<25	ND<25	ND<25	13,000	--	--	--	--	
11/7/01	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,800	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-4 (cont.)	6/3/02	ND<200	ND<2	ND<2	ND<2	ND<2	1,100	--	--	--	--
	11/14/02	ND<200	ND<2	ND<2	ND<2	ND<2	700	--	--	--	--
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	73	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	65	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.0	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	50	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	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
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	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
	7/18/07	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
	10/30/07	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
	1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	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
	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	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
	1/29/09	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
	4/14/09	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
7/1/09	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	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.56	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/17/10	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	
4/13/10	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	
7/6/10	ND<50	ND<0.5	ND<0.5	ND<0.5	0.62	0.83	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5	ND<5	
1/25/11	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-5	2/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	55	3.0	2.7	8.0	9.9	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	ND<50	0.66	1.1	ND<0.5	0.60	--	--	--	--	--
	1/24/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-5 (cont.)	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	0.52	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.0	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.1	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/8/08	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
1/29/09	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	
10/7/09	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	
4/13/10	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	
10/27/10	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-6	2/18/92	370	4.8	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	66	1.3	ND<0.5	1.0	1.1	--	--	--	--	--
	2/3/93	100	1.9	2.6	23	12	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	81	2.2	3.8	0.53	2.7	--	--	--	--	--
	1/24/94	98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	150	0.71	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
3/15/95	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	

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HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-6 (cont.)	6/13/95	150 ^(g)	ND<0.5	0.87	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	0.78	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	410	ND<0.5	ND<0.5	ND<0.5	ND<0.5	70	--	--	--	--
	1/30/96	81	1.0	ND<0.5	ND<0.5	ND<0.5	46	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	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
	4/15/09	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
7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/14/10	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	
7/7/10	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	
10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/25/11	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	2/18/92	670	16	ND<0.5	10	16	--	--	--	--	--
	5/14/92	1,500	44	ND<0.5	38	88	--	--	--	--	--
	8/27/92	23,000	400	5.8	290	1,400	--	--	--	--	--
	11/19/92	330	29	ND<0.5	10	53	--	--	--	--	--
	2/3/93	2,000	200	ND<0.5	110	480	--	--	--	--	--
	6/23/93	280	20	ND<0.5	16	16	--	--	--	--	--
	9/22/93	860	71	2.2	33	210	--	--	--	--	--
	1/24/94	900	61	ND<1.3	10	160	--	--	--	--	--
	4/7/94	630	53	ND<0.5	7.1	49	--	--	--	--	--
6/7/94	730	55	ND<0.5	14	24	--	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-7 (cont.)	9/28/94	300	21	ND<0.5	2.3	3.1	--	--	--	--	--
	12/14/94	430	19	ND<0.5	3.3	32	--	--	--	--	--
	3/15/95	70	0.88	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	190	7.3	0.79	7.6	8.9	--	--	--	--	--
	9/28/95	60	1.5	ND<0.5	1.2	0.84	--	--	--	--	--
	12/28/95	60	ND<0.5	ND<0.5	0.91	0.69	10	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	--	--	--	--
	6/11/96	79	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	--	--	--	--
	5/20/97	78	ND<0.5	0.85	ND<0.5	ND<0.5	40	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.0	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	6.0	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	--	--	--	--
	2/18/99	51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22	--	--	--	--
	11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	--	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	--	--	--	--
	11/7/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.4	--	--	--	--
	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	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
	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
	1/30/06	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
	2/2/07	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
4/30/07	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	
10/30/07	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	
5/13/08	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	
7/16/08	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	
10/8/08	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	
1/29/09	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	
4/14/09	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	
10/7/09	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	
4/13/10	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	
10/27/10	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

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-8	2/18/92	1,200	ND<0.5	ND<0.5	9.5	ND<0.5	--	--	--	--	--
	5/14/92	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	320	ND<0.5	ND<0.5	2.0	ND<0.5	--	--	--	--	--
	2/3/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	ND<50	ND<0.5	ND<0.5	0.67	ND<0.5	--	--	--	--	--
	1/24/94	290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
4/30/07	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	
7/18/07	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	
5/13/08	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	
7/16/08	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	
10/8/08	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	
1/29/09	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	
4/14/09	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	
10/7/09	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

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
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Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-8 (cont.)	4/13/10	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
	10/27/10	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-9	2/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	--	--	--	--	--
	2/3/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	1/24/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/3/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
8/6/02	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	
4/30/07	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	
7/18/07	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	
5/13/08	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	
7/16/08	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	
10/8/08	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	
1/29/09	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	
4/14/09	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	
7/1/09	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

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-9 (cont.)	10/7/09	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
	2/18/10	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
	4/14/10	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
	10/27/10	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
	1/25/11	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-10	2/18/92	18,000	110	57	440	53	--	--	--	--	--
	5/15/92	8,500	24	9.8	97	ND<0.5	--	--	--	--	--
	8/29/92	9,600	20	2.8	40	3.5	--	--	--	--	--
	11/19/92	5,700	36	21	330	31	--	--	--	--	--
	2/3/93	2,200	15	4.6	36	9.6	--	--	--	--	--
	6/23/93	8,100	21	24	540	45	--	--	--	--	--
	9/22/93	6,200	22	17	350	16	--	--	--	--	--
	4/7/94	4,000	6.4	2.9	150	4.7	--	--	--	--	--
	6/7/94	6,700	5.6	ND<2.5	150	5.7	--	--	--	--	--
	9/28/94	5,700	2.2	2.6	110	44	--	--	--	--	--
	12/14/94	3,500	ND<1.3	ND<1.3	77	27	--	--	--	--	--
	3/15/95	7,200	ND<5	6.7	150	23	--	--	--	--	--
	6/13/95	8,400	9.0	48	610	130	--	--	--	--	--
	9/28/95	6,300	22	17	360	24	--	--	--	--	--
	12/28/95	5,000	4.4	5.6	340	11	37	--	--	--	--
	3/12/96	4,500	1.4	5.9	41	73	120	--	--	--	--
	6/11/96	7,500	ND<5	25	350	81	ND<25	--	--	--	--
	10/2/96	2,600	18	ND<2.5	ND<2.5	ND<2.5	ND<25	--	--	--	--
	1/28/97	2,800	5.9	ND<2.5	29	19	ND<25	--	--	--	--
	5/20/97	6,000	ND<20	34	290	74	ND<100	--	--	--	--
8/18/97	5,900	ND<20	7.7	94	15	ND<50	--	--	--	--	
11/5/97	5,400	1.1	0.86	47	1.6	2.3	--	--	--	--	
3/31/98	20,000	56	180	1,400	3,700	250	--	--	--	--	
5/28/98	16,000	76	200	1,600	3,900	190	--	--	--	--	
8/19/98	14,000	95	160	1,300	1,700	ND<100	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-10 (cont.)	11/17/98	7,500	82	64	590	150	290	--	--	--	--
	2/18/99	4,700	41	16	270	79	ND<100	--	--	--	--
	6/24/99	9,400	27	74	280	160	300	--	--	--	--
	8/30/99	8,500	15	33	160	33	290	--	--	--	--
	11/9/99	7,600	3.9	11	60	14	120	--	--	--	--
	3/22/00	5,800	3.5	33	360	320	160	--	--	--	--
	6/12/00	7,200	4.3	47	370	210	270	--	--	--	--
	11/15/00	4,400	0.54	2.2	3.8	7.3	420	--	--	--	--
	2/26/01	5,000	ND<1	2.5	24	13	860	--	--	--	--
	5/21/01	3,500	ND<0.5	3.2	4.1	12	530	--	--	--	--
	9/5/01	3,400	ND<2	ND<2	ND<2	4.1	770	--	--	--	--
	11/7/01	3,600	ND<0.5	0.64	0.75	2.7	790	--	--	--	--
	2/11/02	4,100	ND<2	2.2	61	26	750	--	--	--	--
	6/3/02	4,100	ND<1	7.0	67	37	320	--	--	--	--
	8/6/02	4,500	ND<1	5.4	18	18	310	--	--	--	--
	11/14/02	5,200	ND<1	ND<1	2.2	6.4	280	ND<0.5	ND<0.5	ND<0.5	13
	2/20/03	6,300	ND<1.5	9.5	280	69	220	ND<2	ND<2	ND<2	--
	5/15/03	5,700	1.2	14	280	78	130	ND<1	ND<1	ND<1	11
	7/31/03	4,700	ND<0.5	4.5	20	17	110	ND<1.5	ND<1.5	ND<1.5	7.5
	10/28/03	1,900	ND<0.5	0.54	0.80	2.9	88	ND<1.5	ND<1.5	ND<1.5	5.9
	2/28/04	3,500	ND<1	ND<1	17	7.9	44	ND<1	ND<1	ND<1	ND<10
	4/16/04	6,000	ND<1.5	3.0	150	34	53	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/04	6,300	ND<1	3.5	110	29	40	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	4,900	ND<0.5	4.8	42	23	25	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	5,000	ND<0.5	3.3	46	30	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	4,000	0.81	6.5	200	120	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	6,600	2.0	6.5	74	72	29	ND<0.5	ND<0.5	ND<0.5	ND<5
11/5/05	6,000	3.0	9.7	17	56	5.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/30/06	3,800	1.8	3.9	61	29	16	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/28/06	5,800	3.1	7.0	210	120	38	ND<0.5	ND<0.5	ND<0.5	8.4	
8/15/06	5,400	1.7	4.2	22	40	42	ND<0.5	ND<0.5	ND<0.5	7.3	
10/26/06	5,000	0.71	2.2	4.8	25	24	ND<0.5	ND<0.5	ND<0.5	5.0	
2/2/07	4,900	0.72	2.3	7.4	15	21	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/30/07	4,300	ND<0.5	2.2	7.6	16	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	2,700	ND<0.5	0.97	ND<0.5	3.4	4.8	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/30/07	3,400	ND<0.5	0.73	ND<0.5	2.1	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	2,600	ND<0.5	0.88	ND<0.5	1.5	0.76	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-10 (cont.) DUP	5/13/08	4,100	ND<0.5	0.66	ND<0.5	3.0	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	2,700	ND<0.5	ND<0.5	ND<0.5	1.4	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	1,900	ND<0.5	ND<0.5	ND<0.5	0.63	0.63	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	1,900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	2,800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.72	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	2,400	ND<0.5	ND<0.5	0.67	1.4	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	2,900	ND<0.5	ND<0.5	ND<0.5	1.4	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	2,800	ND<0.5	ND<0.5	ND<0.5	0.61	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	3,300	ND<0.5	ND<0.5	0.58	0.90	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	4,300	ND<0.5	ND<0.5	24	6.9	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	3,600	ND<0.5	ND<0.5	2.0	9.1	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	2,900	ND<0.5	ND<0.5	ND<0.5	2.0	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	3,500	ND<0.5	ND<0.5	1.6	2.1	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-11	2/18/92	2,400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	1,600	ND<0.5	1.9	1.3	0.70	--	--	--	--	--
	8/27/92	2,100	15	2.0	0.60	1.2	--	--	--	--	--
	11/19/92	490	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	500	ND<0.5	ND<0.5	0.55	ND<0.5	--	--	--	--	--
	6/23/93	350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	200	ND<0.5	0.65	ND<0.5	0.71	--	--	--	--	--
	1/24/94	450	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	560	ND<0.5	ND<0.5	ND<0.5	0.64	--	--	--	--	--
	9/28/94	600	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	210 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	93	4.1	0.50	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	380 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	400 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	110 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
5/20/97	330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	
3/31/98	460	ND<0.5	2.8	12	16	ND<0.5	--	--	--	--	
5/28/98	1,100	14	24	88	75	24	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	8/19/98	1,200	16	9.6	69	17	6.0	--	--	--	--
	11/17/98	580	15	4.4	14	ND<0.5	21	--	--	--	--
	2/18/99	390	8.0	ND<0.5	1.4	ND<0.5	44	--	--	--	--
	6/24/99	610	4.6	ND<0.5	0.66	ND<0.5	59	--	--	--	--
	11/9/99	250	0.87	ND<0.5	ND<0.5	ND<0.5	66	--	--	--	--
	3/22/00	330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	--	--	--	--
	6/12/00	52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	--	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	--	--	--	--
	5/21/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	--	--	--	--
	11/7/01	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	330	--	--	--	--
	6/3/02	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	ND<0.5	ND<0.5	ND<0.5	13
	11/14/02	240	ND<1	ND<1	ND<1	ND<1	380	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/15/03	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	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	35	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/28/04	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	440	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	230	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	310	ND<0.5	0.71	ND<0.5	1.6	4.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	930	ND<0.5	ND<0.5	ND<0.5	0.72	27	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	740	ND<0.5	0.58	ND<0.5	0.64	28	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	490	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	ND<5
10/30/07	420	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	480	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	370	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	320	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/30/09	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5	
DUP	1/30/09	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	10/7/09	410	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	460	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	400	ND<0.5	ND<0.5	ND<0.5	0.80	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.74	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-12	7/18/07	68 ^(g)	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
	10/30/07	70 ^(g)	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
	1/28/08	60 ^(g)	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	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
	7/16/08	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
	10/8/08	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
	1/29/09	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
	4/14/09	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
	7/1/09	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
	10/7/09	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
	2/17/10	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
	4/13/10	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
	10/27/10	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
	1/25/11	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
RW-1	5/15/92	790	270	62	29	140	--	--	--	--	--
	8/27/92	24,000	1,300	200	68	810	--	--	--	--	--
	2/3/93	620	71	35	22	110	--	--	--	--	--
	6/23/93	220	30	33	9.8	35	--	--	--	--	--
	9/22/93	4,100	800	400	170	910	--	--	--	--	--
	1/24/94	190	33	6.0	6.9	23	--	--	--	--	--
	4/7/94	1,500	110	57	32	260	--	--	--	--	--
	6/7/94	1,700	130	51	45	180	--	--	--	--	--
	9/28/94	350	54	9.2	12	29	--	--	--	--	--
	12/14/94	79	6.8	2.1	1.2	3.4	--	--	--	--	--
	4/10/95	410	54	11	11	69	--	--	--	--	--
	6/13/95	8,200	1,600	780	340	1,400	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	86	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	--	--	--	--
6/11/96	230	38	11	4.7	50	68	--	--	--	--	
10/2/96	360	68	29	14	75	47	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-1 (cont.)	1/28/97	ND<50	0.77	ND<0.5	ND<0.5	ND<0.5	9.0	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	--	--	--	--
	8/18/97	220	25	ND<0.5	ND<0.5	3.6	170	--	--	--	--
	9/29/97	900	240	2.8	51	55	230	--	--	--	--
	11/5/97	1,300	340	3.2	59	78	220	--	--	--	--
	3/31/98	4,100	450	130	200	940	4,100	--	--	--	--
	5/28/98	14,000	830	210	170	720	14,000	--	--	--	--
	8/19/98	2,100	20	ND<2.5	7.1	15	2,100	--	--	--	--
	11/17/98	630	7.8	ND<2.5	5.6	ND<2.5	730	--	--	--	--
	2/18/99	180	6.7	1.6	3.2	15	100	--	--	--	--
	6/24/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	42	--	--	--	--
	8/30/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	79	--	--	--	--
	11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	78	--	--	--	--
	3/22/00	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	17	--	--	--	--
	6/12/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	40	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	290	--	--	--	--
	2/26/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	--	--	--	--
	5/21/01	100	4.1	1.6	1.8	23	170	--	--	--	--
	9/5/01	73	33	ND<0.5	ND<0.5	ND<0.5	310	--	--	--	--
	11/7/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	--	--	--	--
	2/11/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	--	--	--	--
	6/3/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	ND<0.5	ND<0.5	ND<0.5	7.7
	8/6/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	190	ND<0.5	ND<0.5	ND<0.5	6.0
	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	99	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	88	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/28/04	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	52	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	57	ND<0.5	ND<0.5	ND<0.5	ND<5
7/16/04	ND<50	0.72	ND<0.5	ND<0.5	ND<0.5	100	ND<0.5	ND<0.5	ND<0.5	4.2	
11/13/04	ND<50	1.0	ND<0.5	ND<0.5	ND<0.5	71	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	45	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/13/05	ND<50	1.1	ND<0.5	ND<0.5	ND<0.5	52	ND<0.5	ND<0.5	ND<0.5	12	
8/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29	ND<0.5	ND<0.5	ND<0.5	ND<5	
11/5/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/30/06	ND<50	0.61	ND<0.5	ND<0.5	ND<0.5	1.3	23	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

**HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-1 (cont.) DUP	4/28/06	ND<50	0.69	ND<0.5	ND<0.5	1.6	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.5	ND<0.5	ND<0.5	ND<0.5	6.8
	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	6.6
	7/1/09	750	ND<0.5	ND<0.5	ND<0.5	0.67	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	0.68	ND<0.5	ND<0.5	ND<0.5	23	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	82	3.0	ND<0.5	4.0	1.4	10	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	4.2	ND<0.5	4.8	1.1	9.7	ND<0.5	ND<0.5	ND<0.5	7.5
	7/6/10	ND<50	0.82	ND<0.5	ND<0.5	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	6.6
1/25/11	230	17	ND<0.5	1.2	ND<0.5	9.6	ND<0.5	ND<0.5	ND<0.5	9.3	
RW-2	11/13/04	4,200	ND<0.5	ND<0.5	45	70	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	2,900	ND<0.5	ND<0.5	24	24	41	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	1,400	ND<0.5	ND<0.5	8.6	9.9	39	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	2,900	ND<0.5	ND<0.5	26	33	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	2,400	ND<0.5	ND<0.5	16	19	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	1,200	ND<0.5	ND<0.5	4.6	5.3	17	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	1,200	ND<0.5	ND<0.5	12	15	19	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	1,200	ND<0.5	ND<0.5	6.7	7.0	18	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	760	ND<0.5	ND<0.5	0.81	7.5	7.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	1,100	ND<0.5	ND<0.5	0.75	1.3	2.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	3,300	190	13	230	230	32	ND<0.5	ND<0.5	ND<0.5	18
	7/18/07	810	ND<0.5	ND<0.5	1.1	3.2	2.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	290	29	0.60	2.7	6.5	15	ND<0.5	ND<0.5	ND<0.5	8.6
	1/28/08	3,300	250	7.9	190	170	33	ND<0.5	ND<0.5	ND<0.5	17
	5/13/08	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-2 (cont.) DUP	10/8/08	400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	100	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
	1/30/09	430	ND<0.5	ND<0.5	ND<0.5	0.74	0.74	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	52	1.5	ND<0.5	ND<0.5	ND<0.5	14	ND<0.5	ND<0.5	ND<0.5	6.7
	10/7/09	350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	620	ND<0.5	ND<0.5	ND<0.5	0.92	0.84	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	390	ND<0.5	ND<0.5	ND<0.5	1.1	0.97	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	380	ND<0.5	ND<0.5	ND<0.5	0.79	0.82	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/10	220	ND<0.5	ND<0.5	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
1/25/11	460	ND<0.5	ND<0.5	ND<0.5	0.70	0.52	ND<0.5	ND<0.5	ND<0.5	ND<5	
DW-15800 ^(h)	1/14/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.81	ND<0.5	ND<0.5	ND<0.5	ND<5
	3/20/03	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
	9/19/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/5/07	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
	5/29/07	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
DW-15808 ^(h)	1/14/03	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
	3/20/03	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
	9/19/06	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
	2/5/07	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
	5/29/07	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
DW-246 ^(h)	9/19/06	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
	2/5/07 ⁽ⁱ⁾	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	7.0
	2/21/07	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
	5/29/07	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
OS-1 DUP	9/5/08	800	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
	10/8/08	610	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
	1/29/09	65	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
	1/30/09	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
	4/15/09	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
	7/1/09	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
	10/7/09	60	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
	2/18/10	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
1/25/11	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	
OS-2 DUP	9/5/08	1,300	ND<0.5	0.56	ND<0.5	ND<0.5	0.99	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	200	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
	1/30/09	1,900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (ug/l)	Benzene ^(b) (ug/l)	Toluene ^(b) (ug/l)	Ethylbenzene ^(b) (ug/l)	Total Xylenes ^(b) (ug/l)	MTBE ^(b) (ug/l)	DIPE ^(b) (ug/l)	ETBE ^(b) (ug/l)	TAME ^(b) (ug/l)	TBA ^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
OS-2 (cont.)	4/15/09	1,200	ND<0.5	ND<0.5	0.72	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	1,500	ND<0.5	ND<0.5	0.69	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	1,200	ND<0.5	ND<0.5	0.55	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	1,200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5
OS-3 DUP	9/5/08	3,200	160	15	72	470	19	ND<0.5	ND<0.5	ND<0.5	23
	10/8/08	4,100	240	38	240	630	22	ND<0.5	ND<0.5	ND<0.5	20
	1/29/09	670	78	3.5	75	28	11	ND<0.5	ND<0.5	ND<0.5	7.8
	1/30/09	1,400	140	5.3	120	120	11	ND<0.5	ND<0.5	ND<0.5	16
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	2,100	220	6.8	190	250	20	ND<0.5	ND<0.5	ND<0.5	18
	10/7/09	2,100	230	6.5	150	230	20	ND<0.5	ND<0.5	ND<0.5	16
	2/18/10	1,600	180	3.7	120	140	23	ND<0.5	ND<0.5	ND<0.5	8.6
1/25/11	140	13	ND<0.5	3.1	0.64	25	ND<0.5	ND<0.5	ND<0.5	6.7	
OS-4 DUP	9/5/08	210	ND<0.5	ND<0.5	ND<0.5	3.6	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	170	4.2	ND<0.5	ND<0.5	2.4	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	1.4	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	0.79	ND<0.5	22	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	88	12	ND<0.5	2.2	0.58	19	ND<0.5	ND<0.5	ND<0.5	28
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	680	14	ND<0.5	8.6	12	38	ND<0.5	ND<0.5	ND<0.5	12
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	0.55	25	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.8	ND<0.5	ND<0.5	ND<0.5	ND<5
PT-1 DUP	9/5/08	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	140	ND<0.5	ND<0.5	ND<0.5	1.0	5.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	ND<50	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
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

**HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date^(a)	TPHg^(b) (ug/l)	Benzene^(b) (ug/l)	Toluene^(b) (ug/l)	Ethylbenzene^(b) (ug/l)	Total Xylenes^(b) (ug/l)	MTBE^(b) (ug/l)	DIPE^(b) (ug/l)	ETBE^(b) (ug/l)	TAME^(b) (ug/l)	TBA^(b) (ug/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
PT-1 (cont.)	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	ND<5

- (a) Samples collected before January 2008 reported by others; data provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report
- (b) 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), analyzed by EPA Method 8260; reported in micrograms per liter (µg/l).
- (c) Environmental Screening Levels (ESLs) taken from Regional Water Quality Control Board, San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup tables dated November 2007.
- (d) NE - Not established.
- (e) "--" - Not analyzed.
- (f) ND - Not detected at the reporting limit listed; reporting limit not listed if not previously reported.
- (g) Not typical gasoline.
- (h) Domestic water wells (used as irrigation wells); DW-15800 collected from well at 15800 Via Cordoba, DW-15808 collected from well at 15808 Via Cordoba, DW-246 collected from well at 246 Peach Drive in San Lorenzo, CA.
- (i) Property owner had the RDM technician sample a faucet plumbed to city water. RDM resampled the 246 Peach well on 21 February 2007.

ATTACHMENT E

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



Laboratory Results

Mike Purchase
Arctos Environmental
1332 Peralta Avenue
Berkeley, CA 94702

Subject : 16 Water Samples
Project Name : Tesoro - San Lorenzo #67107
Project Number : 01ZO

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. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff

Subject : 16 Water Samples
Project Name : Tesoro - San Lorenzo #67107
Project Number : 01ZO

Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-10.

California Laboratory Services provided analytical testing associated with these samples, but is not accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Matrix Spike/Matrix Spike Duplicate results associated with samples MW-3R, MW-6, MW-9, OS-1, OS-2, OS-3, OS-4, PT-1 and RW-2 for the analyte Sulfate were affected by the analyte concentration present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate results associated with samples MW-3R, MW-6, MW-9, OS-1, OS-2, OS-3, OS-4, PT-1 and RW-2 for the analyte Nitrate as N were affected by the analyte concentration present in the un-spiked sample. Recoveries were calculated using data points beyond the calibration range.

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **OS-1**

Matrix : Water

Lab Number : 76204-01

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	10	0.50	mg/L	EPA 300.0	01/27/11 03:06
Sulfate	42	0.50	mg/L	EPA 300.0	01/26/11 18:07
Iron	50	0.10	mg/L	EPA 6010B	01/27/11 15:10
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:22
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/11 23:22
Methanol	< 50	50	ug/L	EPA 8260B	01/25/11 23:22
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/11 23:22
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/25/11 23:22
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	01/25/11 23:22
Toluene - d8 (Surr)	95.4		% Recovery	EPA 8260B	01/25/11 23:22

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **OS-2**

Matrix : Water

Lab Number : 76204-02

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	4.4	0.10	mg/L	EPA 300.0	01/26/11 16:42
Sulfate	38	0.50	mg/L	EPA 300.0	01/26/11 16:42
Iron	70	0.10	mg/L	EPA 6010B	01/27/11 15:14
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Methyl-t-butyl ether (MTBE)	1.2	0.50	ug/L	EPA 8260B	01/25/11 23:53
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/25/11 23:53
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/11 23:53
Methanol	< 50	50	ug/L	EPA 8260B	01/25/11 23:53
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/11 23:53
TPH as Gasoline	1200	50	ug/L	EPA 8260B	01/25/11 23:53
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	01/25/11 23:53
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	01/25/11 23:53

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **OS-4**

Matrix : Water

Lab Number : 76204-03

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	1.1	0.10	mg/L	EPA 300.0	01/26/11 18:35
Sulfate	36	0.50	mg/L	EPA 300.0	01/26/11 18:35
Iron	4.0	0.10	mg/L	EPA 6010B	01/27/11 14:42
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Methyl-t-butyl ether (MTBE)	7.8	0.50	ug/L	EPA 8260B	01/26/11 00:25
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:25
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 00:25
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 00:25
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 00:25
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 00:25
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/26/11 00:25
Toluene - d8 (Surr)	94.8		% Recovery	EPA 8260B	01/26/11 00:25

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-12**

Matrix : Water

Lab Number : 76204-04

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 00:56
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 00:56
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 00:56
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 00:56
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 00:56
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	01/26/11 00:56
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	01/26/11 00:56

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-6**

Matrix : Water

Lab Number : 76204-05

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	16	0.50	mg/L	EPA 300.0	01/27/11 03:34
Sulfate	42	0.50	mg/L	EPA 300.0	01/26/11 20:00
Iron	41	0.10	mg/L	EPA 6010B	01/27/11 15:18
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:28
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 01:28
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 01:28
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 01:28
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 01:28
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	01/26/11 01:28
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	01/26/11 01:28

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-4**

Matrix : Water

Lab Number : 76204-06

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 01:59
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 01:59
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 01:59
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 01:59
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 01:59
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	01/26/11 01:59
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	01/26/11 01:59

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-9**

Matrix : Water

Lab Number : 76204-07

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	5.9	0.20	mg/L	EPA 300.0	01/26/11 23:19
Sulfate	32	0.50	mg/L	EPA 300.0	01/26/11 15:17
Iron	7.2	0.10	mg/L	EPA 6010B	01/27/11 14:59
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 02:30
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 02:30
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 02:30
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 02:30
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 02:30
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	01/26/11 02:30
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	01/26/11 02:30

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-2**

Matrix : Water

Lab Number : 76204-08

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:02
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 03:02
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 03:02
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 03:02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 03:02
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/26/11 03:02
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	01/26/11 03:02

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-1**

Matrix : Water

Lab Number : 76204-09

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Methyl-t-butyl ether (MTBE)	6.8	0.50	ug/L	EPA 8260B	01/26/11 03:33
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 03:33
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 03:33
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 03:33
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 03:33
TPH as Gasoline	140	50	ug/L	EPA 8260B	01/26/11 03:33
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/26/11 03:33
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	01/26/11 03:33

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **PT-1**

Matrix : Water

Lab Number : 76204-10

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	0.31	0.10	mg/L	EPA 300.0	01/26/11 20:29
Sulfate	37	0.50	mg/L	EPA 300.0	01/26/11 20:29
Iron	0.32	0.10	mg/L	EPA 6010B	01/27/11 14:47
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Methyl-t-butyl ether (MTBE)	6.3	0.50	ug/L	EPA 8260B	01/26/11 04:04
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:04
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 04:04
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 04:04
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 04:04
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/11 04:04
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/26/11 04:04
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	01/26/11 04:04

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **RW-1**

Matrix : Water

Lab Number : 76204-11

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	17	0.50	ug/L	EPA 8260B	01/26/11 04:36
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:36
Ethylbenzene	1.2	0.50	ug/L	EPA 8260B	01/26/11 04:36
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:36
Methyl-t-butyl ether (MTBE)	9.6	0.50	ug/L	EPA 8260B	01/26/11 04:36
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:36
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:36
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 04:36
Tert-Butanol	9.3	5.0	ug/L	EPA 8260B	01/26/11 04:36
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 04:36
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 04:36
TPH as Gasoline	230	50	ug/L	EPA 8260B	01/26/11 04:36
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	01/26/11 04:36
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	01/26/11 04:36

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-11**

Matrix : Water

Lab Number : 76204-12

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Methyl-t-butyl ether (MTBE)	0.77	0.50	ug/L	EPA 8260B	01/26/11 05:07
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 05:07
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 05:07
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 05:07
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 05:07
TPH as Gasoline	240	50	ug/L	EPA 8260B	01/26/11 05:07
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	01/26/11 05:07
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	01/26/11 05:07

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-10**

Matrix : Water

Lab Number : 76204-13

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:57
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:57
Ethylbenzene	1.6	0.50	ug/L	EPA 8260B	01/26/11 09:57
Total Xylenes	2.1	0.50	ug/L	EPA 8260B	01/26/11 09:57
Methyl-t-butyl ether (MTBE)	0.59	0.50	ug/L	EPA 8260B	01/26/11 09:57
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:57
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:57
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:57
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 09:57
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 09:57
Ethanol	< 20	20	ug/L	EPA 8260B	01/26/11 09:57
TPH as Gasoline	3500	50	ug/L	EPA 8260B	01/26/11 09:57
1,2-Dichloroethane-d4 (Surr)	90.0		% Recovery	EPA 8260B	01/26/11 09:57
Toluene - d8 (Surr)	90.3		% Recovery	EPA 8260B	01/26/11 09:57

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **RW-2**

Matrix : Water

Lab Number : 76204-14

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	2.4	0.10	mg/L	EPA 300.0	01/26/11 20:57
Sulfate	53	1.0	mg/L	EPA 300.0	01/27/11 04:03
Iron	1.2	0.10	mg/L	EPA 6010B	01/27/11 14:51
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Total Xylenes	0.70	0.50	ug/L	EPA 8260B	01/26/11 09:54
Methyl-t-butyl ether (MTBE)	0.52	0.50	ug/L	EPA 8260B	01/26/11 09:54
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:54
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 09:54
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 09:54
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 09:54
TPH as Gasoline	460	50	ug/L	EPA 8260B	01/26/11 09:54
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	01/26/11 09:54
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	01/26/11 09:54

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-3R**

Matrix : Water

Lab Number : 76204-15

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	01/26/11 21:25
Sulfate	19	0.50	mg/L	EPA 300.0	01/26/11 21:25
Iron	2.1	0.10	mg/L	EPA 6010B	01/27/11 14:30
Benzene	64	0.50	ug/L	EPA 8260B	01/26/11 09:46
Toluene	1.1	0.50	ug/L	EPA 8260B	01/26/11 09:46
Ethylbenzene	40	0.50	ug/L	EPA 8260B	01/26/11 09:46
Total Xylenes	9.4	0.50	ug/L	EPA 8260B	01/26/11 09:46
Methyl-t-butyl ether (MTBE)	9.8	0.50	ug/L	EPA 8260B	01/26/11 09:46
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:46
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:46
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 09:46
Tert-Butanol	14	5.0	ug/L	EPA 8260B	01/26/11 09:46
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 09:46
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 09:46
TPH as Gasoline	1100	50	ug/L	EPA 8260B	01/26/11 09:46
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery	EPA 8260B	01/26/11 09:46
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	01/26/11 09:46

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **OS-3**

Matrix : Water

Lab Number : 76204-16

Sample Date :01/25/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	01/26/11 21:54
Sulfate	32	0.50	mg/L	EPA 300.0	01/26/11 21:54
Iron	7.0	0.10	mg/L	EPA 6010B	01/27/11 14:55
Benzene	13	0.50	ug/L	EPA 8260B	01/26/11 11:58
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 11:58
Ethylbenzene	3.1	0.50	ug/L	EPA 8260B	01/26/11 11:58
Total Xylenes	0.64	0.50	ug/L	EPA 8260B	01/26/11 11:58
Methyl-t-butyl ether (MTBE)	25	0.50	ug/L	EPA 8260B	01/26/11 11:58
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 11:58
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 11:58
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/11 11:58
Tert-Butanol	6.7	5.0	ug/L	EPA 8260B	01/26/11 11:58
Methanol	< 50	50	ug/L	EPA 8260B	01/26/11 11:58
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/11 11:58
TPH as Gasoline	140	50	ug/L	EPA 8260B	01/26/11 11:58
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	01/26/11 11:58
Toluene - d8 (Surr)	92.4		% Recovery	EPA 8260B	01/26/11 11:58

QC Report : Method Blank Data

Project Name : Tesoro - San Lorenzo #67107

Project Number : 01ZO

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	01/27/2011	Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/2011	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Methanol	< 50	50	ug/L	EPA 8260B	01/26/2011
Methanol	< 50	50	ug/L	EPA 8260B	01/25/2011	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/25/2011	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/25/2011	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/25/2011	1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	01/26/2011
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	01/25/2011	Toluene - d8 (Surr)	98.7		%	EPA 8260B	01/26/2011
Toluene - d8 (Surr)	96.1		%	EPA 8260B	01/25/2011	Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Methanol	< 50	50	ug/L	EPA 8260B	01/26/2011
Methanol	< 50	50	ug/L	EPA 8260B	01/26/2011	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/26/2011	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/26/2011	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/26/2011	1,2-Dichloroethane-d4 (Surr)	97.4		%	EPA 8260B	01/26/2011
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	01/26/2011	Toluene - d8 (Surr)	97.3		%	EPA 8260B	01/26/2011
Toluene - d8 (Surr)	92.2		%	EPA 8260B	01/26/2011						

Report Number : 76204

Date : 02/01/2011

QC Report : Method Blank Data

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	01/26/2011
Sulfate	< 0.50	0.50	mg/L	EPA 300.0	01/26/2011

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
Nitrate as N														
	76204-07	6.4	0.500	0.500	6.55	6.51	mg/L	EPA 300.0	1/26/11	27.2	20.0	0.551	85.0-115	10
Sulfate														
	76204-07	32	2.50	2.50	32.8	32.6	mg/L	EPA 300.0	1/26/11	27.3	21.3	0.463	85.0-115	10
Iron														
	76204-15	2.1	0.400	0.400	2.56	2.56	mg/L	EPA 6010B	1/27/11	116	115	0.156	75-125	20
Benzene														
	76202-02	<0.50	40.0	40.0	37.9	37.6	ug/L	EPA 8260B	1/25/11	94.7	94.0	0.738	80-120	25
Diisopropyl ether														
	76202-02	<0.50	40.0	40.0	37.8	38.5	ug/L	EPA 8260B	1/25/11	94.5	96.2	1.82	80-120	25
Ethanol														
	76202-02	<5.0	99.7	99.7	97.9	94.6	ug/L	EPA 8260B	1/25/11	98.2	94.8	3.48	55.1-159	25
Ethyl-tert-butyl ether														
	76202-02	<0.50	40.0	40.0	39.9	40.1	ug/L	EPA 8260B	1/25/11	99.7	100	0.408	76.5-120	25
Ethylbenzene														
	76202-02	<0.50	40.0	40.0	40.1	40.4	ug/L	EPA 8260B	1/25/11	100	101	0.760	80-120	25
Methanol														
	76202-02	<50	1000	1000	1020	1020	ug/L	EPA 8260B	1/25/11	102	102	0.318	53.2-147	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
Methyl-t-butyl ether	76202-02	7.6	39.9	39.9	48.0	48.5	ug/L	EPA 8260B	1/25/11	101	103	1.29	69.7-121	25
P + M Xylene	76202-02	<0.50	40.0	40.0	40.5	41.1	ug/L	EPA 8260B	1/25/11	101	103	1.55	76.8-120	25
Tert-Butanol	76202-02	<5.0	200	200	190	190	ug/L	EPA 8260B	1/25/11	95.3	95.3	0.0629	80-120	25
Tert-amyl-methyl ether	76202-02	<0.50	40.0	40.0	39.2	39.3	ug/L	EPA 8260B	1/25/11	98.0	98.2	0.216	78.9-120	25
Toluene	76202-02	<0.50	40.0	40.0	37.8	37.2	ug/L	EPA 8260B	1/25/11	94.4	92.9	1.64	80-120	25
Benzene	76204-13	<0.50	40.0	40.0	33.8	33.5	ug/L	EPA 8260B	1/26/11	84.5	83.7	0.950	80-120	25
Diisopropyl ether	76204-13	<0.50	40.0	40.0	34.1	35.2	ug/L	EPA 8260B	1/26/11	85.2	88.0	3.31	80-120	25
Ethanol	76204-13	12	99.7	99.7	120	115	ug/L	EPA 8260B	1/26/11	109	104	4.80	55.1-159	25
Ethyl-tert-butyl ether	76204-13	<0.50	40.0	40.0	34.6	35.4	ug/L	EPA 8260B	1/26/11	86.5	88.5	2.35	76.5-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
Ethylbenzene	76204-13	1.6	40.0	40.0	42.2	42.0	ug/L	EPA 8260B	1/26/11	102	101	0.582	80-120	25
Methanol	76204-13	<50	1000	1000	1080	1040	ug/L	EPA 8260B	1/26/11	108	104	4.12	53.2-147	25
Methyl-t-butyl ether	76204-13	0.59	39.9	39.9	37.2	38.1	ug/L	EPA 8260B	1/26/11	91.9	94.0	2.27	69.7-121	25
P + M Xylene	76204-13	2.1	40.0	40.0	43.4	43.8	ug/L	EPA 8260B	1/26/11	103	104	1.05	76.8-120	25
Tert-Butanol	76204-13	<5.0	200	200	194	192	ug/L	EPA 8260B	1/26/11	97.3	96.0	1.34	80-120	25
Tert-amyl-methyl ether	76204-13	<0.50	40.0	40.0	34.1	35.2	ug/L	EPA 8260B	1/26/11	85.3	88.0	3.10	78.9-120	25
Toluene	76204-13	<0.50	40.0	40.0	34.3	32.8	ug/L	EPA 8260B	1/26/11	85.7	82.0	4.36	80-120	25
Benzene	76204-14	<0.50	40.0	40.0	40.3	40.3	ug/L	EPA 8260B	1/26/11	101	101	0.0863	80-120	25
Diisopropyl ether	76204-14	<0.50	40.0	40.0	41.8	41.9	ug/L	EPA 8260B	1/26/11	104	105	0.309	80-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
Ethanol	76204-14	<5.0	99.7	99.7	98.9	99.5	ug/L	EPA 8260B	1/26/11	99.2	99.8	0.614	55.1-159	25
Ethyl-tert-butyl ether	76204-14	<0.50	40.0	40.0	40.6	40.7	ug/L	EPA 8260B	1/26/11	101	102	0.348	76.5-120	25
Ethylbenzene	76204-14	<0.50	40.0	40.0	41.6	41.4	ug/L	EPA 8260B	1/26/11	104	104	0.445	80-120	25
Methanol	76204-14	<50	1000	1000	1070	1070	ug/L	EPA 8260B	1/26/11	107	107	0.266	53.2-147	25
Methyl-t-butyl ether	76204-14	0.52	39.9	39.9	40.2	40.9	ug/L	EPA 8260B	1/26/11	99.6	101	1.66	69.7-121	25
P + M Xylene	76204-14	0.70	40.0	40.0	39.8	39.3	ug/L	EPA 8260B	1/26/11	97.8	96.6	1.24	76.8-120	25
Tert-Butanol	76204-14	<5.0	200	200	201	202	ug/L	EPA 8260B	1/26/11	100	101	0.489	80-120	25
Tert-amyl-methyl ether	76204-14	<0.50	40.0	40.0	39.5	39.2	ug/L	EPA 8260B	1/26/11	98.7	98.0	0.696	78.9-120	25
Toluene	76204-14	<0.50	40.0	40.0	40.1	40.2	ug/L	EPA 8260B	1/26/11	100	100	0.127	80-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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	76204-15	64	40.0	40.0	102	102	ug/L	EPA 8260B	1/26/11	96.4	97.0	0.568	80-120	25
Diisopropyl ether	76204-15	<0.50	40.0	40.0	38.3	39.2	ug/L	EPA 8260B	1/26/11	95.7	97.9	2.34	80-120	25
Ethanol	76204-15	<5.0	99.7	99.7	101	111	ug/L	EPA 8260B	1/26/11	102	112	9.33	55.1-159	25
Ethyl-tert-butyl ether	76204-15	<0.50	40.0	40.0	37.2	37.6	ug/L	EPA 8260B	1/26/11	92.9	93.9	1.00	76.5-120	25
Ethylbenzene	76204-15	40	40.0	40.0	81.8	80.7	ug/L	EPA 8260B	1/26/11	106	103	2.55	80-120	25
Methanol	76204-15	<50	1000	1000	995	1050	ug/L	EPA 8260B	1/26/11	99.5	105	5.51	53.2-147	25
Methyl-t-butyl ether	76204-15	9.8	39.9	39.9	44.5	45.2	ug/L	EPA 8260B	1/26/11	87.1	88.8	1.99	69.7-121	25
P + M Xylene	76204-15	9.4	40.0	40.0	51.5	51.1	ug/L	EPA 8260B	1/26/11	105	104	0.901	76.8-120	25
Tert-Butanol	76204-15	14	200	200	218	217	ug/L	EPA 8260B	1/26/11	102	101	0.619	80-120	25
Tert-amyl-methyl ether	76204-15	<0.50	40.0	40.0	38.2	37.4	ug/L	EPA 8260B	1/26/11	95.4	93.4	2.13	78.9-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

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
Toluene	76204-15	1.1	40.0	40.0	39.4	39.7	ug/L	EPA 8260B	1/26/11	95.9	96.4	0.558	80-120	25

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Iron	0.400	mg/L	EPA 6010B	1/27/11	104	85-115
Benzene	39.9	ug/L	EPA 8260B	1/25/11	93.4	80-120
Diisopropyl ether	39.9	ug/L	EPA 8260B	1/25/11	93.7	80-120
Ethanol	99.5	ug/L	EPA 8260B	1/25/11	92.6	55.1-159
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	1/25/11	96.8	76.5-120
Ethylbenzene	39.9	ug/L	EPA 8260B	1/25/11	99.8	80-120
Methanol	997	ug/L	EPA 8260B	1/25/11	103	53.2-147
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	1/25/11	97.2	69.7-121
P + M Xylene	39.9	ug/L	EPA 8260B	1/25/11	102	76.8-120
TPH as Gasoline	497	ug/L	EPA 8260B	1/25/11	98.2	70.0-130
Tert-Butanol	199	ug/L	EPA 8260B	1/25/11	94.6	80-120
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	1/25/11	97.1	78.9-120
Toluene	39.9	ug/L	EPA 8260B	1/25/11	92.7	80-120
Benzene	39.8	ug/L	EPA 8260B	1/26/11	93.6	80-120
Diisopropyl ether	39.8	ug/L	EPA 8260B	1/26/11	92.2	80-120
Ethanol	99.3	ug/L	EPA 8260B	1/26/11	93.2	55.1-159
Ethyl-tert-butyl ether	39.8	ug/L	EPA 8260B	1/26/11	96.0	76.5-120
Ethylbenzene	39.8	ug/L	EPA 8260B	1/26/11	99.6	80-120
Methanol	995	ug/L	EPA 8260B	1/26/11	107	53.2-147
Methyl-t-butyl ether	39.7	ug/L	EPA 8260B	1/26/11	98.0	69.7-121

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
P + M Xylene	39.8	ug/L	EPA 8260B	1/26/11	99.7	76.8-120
TPH as Gasoline	498	ug/L	EPA 8260B	1/26/11	93.0	70.0-130
Tert-Butanol	199	ug/L	EPA 8260B	1/26/11	94.7	80-120
Tert-amyl-methyl ether	39.8	ug/L	EPA 8260B	1/26/11	96.2	78.9-120
Toluene	39.8	ug/L	EPA 8260B	1/26/11	98.3	80-120
Benzene	39.9	ug/L	EPA 8260B	1/26/11	99.2	80-120
Diisopropyl ether	39.9	ug/L	EPA 8260B	1/26/11	102	80-120
Ethanol	99.5	ug/L	EPA 8260B	1/26/11	96.9	55.1-159
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	1/26/11	102	76.5-120
Ethylbenzene	39.9	ug/L	EPA 8260B	1/26/11	103	80-120
Methanol	997	ug/L	EPA 8260B	1/26/11	105	53.2-147
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	1/26/11	98.6	69.7-121
P + M Xylene	39.9	ug/L	EPA 8260B	1/26/11	96.7	76.8-120
TPH as Gasoline	497	ug/L	EPA 8260B	1/26/11	106	70.0-130
Tert-Butanol	199	ug/L	EPA 8260B	1/26/11	100	80-120
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	1/26/11	100	78.9-120
Toluene	39.9	ug/L	EPA 8260B	1/26/11	98.6	80-120
Benzene	39.8	ug/L	EPA 8260B	1/26/11	98.8	80-120
Diisopropyl ether	39.8	ug/L	EPA 8260B	1/26/11	101	80-120
Ethanol	99.3	ug/L	EPA 8260B	1/26/11	97.0	55.1-159
Ethyl-tert-butyl ether	39.8	ug/L	EPA 8260B	1/26/11	94.2	76.5-120

QC Report : Laboratory Control Sample (LCS)Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Ethylbenzene	39.8	ug/L	EPA 8260B	1/26/11	103	80-120
Methanol	995	ug/L	EPA 8260B	1/26/11	98.4	53.2-147
Methyl-t-butyl ether	39.7	ug/L	EPA 8260B	1/26/11	86.4	69.7-121
P + M Xylene	39.8	ug/L	EPA 8260B	1/26/11	103	76.8-120
TPH as Gasoline	496	ug/L	EPA 8260B	1/26/11	95.1	70.0-130
Tert-Butanol	199	ug/L	EPA 8260B	1/26/11	99.1	80-120
Tert-amyl-methyl ether	39.8	ug/L	EPA 8260B	1/26/11	96.1	78.9-120
Toluene	39.8	ug/L	EPA 8260B	1/26/11	98.0	80-120
Nitrate as N	0.500	mg/L	EPA 300.0	1/26/11	95.9	85.0-115
Sulfate	2.50	mg/L	EPA 300.0	1/26/11	102	85.0-115



2795 2nd Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No.

76204

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

Mike Purchase
 Company / Address: Arctos Environmental
 1332 Peralta Avenue, Berkley, CA. 90806
 Phone Number: (510) 525-2180
 Fax Number: (510) 525-2392
 Project #: P.O. #:
 Project Name: Tesoro - San Lorenzo #67107

Sample Designation	Sampling		Containers & Preservatives							Matrix			TPH-G, BTEX (8260B)	7 Oxygenates (MTBE, DPE, ETBE, TAME, TBA, EOH, MBOH) (EPA 8260B)	Nitrate & Sulfate	BOD	COD	TOC	Total Alkalinity (SM2320 B)	Total Iron (EPA 6010)	Ferrous Iron (SM 3500-Fe D)	circle method					Methane (RSK 175M)	TAT
	Date	Time	40 ml HCl VOA	250 mL HDPE unpres.	500 mL HDPE unpres.	250 mL HDPE HNO ₃	250 mL glass H ₂ SO ₄	125 mL Amber glass w/ septae	Water	Soil	Air	Total Organic Carbon (EPA 415.1)										Total Lead (EPA 200.7 / 6010)	Carbon Dioxide (SM 4500-CO2D)	Phosphorus, Nitrate, Nitrite and Sulfate (EPA 300.0/365.3)				
RW-1	1-25-11	1415	3								X																11	
Mw-11	1-25-11	1325	3								X																12	
Mw-10	1-25-11	1340	3								X																13	
RW-2	1-25-11	1405	3	3	1	1	2				X			X	X	X	X	X	X	X	X						14	
Mw-3R	1-25-11	1440	3	3	1	1	2				X			X	X	X	X	X	X	X	X						15	
OS-3	1-25-11	1450	3	3	1	1	2				X			X	X	X	X	X	X	X	X						16	

Chain-of-Custody Record and Analysis Request

Analysis Request

Sampler Signature: *[Signature]*

Relinquished by: *[Signature]* Date: 1-25-11 Time: 1450 Received by: *[Signature]*

Relinquished by: *[Signature]* Date: Date Time: Time Received by: *[Signature]*

Relinquished by: *[Signature]* Date: 012511 Time: 1450 Received by Laboratory: *[Signature]* Kiff Analytical

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

SAMPLE RECEIPT CHECKLIST

SRG#: 76204 Date: 012511
 Project ID: Tesorero - San Lorenzo #67103
 Method of Receipt: Courier Over-the-counter Shipper

COC Inspection

Is COC present? Yes No
 Custody seals on shipping container? Intact Broken Not present N/A
 Is COC Signed by Relinquisher? Yes No Dated? Yes No
 Is sampler name legibly indicated on COC? Yes No
 Is analysis or hold requested for all samples? Yes No
 Is the turnaround time indicated on COC? Yes No
 Is COC free of whiteout and uninitialed cross-outs? Yes No, Whiteout No, Cross-outs

Sample Inspection

Coolant Present: 4.5 Yes No (includes water)
 Temperature °C 4.5 Therm. ID# FR Initial LJR Date/Time 012511/1751 N/A
 Are there custody seals on sample containers? Intact Broken Not present
 Do containers match COC? Yes No No, COC lists absent sample(s) No, Extra sample(s) present
 Are there samples matrices other than soil, water, air or carbon? Yes No
 Are any sample containers broken, leaking or damaged? Yes No
 Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated N/A
 Are preservatives correct for analyses requested? Yes No N/A
 Are samples within holding time for analyses requested? Yes No
 Are the correct sample containers used for the analyses requested? Yes No
 Is there sufficient sample to perform testing? Yes No
 Does any sample contain product, have strong odor or are otherwise suspected to be hot? Yes No

Receipt Details

Matrix WA Container type VOA # of containers received 48
 Matrix WA Container type glass # of containers received 18
 Matrix WA Container type poly # of containers received 45
 Date and Time Sample Put into Temp Storage Date: 012511 Time: 1806

Quicklog

Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated
 If Sample ID's are listed on both COC and containers, do they all match? Yes No N/A
 Is the Project ID indicated: On COC On sample container(s) On Both Not indicated
 If project ID is listed on both COC and containers, do they all match? Yes No N/A
 Are the sample collection dates indicated: On COC On sample container(s) On Both Not indicated
 If collection dates are listed on both COC and containers, do they all match? Yes No N/A
 Are the sample collection times indicated: On COC On sample container(s) On Both Not indicated
 If collection times are listed on both COC and containers, do they all match? Yes No N/A

COMMENTS:



Subcontract Laboratory Report Attachments

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

February 01, 2011

CLS Work Order #: CUA0919
COC #: 76204

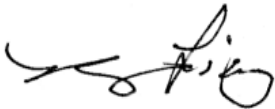
Scott Forbes
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project Name: Tesoro - San Lorenzo #67107

Enclosed are the results of analyses for samples received by the laboratory on 01/26/11 09:07. 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

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Lorenzo #67107 Project Number: [none] Project Manager: Scott Forbes	CLS Work Order #: CUA0919 COC #: 76204
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KIFF ANALYTICAL

5302974802

01/26/2011 09:04

CUA0919

KIFF Analytical LLC		2795 Second Street, Suite 300 Davis, CA 95618 Lab: 530.297.4800 Fax: 530.297.4808		California Laboratory Services 3249 Fitzgerald Road Rancho Cordova, CA 95742 916-638-7301		COC No. 76204 Page 1 of 2
Project Contact (Hardcopy or PDF to): Scott Forbes		EDF Report? YES		Chain-of-Custody Record and Analysis Request		
Company/Address: Kiff Analytical		Recommended but not mandatory to complete this section: Sampling Company Log Code: CESC		Analysis Request		TAT
Phone No.: 530-297-4800	FAX No.: 530-297-4808	Global ID: T0600101414				
Project Number: 76204	P.O. No.:	Deliverables to (Email Address): inbox@kiffanalytical.com				
Project Name: Tesoro - San Lorenzo #67107		Container / Preservative		Matrix		
Project Address:		1-L Poly None		Water		
Sample Designation		Sampling		Biochemical Oxygen Demand		Standard
		Date	Time	250ml Poly None	Iron, Ferrout	
OS-1		01/25/11	10:10	1	1	X
OS-2		01/25/11	10:25	1	1	X
OS-4		01/25/11	10:40	1	1	X
MW-6		01/25/11	11:20	1	1	X
MW-9		01/25/11	11:55	1	1	X
PT-1		01/25/11	12:45	1	1	X
RW-2		01/25/11	14:05	1	1	X
MW-3R		01/25/11	14:40	1	1	X
OS-3		01/25/11	14:50	1	1	X
Relinquished by: <i>[Signature]</i>		Date:	Time:	Received by:		Remarks: XLS file needed. 1-2°C Bill to: Accounts Payable
Relinquished by: <i>[Signature]</i>		Date:	Time:	Received by:		
Relinquished by:		Date:	Time:	Received by Laboratory: <i>SONR 1-26-11 9:07</i>		

CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Lorenzo #67107 Project Number: [none] Project Manager: Scott Forbes	CLS Work Order #: CUA0919 COC #: 76204
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Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OS-1 (CUA0919-01) Water Sampled: 01/25/11 10:10 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
OS-2 (CUA0919-02) Water Sampled: 01/25/11 10:25 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	3.0	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
OS-4 (CUA0919-03) Water Sampled: 01/25/11 10:40 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
MW-6 (CUA0919-04) Water Sampled: 01/25/11 11:20 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
MW-9 (CUA0919-05) Water Sampled: 01/25/11 11:55 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
PT-1 (CUA0919-06) Water Sampled: 01/25/11 12:45 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
RW-2 (CUA0919-07) Water Sampled: 01/25/11 14:05 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	

CALIFORNIA LABORATORY SERVICES

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02/01/11 09:29

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

Project: Tesoro - San Lorenzo #67107
Project Number: [none]
Project Manager: Scott Forbes

CLS Work Order #: CUA0919
COC #: 76204

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3R (CUA0919-08) Water Sampled: 01/25/11 14:40 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	0.12	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	
OS-3 (CUA0919-09) Water Sampled: 01/25/11 14:50 Received: 01/26/11 09:07									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU00566	01/26/11	01/31/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU00581	01/26/11	01/26/11	SM3500-Fe D	

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 Lorenzo #67107 Project Number: [none] Project Manager: Scott Forbes	CLS Work Order #: CUA0919 COC #: 76204
---	---	---

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 CU00566 - General

Blank (CU00566-BLK1)				Prepared: 01/26/11 Analyzed: 01/31/11						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CU00566-BS1)				Prepared: 01/26/11 Analyzed: 01/31/11						
Biochemical Oxygen Demand	186	3.0	mg/L	167		112	83-138			
LCS Dup (CU00566-BSD1)				Prepared: 01/26/11 Analyzed: 01/31/11						
Biochemical Oxygen Demand	177	3.0	mg/L	167		106	83-138	5	21	

Batch CU00581 - General Preparation

Blank (CU00581-BLK1)				Prepared & Analyzed: 01/26/11						
Ferrous Iron	ND	0.10	mg/L							
LCS (CU00581-BS1)				Prepared & Analyzed: 01/26/11						
Ferrous Iron	0.250	0.10	mg/L	0.250		100	80-120			
LCS Dup (CU00581-BSD1)				Prepared & Analyzed: 01/26/11						
Ferrous Iron	0.274	0.10	mg/L	0.250		110	80-120	9	25	
Matrix Spike (CU00581-MS1)				Source: CUA0919-06 Prepared & Analyzed: 01/26/11						
Ferrous Iron	0.281	0.10	mg/L	0.250	0.0110	108	75-125			
Matrix Spike Dup (CU00581-MSD1)				Source: CUA0919-06 Prepared & Analyzed: 01/26/11						
Ferrous Iron	0.281	0.10	mg/L	0.250	0.0110	108	75-125	0	30	

CALIFORNIA LABORATORY SERVICES

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02/01/11 09:29

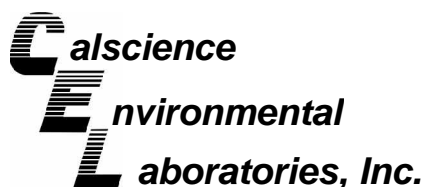
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: Tesoro - San Lorenzo #67107
Project Number: [none]
Project Manager: Scott Forbes

CLS Work Order #: CUA0919
COC #: 76204

Notes and Definitions

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



February 03, 2011

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

Subject: **CalScience Work Order No.: 11-01-1681**
Client Reference: Tesoro - San Lorenzo #67107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/27/2011 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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 black ink 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: 01/27/11
Work Order No: 11-01-1681

Project: Tesoro - San Lorenzo #67107

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
OS-1	11-01-1681-1	01/25/11	Aqueous

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	8.0	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	310	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.3	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

OS-2	11-01-1681-2	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	343	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.6	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

OS-4	11-01-1681-3	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	5.0	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	398	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.3	0.50	1		mg/L	N/A	01/28/11	SM 5310 D


MW-6	11-01-1681-4	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	344	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.2	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

MW-9	11-01-1681-5	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	235	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.0	0.50	1		mg/L	N/A	01/28/11	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: 01/27/11
Work Order No: 11-01-1681

Project: Tesoro - San Lorenzo #67107

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
PT-1	11-01-1681-6	01/25/11	Aqueous

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	8.0	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	388	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.2	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

RW-2	11-01-1681-7	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	5.0	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	340	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.3	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

MW-3R	11-01-1681-8	01/25/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	9.0	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	525	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	2.4	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

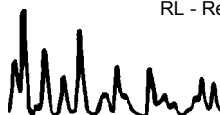
OS-3	11-01-1681-9	01/25/11	Aqueous
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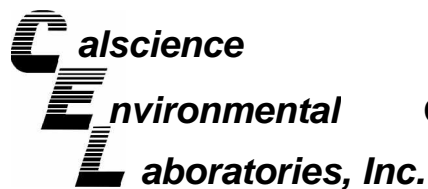
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	499	5.00	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	1.5	0.50	1		mg/L	N/A	01/28/11	SM 5310 D

Method Blank	N/A	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/31/11	01/31/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	ND	1.0	1		mg/L	N/A	02/02/11	SM 2320B
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	01/28/11	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

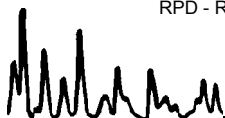
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Work Order No: 11-01-1681

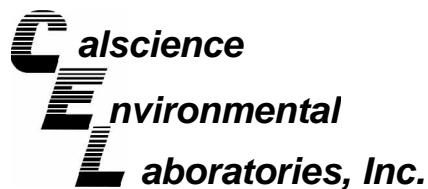
Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

<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	11-01-1667-1	01/28/11	N/A	98	97	75-125	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



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

Date Received: N/A
Work Order No: 11-01-1681

Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Alkalinity, Total (as CaCO ₃)	SM 2320B	OS-1	02/02/11	310	308	1	0-25	
Bicarbonate (as CaCO ₃)	SM 2320B	OS-1	02/02/11	310	308	1	0-25	
Carbonate (as CaCO ₃)	SM 2320B	OS-1	02/02/11	ND	ND	NA	0-25	
Hydroxide (as CaCO ₃)	SM 2320B	OS-1	02/02/11	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	11-01-1685-3	01/31/11	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



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

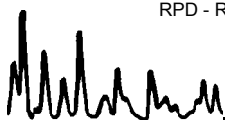
Date Received: N/A
 Work Order No: 11-01-1681

Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

<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	099-05-097-4,153	01/28/11	N/A	5.0	4.9	98	80-120	

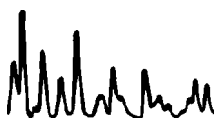
RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 11-01-1681

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
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.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.





2795 Second Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4808

Calscience
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 714-895-5494

COC No. **76204**

Page 1 of 1

1689

Project Contact (Hardcopy or PDF to): Scott Forbes		EDF Report? YES	Chain-of-Custody Record and Analysis Request											
--	--	------------------------	---	--	--	--	--	--	--	--	--	--	--	--

Company/Address: Kiff Analytical		Recommended but not mandatory to complete this section:																	
Phone No.: 530-297-4800		FAX No.: 530-297-4808		Project Number: 76204		P.O. No.: 76204		Sampling Company Log Code: CESC		Global ID: T0600101414		Deliverables to (Email Address): inbox@kiffanalytical.com		Analysis Request				TAT	

Project Name: Tesoro - San Lorenzo #67107	Project Address:	Container / Preservative										Matrix			Alkalinity SM 2320 (1)	Chemical Oxygen Demand	Total Organic Carbon	4-Days				For Lab Use Only											
		250ml Glass H2SO4	250ml Poly None																														
Sample Designation	Date	Time																															
OS-1	01/25/11	10:10	2	1										X			X	X	X												X		1
OS-2	01/25/11	10:25	2	1										X			X	X	X												X		2
OS-4	01/25/11	10:40	2	1										X			X	X	X												X		3
MW-6	01/25/11	11:20	2	1										X			X	X	X												X		4
MW-9	01/25/11	11:55	2	1										X			X	X	X												X		5
PT-1	01/25/11	12:45	2	1										X			X	X	X												X		6
RW-2	01/25/11	14:05	2	1										X			X	X	X												X		7
MW-3R	01/25/11	14:40	2	1										X			X	X	X												X		8
OS-3	01/25/11	14:50	2	1										X			X	X	X												X		9

Relinquished by: <i>[Signature]</i> Kiff Analytical	Date 01/26/11	Time 1900	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 1/27/11	Time 0900	Received by Laboratory <i>[Signature]</i>

Remarks: Please refer to attached Test Detail. XLS file needed.

Bill to: Accounts Payable

1681

Test Detail for Kiff Work Order: 76204

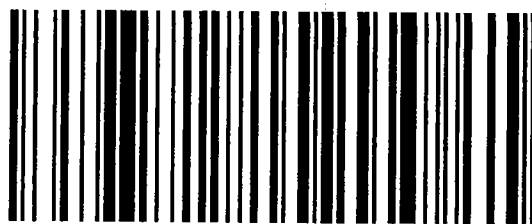
Alkalinity SM 2320 (1)
Alkalinity, Total (as CaCO₃)

1687



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D10010349455588

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Shipped From:

KIFF ANALYTICAL
2795 2ND STREET 300
DAVIS, CA 95616

Sent By: SAMPLE RECEIVING

Phone#: (530)297-4800

wgt(lbs): 1

Reference: SUB SAMPLES

Reference 2: KIFF CLASS CODE 600

Ship To Company:

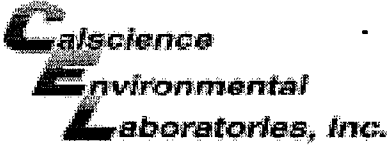
CALSCIENCE ENVIRONMENTAL LABS
7440 LINCOLN WAY
GARDEN GROVE, CA 92841
SAMPLE RECEIVING (714)895-5494

Service: **S**

Sort Code: **ORG**

Special Services:

Signature Required



WORK ORDER #: 11-01-1681

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Kiff

DATE: 01/27/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.1 °C + 0.5°C (CF) = 3.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: AP

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: AP

Sample _____ No (Not Intact) Not Present Initial: AP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} 250 _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** PL

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** PL

ATTACHMENT F
TREND ANALYSIS

ATTACHMENT F TREND ANALYSIS

Arctos conducted a statistical trend analysis of historical groundwater monitoring data for groundwater wells with petroleum hydrocarbon impacts above the Regional Water Quality Control Board, San Francisco Bay Region's (RWQCB), Environmental Screening Levels (ESLs). The objective of the analysis was to determine if there were any statistically significant trends in the total petroleum hydrocarbons as gasoline (TPHg), benzene, methyl tert-butyl ether (MTBE), or tert-butyl alcohol (TBA) results that would require additional remedial activities. In accordance with U.S. Environmental Protection Agency (EPA) guidance for data quality evaluation, a Mann-Kendall nonparametric trend test was used to identify decreasing, stable, or increasing concentration trends at individual wells and, by extension, identify a decreasing, stable, or increasing plume within a 95 percent confidence interval (EPA, 2000). The results of the trend analysis are summarized in the following table.

Well	Number of Sampling Events	Trend			
		TPHg	Benzene	MTBE	TBA
Onsite Wells					
MW-1	75	Decreasing	Below ESL	Decreasing	Below ESL
MW-3R	26	Decreasing	Decreasing	Decreasing	Decreasing
RW-1	61	Decreasing	Decreasing	Decreasing	Below ESL
RW-2	26	Decreasing	Below ESL	Below ESL	Below ESL
PT-1	11	Below ESL	Below ESL	Stable	Below ESL
Offsite Wells					
MW-10	74	Decreasing	Below ESL	Below ESL	Below ESL
MW-11	66	Decreasing	Below ESL	Below ESL	Below ESL

All of the onsite groundwater monitoring wells with concentrations above the ESLs show decreasing trends for TPHg, benzene, MTBE, and TBA, except for well PT-1. Well PT-1 shows a stable trend for MTBE over the past 11 monitoring events (since September 2008), with concentrations steadily decreasing since February 2010. Both offsite wells MW-10 and MW-11 show decreasing trends for TPHg.

Reference

U.S. Environmental Protection Agency (EPA), 2000. *Practical Methods for Data Analysis, EPA QA/G-9, QA00 Update*, July.

ATTACHMENT G
OXYGEN INJECTION PERFORMANCE MONITORING

TABLE G-1

OXYGEN INJECTION PERFORMANCE MONITORING
TESORO - SAN LORENZO, 67107

Well	Sample Date	DO ^(a) (mg/l)	ORP ^(a) (mV)	Temperature ^(a) (°F)	pH ^(a)	Conductivity ^(a) (µS/cm)
OS-1 ^(b)	10/8/08	0.20	-26	68.54	6.8	799
	1/29/09	0.48	170	65.66	7.2	773
	3/5/09	12.54	180	67.78	7.21	607
	3/25/09	-- ^(c)	161	66.87	7.45	577
	4/14/09	16.3	106	66.56	8.3	736
	4/24/09	35.89	180	66.62	7.38	588
	5/21/09	38.57	192	66.87	7.51	496
	6/19/09	36.58	150	66.92	7.39	655
	7/1/09	>20.0	-4	68.72	7.9	735
	7/16/09	19.60	225	67.47	7.42	454
	8/11/09	35.98	201	67.08	7.48	358
	11/16/09	38.93	--	68.19	7.49	500
	1/28/10	40.59	--	67.35	7.48	338
	2/26/10	15.20	--	67.6	--	--
OS-2 ^(b)	1/29/09	0.31	82	67.28	7.6	789
	3/5/09	5.10	99	68.46	7.63	624
	3/25/09	--	132	67.93	7.85	587
	4/14/09	16.40	118	66.56	8.5	750
	4/24/09	34.51	168	67.42	7.33	699
	5/21/09	35.69	267	67.39	7.37	585
	6/19/09	33.77	156	67.29	7.38	734
	7/1/09	>20.0	1	70.7	8.3	743
	7/16/09	10.77	235	67.44	7.4	501
	8/11/09	36.44	128	67.62	7.8	370
	11/16/09	41.43	--	69.12	7.71	536
	1/28/10	37.96	--	68.29	7.68	353
	2/26/10	22.09	--	65.5	--	--
OS-3 ^(b)	10/8/09	0.40	-299	71.78	7	1,086
	1/29/09	0.24	-167	70.34	7.2	973
	3/5/09	11.19	86	69.93	7.16	876
	3/25/09	--	74	69.14	7.65	809
	4/14/09	17.90	129	66.74	8.2	751
	4/24/09	37.67	64	68.67	7.54	838

TABLE G-1

OXYGEN INJECTION PERFORMANCE MONITORING
TESORO - SAN LORENZO, 67107

Well	Sample Date	DO ^(a) (mg/l)	ORP ^(a) (mV)	Temperature ^(a) (°F)	pH ^(a)	Conductivity ^(a) (µS/cm)
OS-3 ^(b) (cont.)	5/21/09	37.51	98	68.62	7.53	702
	6/19/09	36.34	68	68.65	7.51	899
	7/1/09	>20.0	-93	69.8	8.0	992
	7/16/09	30.00	228	69.02	7.51	612
	8/11/09	--	--	--	--	--
	11/16/09	37.75	--	71.16	7.28	662
	1/28/10	40.19	--	70.34	7.43	508
	2/26/10	35.77	--	69.9	--	--
OS-4 ^(b)	10/8/08	0.50	-62	69.08	6.8	971
	1/29/09	0.28	65	69.8	7.5	815
	3/5/09	12.47	121	69.07	7.35	668
	3/25/09	--	147	68.51	7.84	606
	4/14/09	20.10	128	68	8	1,010
	4/24/09	38.41	134	67.92	7.77	598
	5/21/09	38.63	294	67.87	7.89	496.8
	6/19/09	36.70	174	67.78	7.79	668
	7/1/09	>20.0	28	69.98	8.3	759
	7/16/09	31.06	241	68.06	7.8	468
	8/11/09	--	--	--	--	--
	11/16/09	43.85	--	70.29	7.39	550
	1/28/10	42.48	--	69.33	7.72	377
	2/26/10	28.84	--	68.9	--	--
PT-1	10/8/08	0.20	-42	70.52	7	1,271
	1/29/09	0.26	5	69.44	7.5	925
	3/5/09	0.37	75	69.36	7.27	667
	3/25/09	--	133	68.97	7.34	611
	4/14/09	0.40	90	66.74	8.1	776
	4/24/09	0.50	162	68.46	7.22	625
	5/21/09	0.40	218	68.75	7.44	520
	6/19/09	0.21	161	66.11	7.3	1,246
	7/1/09	1.10	43	70.52	7.9	832
	7/16/09	0.76	138	68.23	7.49	471

TABLE G-1

OXYGEN INJECTION PERFORMANCE MONITORING
TESORO - SAN LORENZO, 67107

Well	Sample Date	DO ^(a) (mg/l)	ORP ^(a) (mV)	Temperature ^(a) (°F)	pH ^(a)	Conductivity ^(a) (µS/cm)
PT-1 (cont.)	8/11/09	--	--	--	--	--
	11/16/09	0.41	--	68.73	7.12	534
	1/28/10	0.79	--	69.62	7.45	386
	2/26/10	--	--	--	--	--
	3/3/10	0.05	--	68.92	7.38	725
	3/5/10	0.27	--	68.9	7.37	--
	3/10/10	1.44	--	68.84	7.22	--
	3/17/10	1.65	--	68.79	7.17	--
	3/31/10	3.26	-25	68.64	7.17	758
	4/16/10	0.04	-105	68.46	7.34	716
	4/26/10	5.37	-112	68.35	7.18	760
	5/10/10	5.48	-62	68.21	7.08	810
	7/30/10	6.65	-10	68.13	7.2	754
	8/27/10	1.18	-50	68.18	7.16	771
	9/10/10	1.90	80	68.18	7.13	764
	10/28/10	3.55	-10	68.72	7.34	739
	11/10/10	4.53	52	68.58	7.24	748
	12/15/10	2.08	-12	68.80	7.17	773
	1/28/11	0.34	-125	69.06	7.14	742
	2/16/11	0.24	-168	68.97	7.14	742
3/10/11	0.67	-29	68.91	7.16	743	
RW-1	1/28/10	0.50	--	69.75	7.34	412
	2/26/10	0.27	--	69.3	--	--
	3/3/10	0.04	--	68.34	6.92	772
	3/5/10	0.03	--	68.45	6.90	--
	3/10/10	1.77	--	68.48	6.83	--
	3/17/10	1.47	--	68.42	6.77	--
	3/31/10	3.18	-15	68.4	6.68	799
	4/16/10	1.17	-149	68.27	6.79	760
	4/26/10	7.10	-85	68.22	6.61	795
	5/10/10	8.39	-45	68.1	6.64	799
	7/30/10	0.01	-330	68.1	6.61	895

TABLE G-1

OXYGEN INJECTION PERFORMANCE MONITORING
TESORO - SAN LORENZO, 67107

Well	Sample Date	DO ^(a) (mg/l)	ORP ^(a) (mV)	Temperature ^(a) (°F)	pH ^(a)	Conductivity ^(a) (µS/cm)
RW-1 (cont.)	8/27/10	0.01	-60	68.07	6.61	861
	9/10/10	0.01	70	68.01	6.67	838
	10/28/10	0.13	0	68.13	7.02	815
	11/10/10	0.01	-174	68.16	6.99	779
	12/15/10	0.01	-277	68.35	6.99	800
	1/28/11	0.01	-412	68.6	6.70	816
	2/16/11	0.01	-444	68.54	6.59	891
	3/10/11	0.01	-247	68.58	6.64	824
RW-2	10/8/08	0.30	-86	69.26	6.5	901
	1/29/09	0.53	-49	68.36	7	799
	3/5/09	0.19	87	67.9	7.21	620
	3/25/09	--	131	67.43	7.19	555
	4/14/09	0.50	13	67.1	8.1	734
	4/24/09	0.66	174	66.94	7.04	614
	5/21/09	0.34	229	67.06	7.14	558
	6/19/09	0.51	125	66.93	6.99	827
	7/1/09	0.80	-15	69.8	7.7	836
	7/16/09	0.34	206	66.98	7.12	546
	8/11/09	0.31	-29	66.99	7.17	458
	11/16/09	--	--	--	--	--
	1/28/10	1.37	--	67.86	7.39	346
	2/26/10	0.33	--	67.7	--	--
	3/3/10	0.04	--	68.34	6.92	772
	3/5/10	5.37	--	67.59	7.25	--
	3/10/10	6.72	--	67.55	7.17	--
	3/17/10	1.62	--	67.46	6.81	--
	3/31/10	1.03	-72	67.05	6.81	610
	4/16/10	0.04	-348	67.07	7.18	654
4/26/10	0.11	-203	66.92	6.97	865	
5/10/10	0.80	-149	66.76	6.94	973	
7/30/10	0.00	-370	67	6.92	926	
8/27/10	0.16	-100	67.18	6.93	895	

TABLE G-1

**OXYGEN INJECTION PERFORMANCE MONITORING
TESORO - SAN LORENZO, 67107**

Well	Sample Date	DO ^(a) (mg/l)	ORP ^(a) (mV)	Temperature ^(a) (°F)	pH ^(a)	Conductivity ^(a) (µS/cm)
RW-2 (cont.)	9/10/10	0.01	60	67.25	6.93	873
	10/28/10	0.96	-30	67.72	7.03	737
	11/10/10	1.33	17	67.75	6.96	803
	12/15/10	0.01	-387	67.93	7.14	724
	1/28/11	0.01	-345	68.01	6.99	715
	2/16/11	0.01	-391	67.96	6.98	760
	3/10/11	1.15	-82	67.67	7.07	704
MW-3R	11/16/09	1.38	-190	69.38	6.94	644
	1/28/10	0.29	--	69.92	7.33	424
	2/26/10	0.44	--	69.5	--	--
	3/3/10	0.04	--	69.19	7.04	817
	3/5/10	0.03	--	69.18	7.01	--
	3/10/10	0.04	--	69.07	7.04	--
	3/17/10	0.01	--	68.95	7.00	--
	3/31/10	0.06	-193	68.71	7.03	807
	4/16/10	0.11	-431	68.46	7.07	812
	4/26/10	0.01	-463	68.33	6.99	831
	5/10/10	0.00	-450	68.24	6.95	821
	7/30/10	0.00	-420	68.31	6.89	981
	8/27/10	0.01	-130	68.42	6.8	1,034
	9/10/10	0.01	20	68.44	6.85	1,011
	10/28/10	5.06	-30	69.08	6.93	928
	11/10/10	0.01	-395	69.01	6.79	1,027
	12/15/10	0.01	-407	69.23	6.91	906
	1/28/11	0.01	-414	69.42	7.03	827.2
2/16/11	0.01	-497	69.28	7.03	822.1	
3/10/11	0.01	-293	69.09	7.00	800.9	

(a) Parameters measured in the field using a dowhole instrument; dissolved oxygen (DO) reported milligrams per liter (mg/l); oxidation reduction potential (ORP) reported in millivolts (mV); temperature reported in degrees fahrenheit (°F); and conductivity measured in microsiemens per centimeter (µS/cm).

(b) No measurement collected.

ATTACHMENT H
WASTE MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address <i>Tesoro 67107 44 Lewelling Blvd San Lorenzo, CA</i>							
4. Generator's Phone ()		5. Transporter 1 Company Name <i>Confluence Environmental</i>		6. US EPA ID Number		A. State Transporter's ID	
						B. Transporter 1 Phone <i>916-760-7641</i>	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <i>Instreet 1105 Airport Rd Rio Vista, CA</i>		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone <i>707-374-3834</i>	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Unit Wt./Vol.
				No. Type			
a. <i>Non Haz Purgewater</i>				1		<i>poly</i>	<i>360 gal</i>
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name				Signature		Date	
						Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name <i>Eric Morse</i>				<i>[Signature]</i>		Month Day Year <i>1 25 11</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <i>FSL P. Mohan</i>				Signature <i>[Signature]</i>		Date	
						Month Day Year <i>3 15 11</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

