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29 March 2013

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

**Subject: Report Submittal**  
**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 requested reports requested in your letter dated 31 December 2012 for the subject site located at 44 Lewelling Boulevard in San Lorenzo, California. The following reports are being submitted by Arctos Environmental on behalf of Tesoro Environmental Resources Company:

- Second Quarter 2011 Semiannual Groundwater Monitoring Report
- Fourth Quarter 2011 Semiannual Groundwater Monitoring Report
- Second Quarter 2012 Semiannual Groundwater Monitoring Report
- Request for Closure and Fourth Quarter 2012 Groundwater Monitoring Report

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,

A handwritten signature in blue ink, appearing to read "Jeffrey M. Baker".

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

Attachments

CC: Arctos – Michael Purchase



Arctos Environmental  
✓ 2332 5th Street, Suite A 510 525-2180 PHONE  
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29 March 2013  
Project No. 01ZO

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

**Subject: Request for Closure and  
Fourth Quarter 2012 Semiannual Groundwater Monitoring 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 case closure request for the subject site. The information presented below supports this request for closure and includes the site background, summary of investigations and remediation, and fourth quarter 2012 groundwater monitoring results.

### **Executive Summary**

Arctos has prepared this request for closure based on the results of semiannual groundwater monitoring conducted on 2 January 2013 and a review of State Water Resources Control Board (SWRCB) Low-Threat Underground Storage Tank (UST) Case Closure Policy. Total petroleum hydrocarbons as gasoline (TPHg), benzene, methyl tert-butyl ether (MTBE), and tert-butyl alcohol (TBA) 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 3 years of monitoring. A comparison of current and historical maximum hydrocarbon concentrations show a decrease of over 99 percent on site and 89 to 100 percent off site.

### **Site Background**

The site is currently an operating service station located on Lewelling Boulevard, near the southeast corner of the intersection of Via Granada and Lewelling Boulevard in San

Lorenzo, California (Figure 1). The site was owned by Conoco until it was purchased by Ultramar Inc. (Ultramar) in July 1990. On 17 May 2002, Tesoro purchased the site from Ultramar. The station contains three USTs with three dispenser islands. Figure 2 shows the site plan.

### Previous Investigations

On 28 April 1987, two 10,000-gallon tanks and one 7,500-gallon tank were excavated and removed during tank replacement activities. Petroleum hydrocarbons were found in soil samples collected from the bottom of the tank pit at approximately 16 feet below ground surface (bgs). Three new 10,000-gallon tanks were installed in the western portion of the site. Following tank installation, Applied GeoSystems (AGS) installed three onsite groundwater monitoring wells (MW-1 through MW-3) near the USTs. Hydrocarbon-impacted soil and groundwater were encountered during monitoring well installation.

In December 1988, DuPont Environmental Services (DuPont) installed monitoring wells MW-4 through MW-7 on and off site, and drilled soil boring B-1 approximately 20 feet southwest of the tank pit to a depth of 37 feet bgs. Hydrocarbons were detected in soil at boring B-1. In September 1989, DuPont installed offsite monitoring wells MW-8 and MW-9, located south and west of the site.

In October 1991, RESNA Industries Inc. (RESNA) installed one boring (RW- 1) on site and two borings (MW-10 and MW-11) downgradient of the site. TPHg, and benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected at boring RW-1. Borings MW-10 and MW-11 were completed as groundwater monitoring wells and boring RW-1 was completed as a groundwater recovery well.

In September 2004, RDM replaced monitoring well MW-3 with recovery well MW-3R and installed recovery well RW-2 on site. Soil samples were collected during well installation and the maximum TPHg concentration of 11 milligrams per kilogram (mg/kg) was detected at RW-2. RDM also installed monitoring well MW-12 and three soil borings (DP-1 through DP-3) downgradient of the site in June 2007.

TPHg, BTEX, and MTBE were not detected in soil samples collected in 2008 during the installation of oxygen injection wells OS-1 through OS-4 by Arctos.

### Remediation Activities

Soil and groundwater remediation systems were installed from April 1993 to December 1995 at the site. Groundwater extraction began in April 1993, soil vapor extraction (SVE) began in March 1994, and air sparging of groundwater began in December 1995. Approximately 1,184,000 gallons of groundwater were removed, treated, and discharged

using groundwater extraction, and approximately 103 gallons of TPHg were removed using vapor extraction before the systems were shut down in January 1997.

The remediation systems were restarted in 2000 to further remediate soil and groundwater at the site. From April 2000 to November 2003, the SVE system removed a total of approximately 211 pounds of TPHg. The SVE and air sparge systems reached the limit of their effectiveness and operation of the system was stopped in 2003 as no measurable concentrations of TPHg or BTEX were detected in the influent of the SVE system. From October 2000 to March 2008, the groundwater extraction system removed, treated, and discharged approximately 7,040,000 gallons of groundwater. Arctos conducted a constant rate pump test at well MW-3R to analyze the capture zone of the groundwater extraction wells at the site. Based on low transmissivity and low groundwater extraction rates, it was concluded that the groundwater extraction system was not sufficient for reducing concentrations on site and the system was shut down in March 2008.

In 2008, oxygen injection wells OS-1 through OS-4 were installed in the western portion of the site and the oxygen injection system was initiated on 5 March 2009. 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 observations wells PT-1 and RW-2 through March 2010. On 3 March 2010, Arctos started injecting oxygen gas directly into the existing injection wells. After 10 months of operation, DO concentrations remained above 1 mg/l at downgradient well PT-1. Based on the monitoring results and significant concentration decreases, Arctos stopped oxygen injection on 15 May 2011.

### **Groundwater Monitoring**

Arctos's subcontractor, Confluence Environmental, Inc. (Confluence), of Sacramento, California, performed the semiannual groundwater monitoring event on 2 January 2013 due to a delay in the field program. Samples were collected from wells MW-1, MW-3R, MW-10, MW-11, RW-1, RW-2, and PT-1 (Figure 2). Groundwater monitoring was performed in accordance with the approved monitoring plan, Regional Water Quality Control Board guidelines, and the quality assurance/quality control (QA/QC) procedures in Attachment A. Field data sheets are in Attachment B.

Quarterly groundwater monitoring was performed since 1987 and historical results are in Attachments C and D.

### **Analytical Program**

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

### Fourth Quarter 2012 Groundwater Monitoring Results

Groundwater elevations were recorded at approximately 30.0 to 31.4 feet above mean sea level (13.4 to 17.7 feet below ground surface; Table 1). Water elevations decreased between 0.4 and 0.8 feet since June 2012. Water level data indicate that the general direction of water flow is toward the southwest with an estimated gradient of 0.004 (1 foot/250 feet; Figure 2). January 2013 groundwater elevations and gradient were generally consistent with historical data (Attachment C).

The highest TPHg concentration of 2,200 micrograms per liter (µg/l) was at offsite well MW-10. Well MW-3R had the highest onsite TPHg concentration of 240 µg/l. Only onsite well MW-3R had benzene and MTBE concentrations (15 and 6.1 µg/l, respectively) above the ESLs of 1 and 5 µg/l, respectively. Benzene, MTBE, and TBA were below the ESLs for offsite wells during the semiannual monitoring event and have been since July 2009.

Concentrations of TPHg, benzene, and MTBE on site have decreased over 99 percent following remediation activities, which began in 1993. Offsite hydrocarbon concentrations have decreased by 89 to 100 percent due to natural attenuation and reduced mass flux from site remediation. The following table compares the current sampling results with maximum historical concentrations reported on and off site.

Well	Event	TPHg (µg/l)	Benzene (µg/l)	MTBE (µg/l)
<b>Onsite Well</b>				
MW-3R	Maximum (date)	160,000 (5/15/92)	17,000 (12/14/94)	2,800 (11/14/02)
	Current	240	15	6.1
	<b>Reduction</b>	<b>99.9%</b>	<b>99.9%</b>	<b>99.8%</b>
<b>Offsite Well</b>				
MW-10	Maximum (date)	20,000 (3/31/98)	100 (2/28/92)	860 (2/26/01)
	Current	2,200	nondetect	nondetect
	<b>Reduction</b>	<b>89.0%</b>	<b>100%</b>	<b>100%</b>

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.

### **Low-Threat Case Evaluation**

Based on the current groundwater conditions and decreasing hydrocarbon trends, Arctos is recommending that the site be closed. The site meets the criteria established in the SWRCB Low-Threat UST Case Closure Policy Checklist. The criteria are listed below with the applicable information to provide justification for site closure. Attachment F is a SWRCB low-threat UST case closure policy checklist completed for the subject site.

#### General Criteria

1. *The unauthorized release is located within the service area of a public water system.*

Criterion met – The site lies in the service area of the East Bay Municipal Utility District. Downgradient irrigation wells were identified and sampled in May 2007 and results were below detection levels for petroleum hydrocarbons (RDM, 2007).

2. *The unauthorized release consists only of petroleum.*

Criterion met – The unauthorized release was the result of leaking petroleum-containing USTs and related piping at a former gasoline service station.

3. *The unauthorized (“primary”) release from the UST system has been stopped.*

Criterion met – On 28 April 1987, two 10,000-gallon tanks and one 7,500-gallon tank were excavated and removed during tank replacement activities. Petroleum hydrocarbons were found in soil samples collected from the bottom of the tank pit at approximately 16 feet below grade. The product piping, dispensers, and tank connections were upgraded in 2001.

4. *Free product has been removed to the maximum extent practicable.*

Criterion met – Free product has not been detected at the site. In January 2013, the maximum onsite TPHg concentration was 240 µg/l at well MW-3R.

5. *A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.*

Criterion met – Tesoro’s understanding of the nature, extent, and mobility of the release was developed during the previous 25 years of site investigation and remediation, and has been described in quarterly reports submitted to ACEH (RDM, 2006).

6. *Secondary source has been removed to the extent practicable.*

Criterion met – Petroleum-impacted soil and groundwater located at or immediately beneath the point of release from the primary source have been removed over a 15-year period. As described above, Tesoro employed groundwater extraction, SVE, air sparge, and oxygen injection to reduce onsite groundwater concentrations by over 99 percent.

7. *Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15.*

Criterion met – Soil and groundwater at the site have been tested for MTBE; results have been submitted and are known to ACEH.

8. *Nuisance as defined by Water Code section 13050 does not exist at the site.*

Criterion met – The condition at the site is not / does not (a) injurious to health, indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; (b) affect an entire community, neighborhood, or any considerable number of persons, and (c) occur during, or as a result of, the treatment or disposal of wastes.

#### Media-Specific Criteria

1. *Groundwater*

Criterion met – The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent (refer to Figures 6A through 6G - dissolved hydrocarbons over time). In addition, the contaminant plume that exceeds water quality objectives meets all of the additional characteristics of site class 2: (a) the contaminant plume that exceeds water quality objectives is less than 250 feet in length; (b) there is no free product; (c) the nearest existing water supply well or surface water body is greater

than 1,000 feet from the defined plume boundary; and (d) the dissolved concentration of benzene is less than 3,000 µg/l and the dissolved concentration of MTBE is less than 1,000 µg/l. San Lorenzo Creek is located approximately 100 feet downgradient of the defined plume boundary; although, San Lorenzo Creek has a concrete lined channel downgradient of the site, limiting any connection to groundwater. In addition, the furthest downgradient monitoring well (MW-11) has shown decrease concentrations and has remained below water quality objectives since April 2011.

### 2. *Petroleum Vapor Intrusion to Indoor Air*

Criterion met – The site is an active commercial fueling station. The current maximum benzene concentration is below 100 µg/l on site and not detected downgradient.

### 3. *Direct Contact and Outdoor Air Exposure*

Criterion met – In 2008, Arctos collected soil samples at the former source area during installation of oxygen injection wells OS-2 through OS-4. TPHg and BTEX were not detected any samples collected from 6 to 10 feet below grade and indicate the maximum concentrations of petroleum constituents in soil are less than residential screening levels presented in SWRCB Resolution No. 2012-0016 Table 1 *Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health*.

## **Conclusions and Recommendations**

Results of the investigation and remediation activities and groundwater sampling indicate the following:

- Petroleum hydrocarbon impacts have been delineate
- Soil sampling in 2008 indicate no detectable hydrocarbon concentrations
- Offsite benzene and MTBE concentrations have remained below ESLs since the third quarter 2006 and second quarter 2009 sampling events, respectively
- Petroleum hydrocarbon compounds have decreased by over 99 percent on site and 89 to 100 percent off site.



Based on these results, Arctos concludes that the site meets the SWQCB's requirements for a low-threat groundwater case and is recommending site closure.

If you have questions or comments, please call Mike Purchase at 510/525-2180.

Very truly yours,

**ARCTOS ENVIRONMENTAL**



Michael P. Purchase, P.E.  
Vice President



Copy: Jeffrey M. Baker – Tesoro Companies, Inc.

Attachments: Table 1 – Well and Groundwater Elevations  
Table 2 – Groundwater 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 – Completed State Water Resources Control Board Low-Threat  
Underground Storage Tank (UST) Case Closure Policy Checklist  
Attachment G – Waste Manifests

## References

RDM Environmental, Inc., 2006. *Fourth Quarter 2005 Groundwater Monitoring/Remediation Status Report and Site Conceptual Model Update, Tesoro Station No. 67107*. 31 March.

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RDM Environmental, Inc., 2007. *Second Quarter 2007 Groundwater Monitoring/Remediation Status Report, Tesoro Station No. 67107*, 15 August.

**TABLE 1**

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

<b>Well No.</b>	<b>Date of Measurement</b>	<b>Depth to Water (feet below casing)</b>	<b>PVC Casing Elevation<sup>(a)</sup> (feet MSL)</b>	<b>Water Table Elevation<sup>(b)</sup> (feet MSL)</b>
MW-1	4/5/11	13.96	46.36	32.40
	10/31/11	16.47		29.89
	6/13/12	15.90		30.46
	1/2/13	15.26		31.10
MW-2	4/5/11	12.85	45.61	32.76
	10/31/11	15.52		30.09
	6/13/12	14.91		30.70
	1/2/13	14.28		31.33
MW-3R	4/5/11	12.72	45.16	32.44
	10/31/11	15.30		29.86
	6/13/12	14.77		30.39
	1/2/13	14.13		31.03
MW-4	4/5/11	14.95	47.36	32.41
	10/31/11	17.45		29.91
	6/13/12	14.92		32.44
	1/2/13	16.30		31.06
MW-5	4/5/11	13.84	46.50	32.66
	10/31/11	16.48		30.02
	6/13/12	15.87		30.63
	1/2/13	15.20		31.30
MW-6	4/5/11	12.25	45.17	32.92
	10/31/11	16.19		28.98
	6/13/12	14.53		30.64
	1/2/13	13.78		31.39
MW-7	4/5/11	11.96	44.24	32.28
	10/31/11	14.64		29.60
	6/13/12	14.03		30.21
	1/2/13	13.39		30.85
MW-8	4/5/11	13.02	44.95	31.93
	10/31/11	15.64		29.31
	6/13/12	15.05		29.90
	1/2/13	14.42		30.53

**TABLE 1**

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

<b>Well No.</b>	<b>Date of Measurement</b>	<b>Depth to Water (feet below casing)</b>	<b>PVC Casing Elevation<sup>(a)</sup> (feet MSL)</b>	<b>Water Table Elevation<sup>(b)</sup> (feet MSL)</b>
MW-9	4/5/11	15.50	47.65	32.15
	10/31/11	17.87		29.78
	6/13/12	17.29		30.36
	1/2/13	16.75		30.90
MW-10	4/5/11	13.40	45.04	31.64
	10/31/11	15.70		29.34
	6/13/12	15.13		29.91
	1/2/13	14.62		30.42
MW-11	4/5/11	16.67	47.69	31.02
	10/31/11	18.62		29.07
	6/13/12	18.11		29.58
	1/2/13	17.67		30.02
MW-12	4/5/11	15.60	47.27	31.67
	10/31/11	17.75		29.52
	6/13/12	17.29		29.98
	1/2/13	16.74		30.53
RW-1	4/5/11	13.43	45.86	32.43
	10/31/11	16.02		29.84
	6/13/12	15.49		30.37
	1/2/13	14.85		31.01
RW-2	4/5/11	14.13	46.40	32.27
	10/31/11	16.59		29.81
	6/13/12	16.02		30.38
	1/2/13	15.43		30.97
OS-1	1/25/11	16.53	47.19	30.66
OS-2	1/25/11	16.15	46.79	30.64
OS-3	1/25/11	14.94	45.68	30.74
OS-4	1/25/11	15.34	46.02	30.68

**TABLE 1**

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

<b>Well No.</b>	<b>Date of Measurement</b>	<b>Depth to Water (feet below casing)</b>	<b>PVC Casing Elevation<sup>(a)</sup> (feet MSL)</b>	<b>Water Table Elevation<sup>(b)</sup> (feet MSL)</b>
PT-1	4/5/11	14.20	46.48	32.28
	10/31/11	16.69		29.79
	6/13/12	16.09		30.39
	1/2/13	15.73		30.75

- (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**

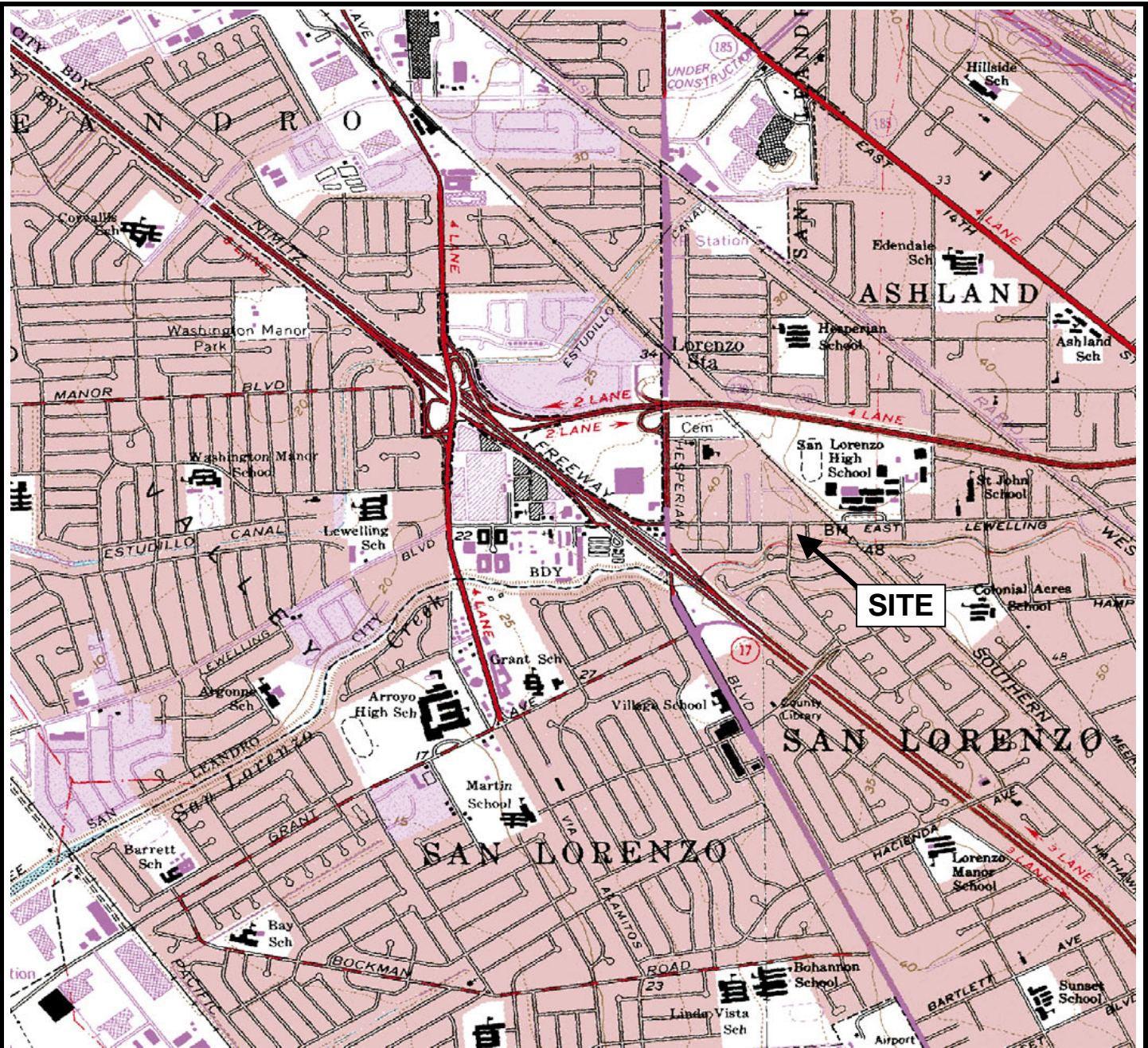
Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-1	4/5/11	63	ND<0.5 <sup>(e)</sup>	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/31/11	ND<50	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
	6/13/12	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.98	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/2/13	100	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
MW-2	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
	4/5/11	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
	6/13/12	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	4/6/11	980	71	1.2	43	14.0	14	ND<0.5	ND<0.5	ND<0.5	11
	10/31/11	1,200	83	1.1	24	4.8	16	ND<0.5	ND<0.5	ND<0.5	14
	6/13/12	1,300	70	1.4	23	4.4	14	ND<0.5	ND<0.5	ND<0.5	16
	1/2/13	240	15	ND<0.5	6.0	0.95	6.1	ND<0.5	ND<0.5	ND<0.5	13
MW-4	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
	4/5/11	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
	6/13/12	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	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<5	
MW-6	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
	4/6/11	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
	6/13/12	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	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
	4/5/11	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
	6/13/12	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	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<5	
MW-9	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	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
	4/5/11	4,000	ND<0.5	0.55	34.0	11	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	6/13/12	4,000	ND<0.5	ND<0.5	1.3	3.3	0.56	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/2/13	2,200	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
MW-11	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
	4/5/11	250	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
	6/13/12	76	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
	1/2/13	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.62	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-12	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
	4/5/11	53	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
	6/13/12	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 2

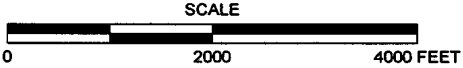
**GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
RW-1	4/5/11	410	26	0.52	7.6	3.9	8.3	ND<0.5	ND<0.5	ND<0.5	8.1
	10/31/11	100	1.3	ND<0.5	ND<0.5	ND<0.5	8.5	ND<0.5	ND<0.5	ND<0.5	9.2
	6/13/12	120	2.3	ND<0.5	0.5	ND<0.5	8	ND<0.5	ND<0.5	ND<0.5	11
	1/2/13	ND<50	0.79	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<5
RW-2	4/6/11	280	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
	10/31/11	310	ND<0.5	ND<0.5	0.53	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	6/13/12	190	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
	1/2/13	290	ND<0.5	ND<0.5	0.90	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
OS-1	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	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	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	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	4/6/11	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	ND<5
	10/31/11	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
	6/13/12	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	ND<5
	1/2/13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.6	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 (mg/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**

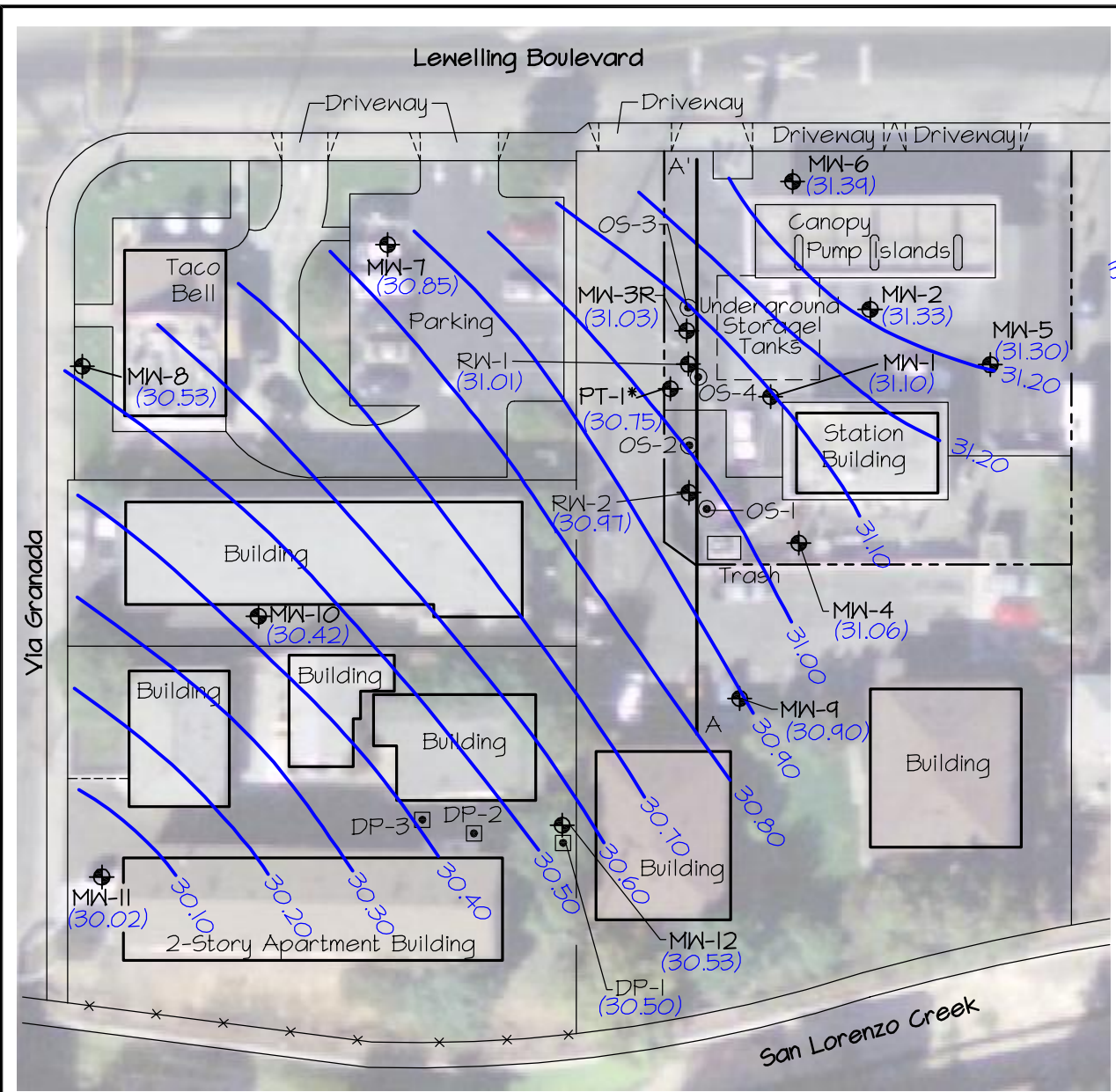


**REFERENCE**  
 7.5 MINUTE USGS TOPOGRAPHIC MAPS OF  
 SAN LEANDRO AND HAYWARD, CALIFORNIA QUADRANGLES  
 DATE: 1959, PHOTOREVISED 1980  
 SCALE = 1:24,000

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

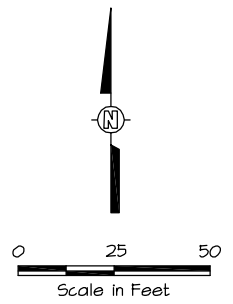


01Z011B0516.dwg  
1/24/2013 1:04PM



Legend

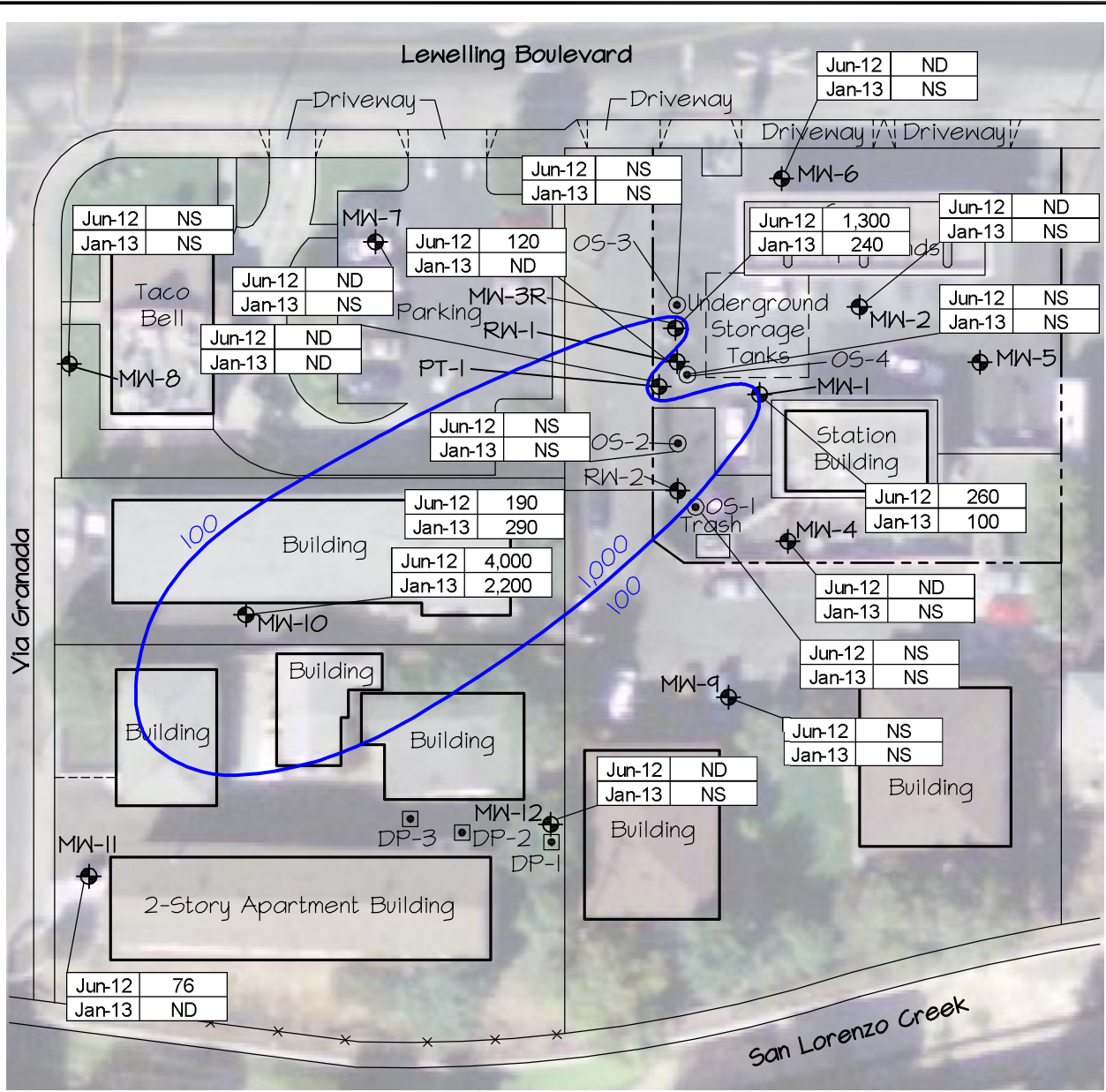
- MW-1 Monitoring Well with 2 January 2013 Groundwater Elevation (Feet MSL) (30.46)
- DP-1 Soil Boring
- OS-1 Oxygen Injection Well
- 30.60 Groundwater Elevation Contour (Feet MSL)
- \* Elevation Not Used For Contours
- A A' Geologic Cross Section AA'



ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
<b>SITE PLAN</b>			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0516.DWG		<b>FIGURE 2</b>	

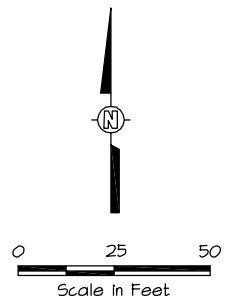
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
	13	MY	6/20/11	Second Quarter 2011 Status Report
	14	MY	12/15/11	Fourth Quarter 2011 Status Report
	15	MY	7/15/12	2Q12 Status Report and Request for Closure
	16	MY	1/24/13	Fourth Quarter 2012 Status Report

1/24/2013 4:19PM 01Z011B0216.dwg



**Legend**

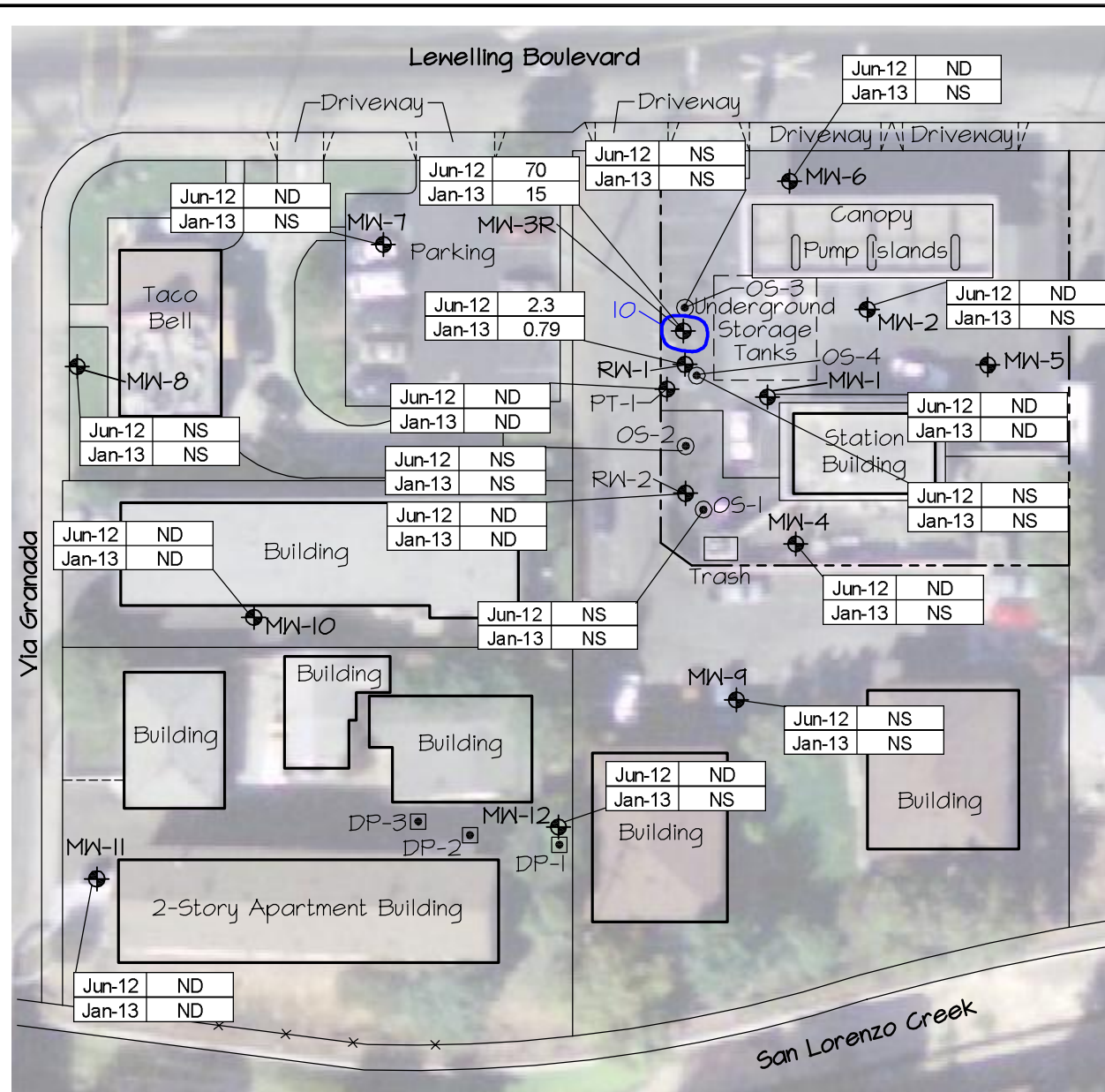
- MW-1 Monitoring Well with 13 June 2012 and 2 January 2013 Total Petroleum Hydrocarbons as Gasoline (TPHg) Results in µg/l
- DP-1 Soil Boring
- OS-1 Oxygen Injection Well
- ND Not Detected
- 100 TPHg Concentration Contour (µg/l), Queried Where Uncertain



ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
<b>TPHg CONCENTRATION CONTOURS IN GROUNDWATER</b>			
PROJECT NO. O1ZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. O1ZO11B0216.DWG		FIGURE 3	

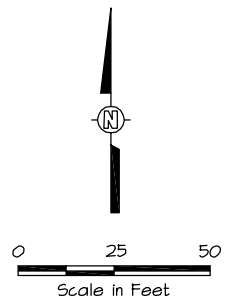
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
16	13	MY	6/20/11	Second Quarter 2011 Status Report
	14	MY	12/15/11	Fourth Quarter 2011 Status Report
	15	MY	7/15/12	Second Quarter 2012 Status Report
	16	MY	1/24/13	Fourth Quarter 2012 Status Report

01Z011B0316.dwg  
1/24/2013 4:24PM



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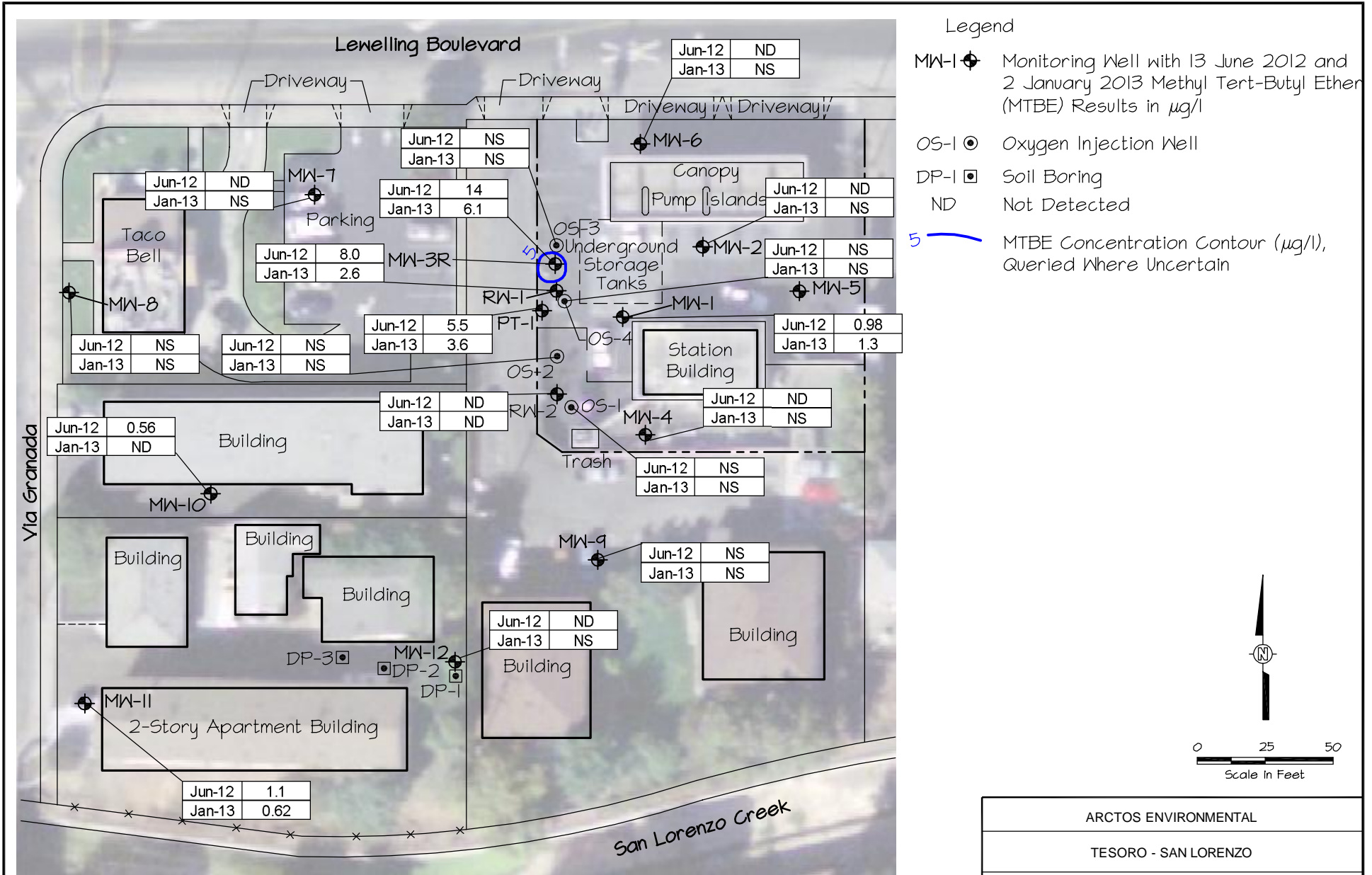
- MW-1 Monitoring Well with 13 June 2012 and 2 January 2013 Benzene Results in µg/l
- OS-1 Oxygen Injection Well
- DP-1 Soil Boring
- ND Not Detected
- 10 Benzene Concentration Contour (µg/l), Queried Where Uncertain



ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
<b>BENZENE CONCENTRATION CONTOURS IN GROUNDWATER</b>			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0316.DWG	FIGURE 4		

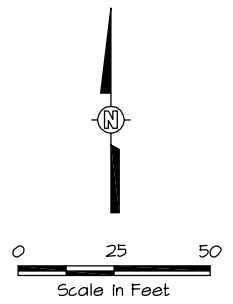
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
16	13	MY	6/20/11	Second Quarter 2011 Status Report
	14	MY	12/15/11	Fourth Quarter 2011 Status Report
	15	MY	7/15/12	Second Quarter 2012 Status Report
	16	MY	1/24/13	Fourth Quarter 2012 Status Report

1/24/2013 4:30PM 01Z011B0416.dwg



Legend

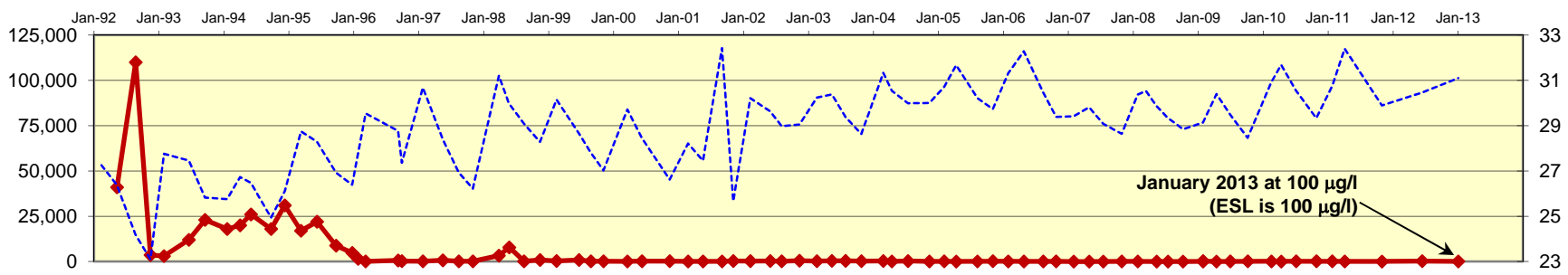
- MW-1 Monitoring Well with 13 June 2012 and 2 January 2013 Methyl Tert-Butyl Ether (MTBE) Results in µg/l
- OS-1 Oxygen Injection Well
- DP-1 Soil Boring
- ND Not Detected
- 5 MTBE Concentration Contour (µg/l), Queried Where Uncertain



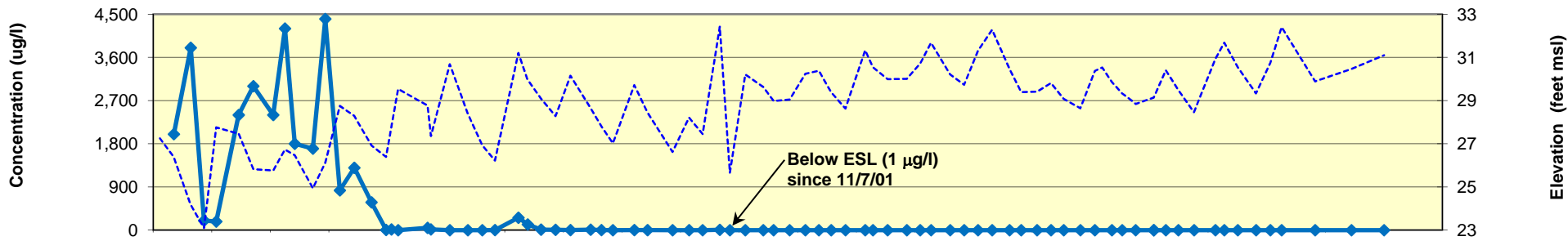
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
16	13	MY	6/20/11	Second Quarter 2011 Status Report
	14	MY	12/15/11	Fourth Quarter 2011 Status Report
	15	MY	7/15/12	Second Quarter 2012 Status Report
	16	MY	1/24/13	Fourth Quarter 2012 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
<b>MTBE CONCENTRATION CONTOUR IN GROUNDWATER</b>			
PROJECT NO. O1ZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. O1ZO11B0416.DWG	FIGURE 5		

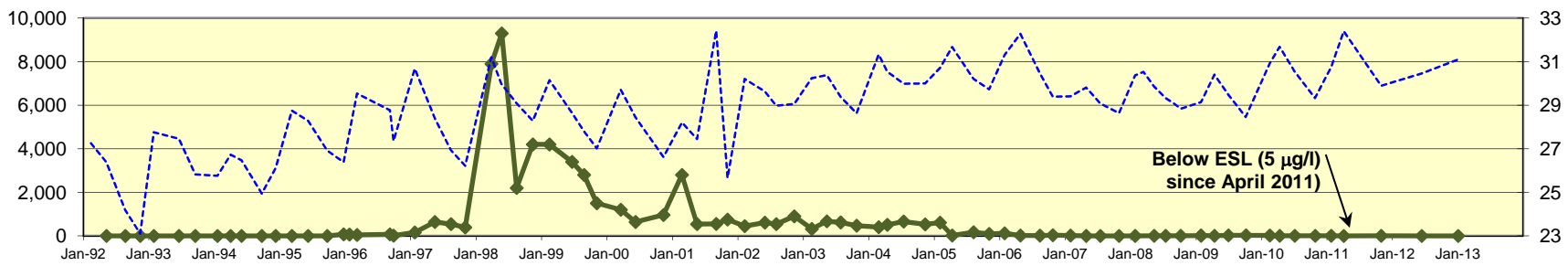
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



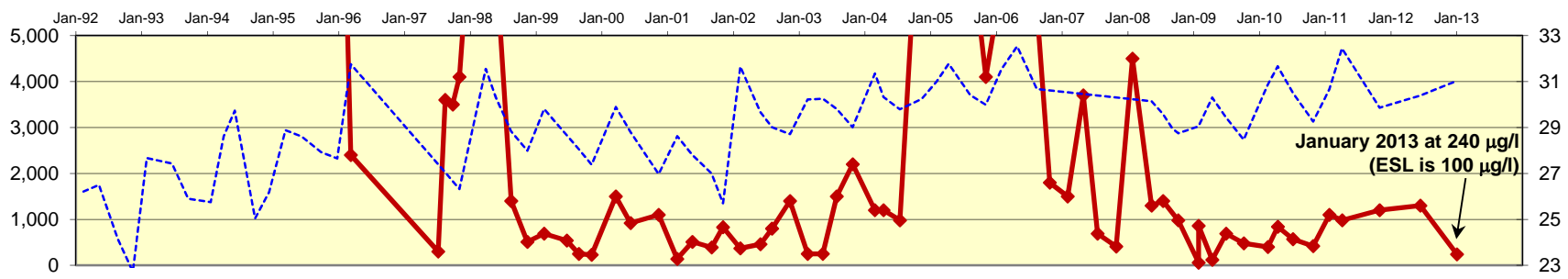
### MTBE and Groundwater Elevation



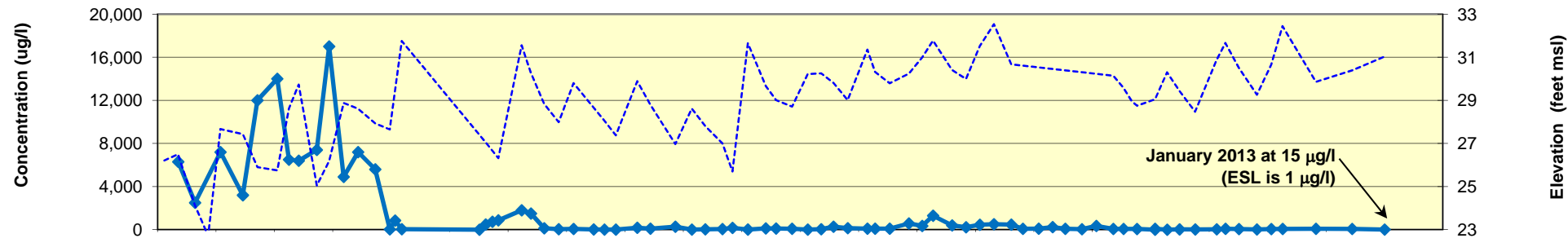
Date

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

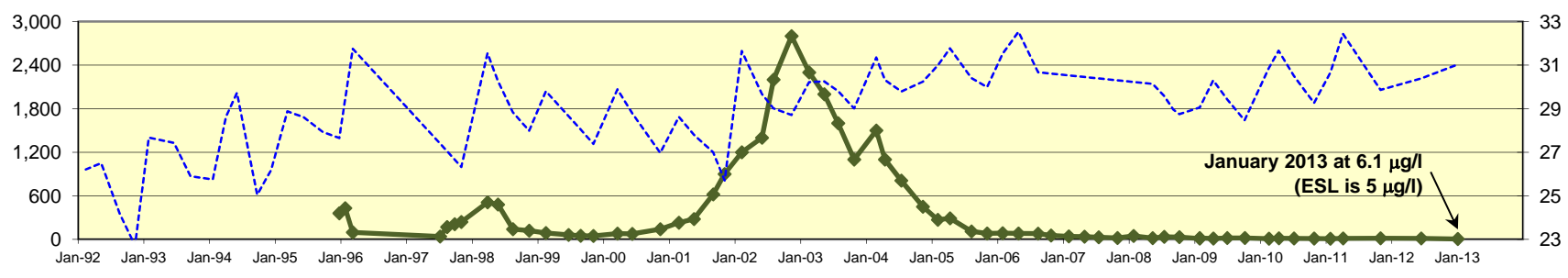
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



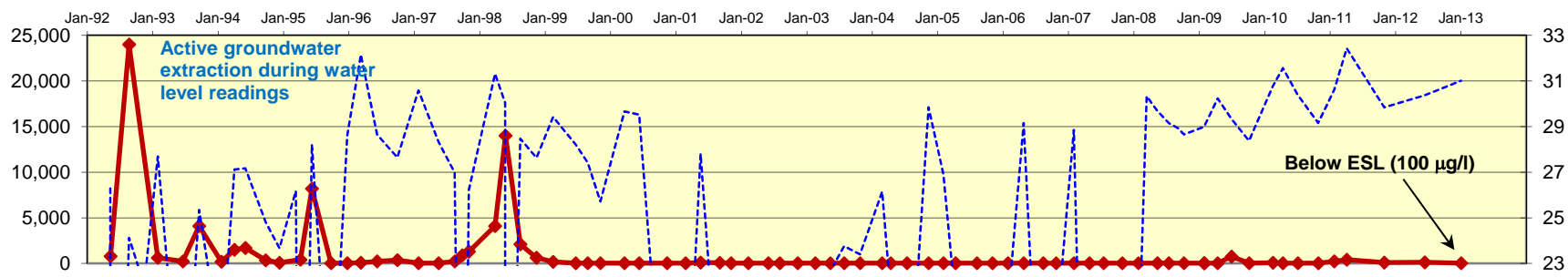
### MTBE and Groundwater Elevation



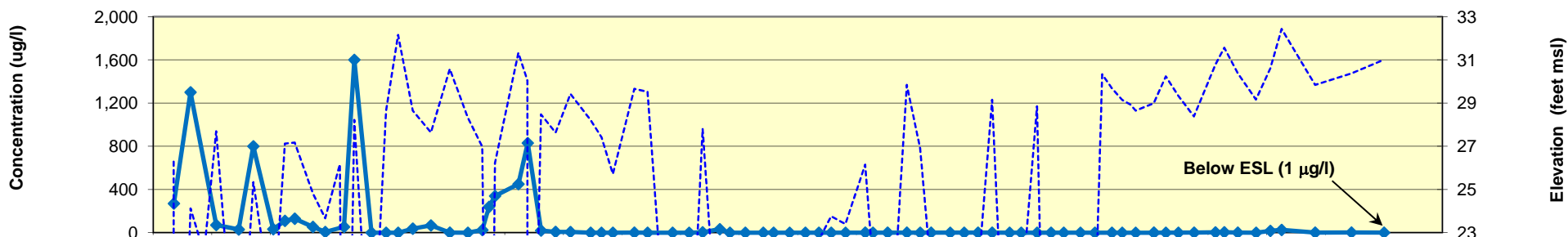
Date

◆ TPHg     
 ◆ Benzene     
 ◆ MTBE     
 - - - Elevation

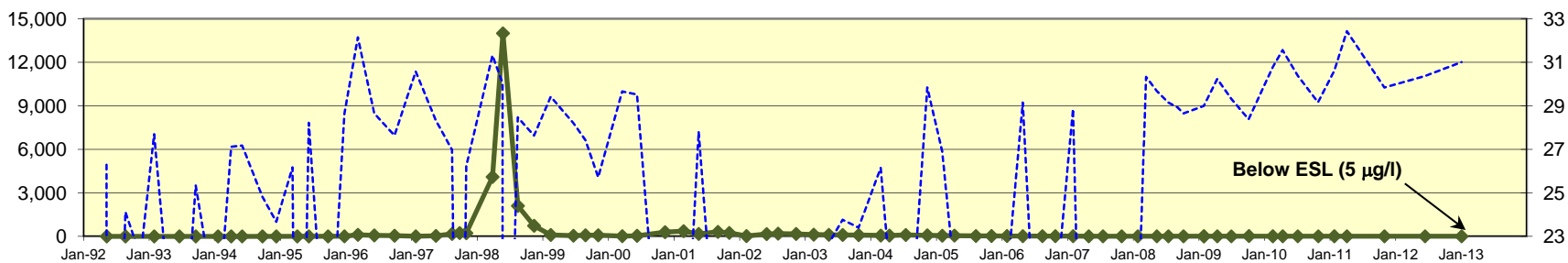
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



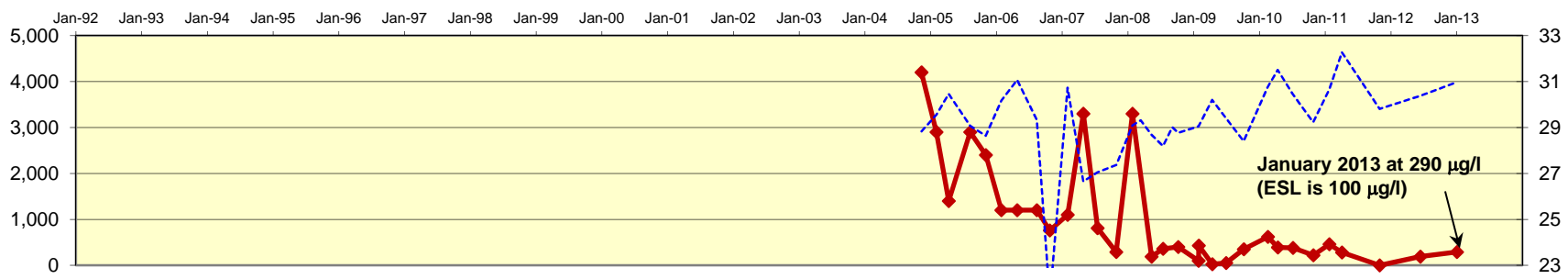
### MTBE and Groundwater Elevation



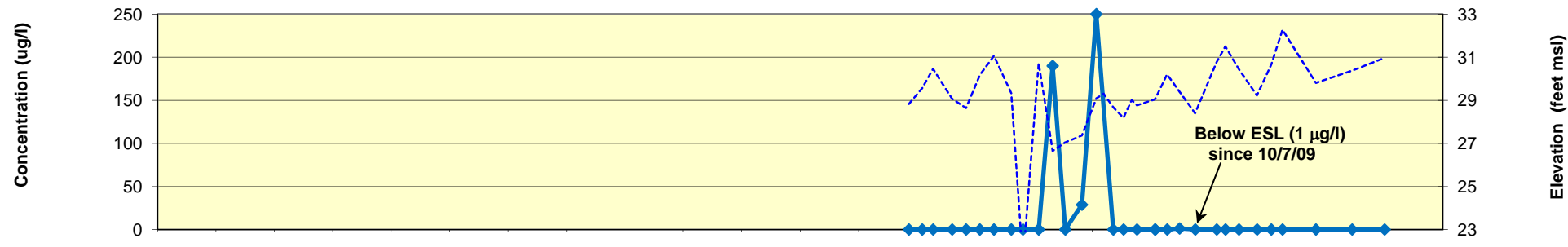
Date

◆ TPHg     
 ◆ Benzene     
 ◆ MTBE     
 --- Elevation

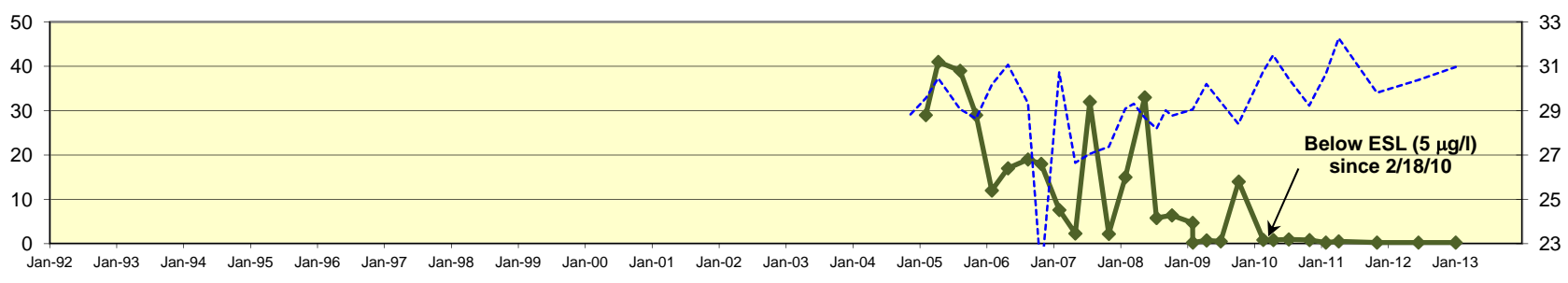
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



### MTBE and Groundwater Elevation

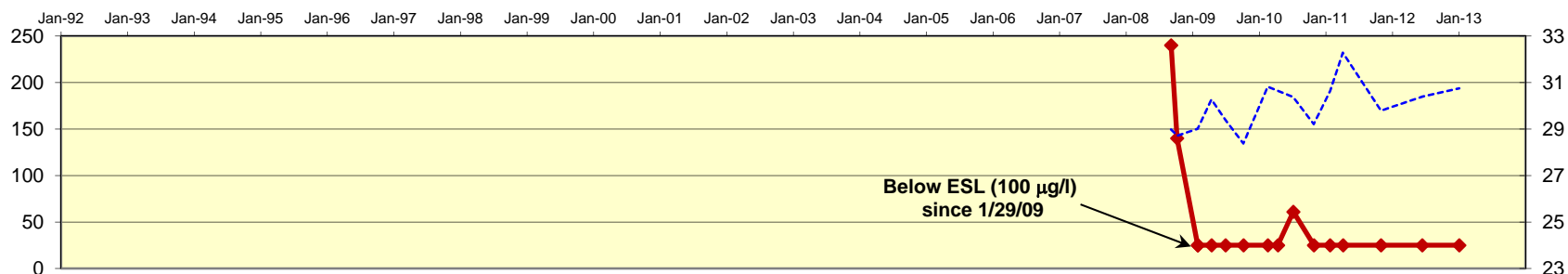


Date

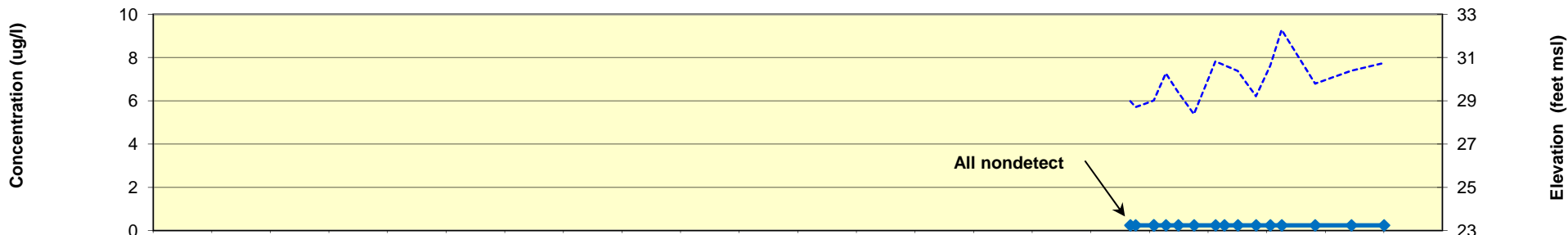
◆ TPHg     
 ◆ Benzene     
 ◆ MTBE     
 - - - Elevation



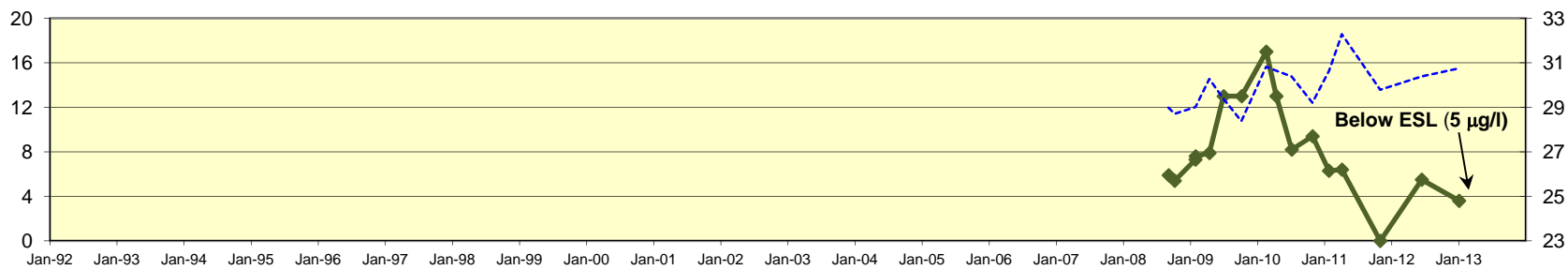
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



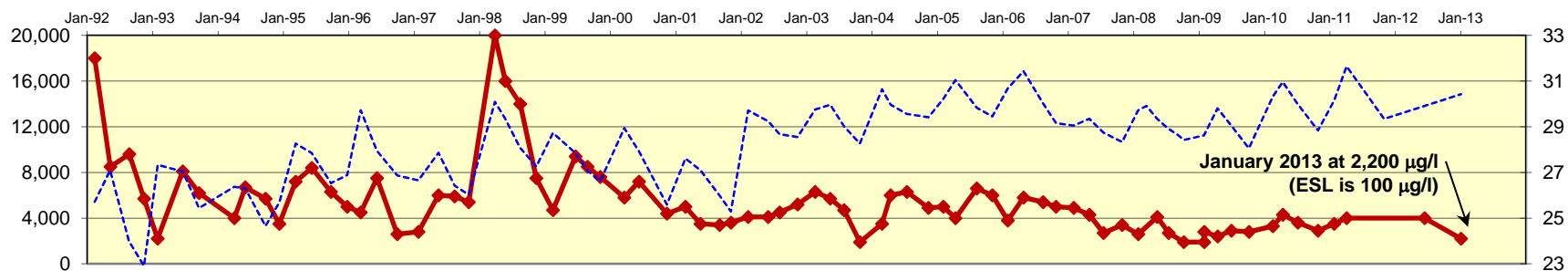
### MTBE and Groundwater Elevation



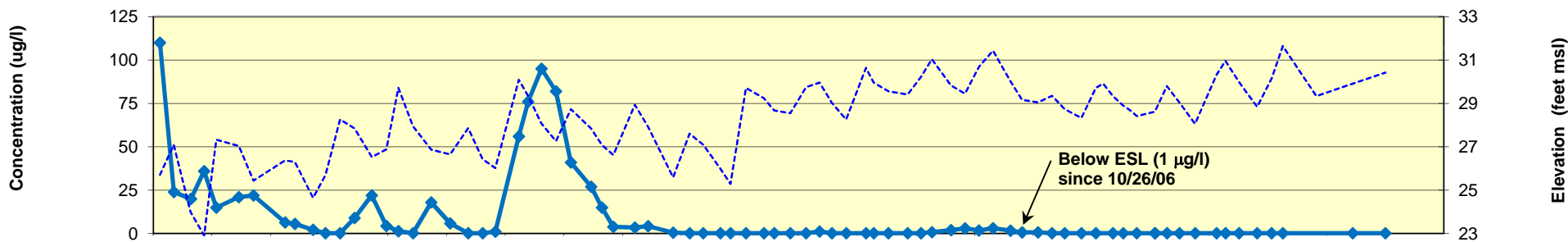
Date

◆ TPHg     
 ◆ Benzene     
 ◆ MTBE     
 - - - - Elevation

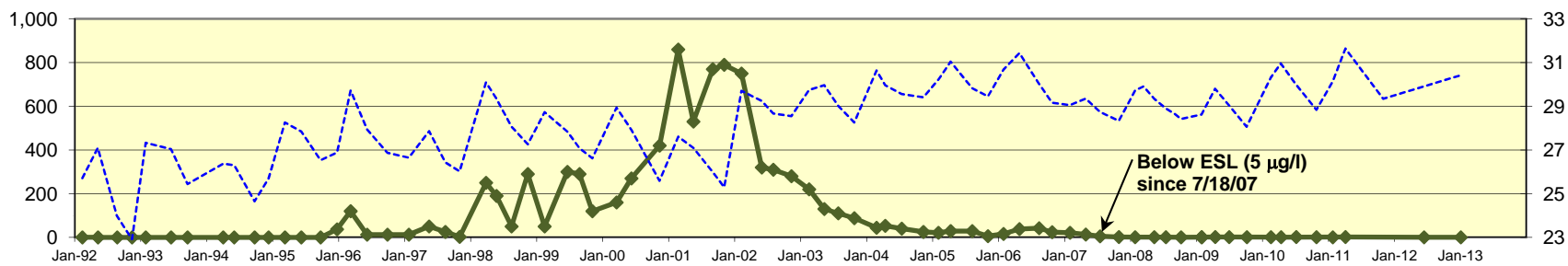
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



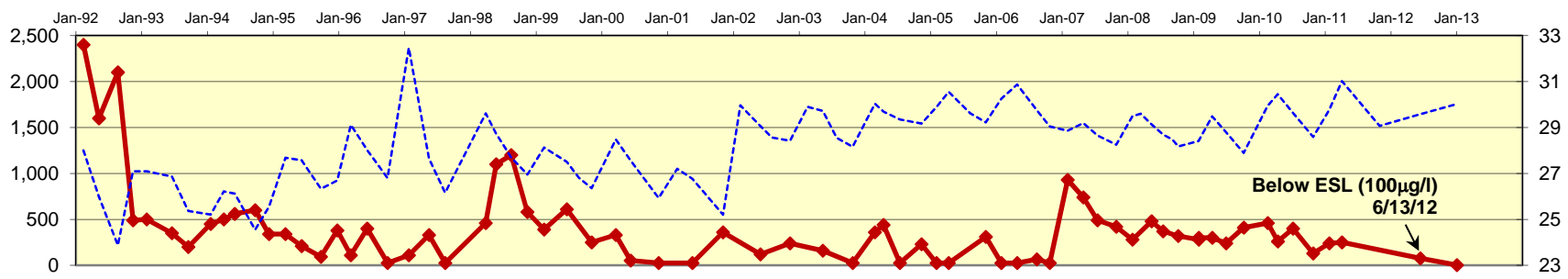
### MTBE and Groundwater Elevation



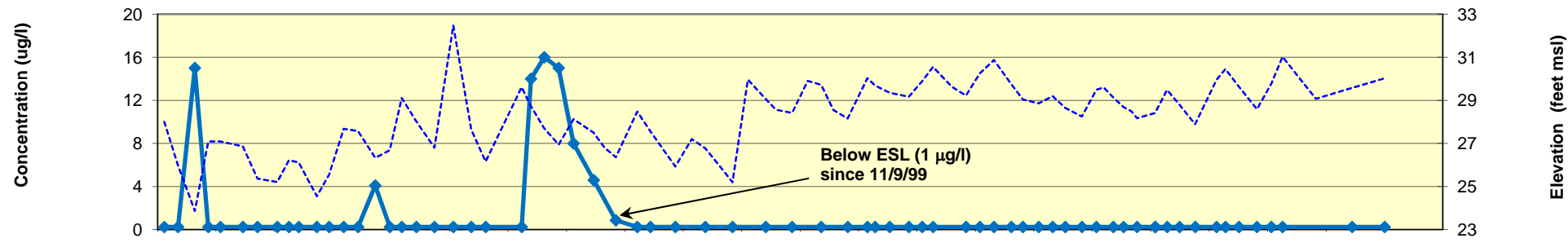
Date

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

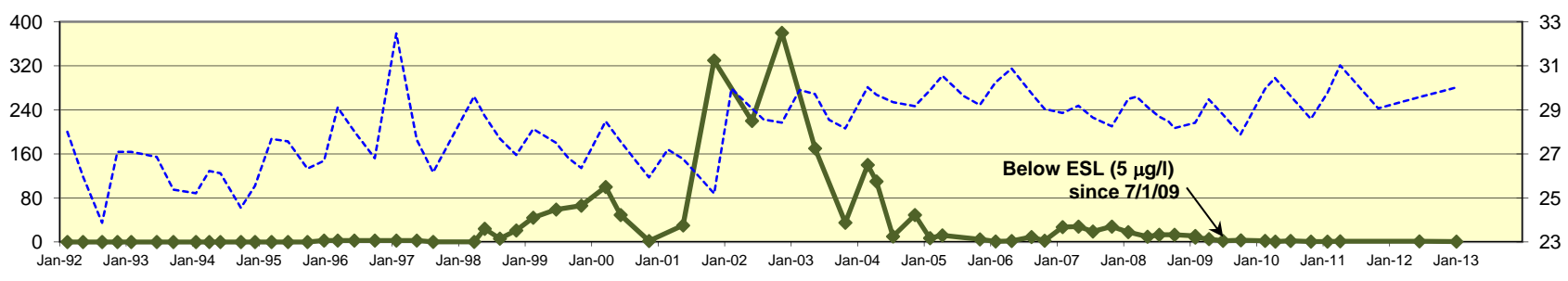
### TPHg and Groundwater Elevation



### Benzene and Groundwater Elevation



### MTBE and Groundwater Elevation



Date

◆ TPHg     
 ◆ Benzene     
 ◆ MTBE     
 - - - - Elevation

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

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

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**Monitoring Plan**

Arctos conducted groundwater monitoring in accordance with the following monitoring plan approved by Alameda County Environmental Health (ACEH) in a 28 April 2011 letter:

<b>Well Designation</b>	<b>Location</b>	<b>Sampling Frequency</b>
MW-1	Upgradient	Semiannual (2nd and 4th quarters)
MW-3R, RW-1, RW-2, and PT-1	On site	
MW-10 and MW-11	Downgradient	
MW-2, MW-4, and MW-6	Upgradient and cross gradient	Annual (2nd quarter)
MW-7 and MW-12	Downgradient	

**Analytical Plan**

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

**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 G.

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.



**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
YS Ultrameter II	6216462	1/2/13	805	P.H. <sup>4.0</sup> <sup>7.0</sup> 10.2	4.7, 10	✓	11.0	EM	
↓	↓	↓	808	Cond 1413	1413	✓	↓	EM	
YSI ProPlus	11 B100249	↓	812	DO. 100%	100.2	✓	11.0	EM	
↓	↓	↓	814	ORP 249.0	249.0	✓	11.0	EM	

Notes/comments:

## Water Level Measurements

Job Number ET130102      Date: 1/2/13      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)	Pre DO	Pre ORP	order
MW-1	822	2			15.26		33.40	TOC	2.3	204	13
MW-2	839	2			14.28		33.90				
MW-3R	832	6			14.13		28.10		0.75	187	17
MW-4	829	2			16.30		24.55				
MW-5	844	2			15.20		29.30				
MW-6	848	2			13.78		28.60				
MW-7	852	2			13.39		24.20				
MW-8	856	2			14.42		23.09				
MW-9	916	2			16.75		23.70				
MW-10	901	2			14.62		28.70		1.1	228	18
MW-11	905	2			17.67		29.40		1.4	218	15
MW-12	911	2			16.74		28.21				
PT-1	921	4			15.73		29.71		2.0	220	4
RW-1	836	6			14.85		35.51		1.4	203	14
RW-2	826	6			15.43		26.55	↓	0.50	201	16

## Purging And Sampling Data Sheet

<b>Job#:</b> E1-130102		<b>Sampler:</b> E Morse		<b>Client:</b> Orion	
<b>Well ID:</b> MW-1		<b>Date:</b> 1/2/13		<b>Site:</b> San Lorenzo	
<b>Well diam:</b> 1/4" 1" (2") 3" 4" 6" Other:				<b>DTW:</b> 15.26 <b>Total Depth:</b> 3340	
<b>Purge equip:</b> ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System					
disp bailer teflon bailer other: <b>Tubing:</b> OD: New Dedicated NA					
<b>Purge method:</b> 3-5 Case Volume Micro/Low-Flow Extraction Other:					
<b>Pump depth/ intake:</b>			<b>Multipliers:</b> 1"= 0.04   2"= 0.16   3"= 0.37   4"= 0.65   5"= 1.02   6"= 1.47   Radius <sup>2</sup> X 0.163		
(TD - DTW X Multiplier = 1 Volume			80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 2.9    X 3 = 8.70 (Total Purge)                      80% = 18.89

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL / min)	Volume Removed (gal / L)	Notes
955	19.4	7.8	660	135	15	3.0	
957	19.9	7.6	702	144	↓	6.0	
959	20.0	7.5	712	130	↓	9.0	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: 9.0 (gal / L)	
Sample method: Disp Bailer    Ded. Tubing    New Tubing    Ext. Port    Other:			
Sample date: 1/2/13		Sample time: 1005	
		DTW at sample: 12.00	
Sample ID: MW-1		Lab: Kiff	Number of bottles: 3
Analysis: See COC			
Equipment blank ID @		Field blank ID @	
Duplicate ID:		Pre-purge DO: 2.3	Post purge DO:
Fe2 <sup>+</sup> :		Pre-purge ORP: 204	Post purge ORP:
NAPL depth:		Volume of NAPL:	Volume removed: ml

## Purging And Sampling Data Sheet

Job#: E1-130102	Sampler: E Morse	Client: Orion
Well ID: <u>MW-3R</u>	Date: 1/2/13	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" <u>6"</u> Other:	DTW: <u>14.13</u> Total Depth: <u>28.10</u>	
Purge equip: <u>ES - diam:</u> Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: <b>Tubing:</b> 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 <sup>2</sup> x 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 20.54 X 3 = 61.61 (Total Purge) 80% = 16.92

Time	Temp (°C/°F)	pH	Cond (mS/cm)	Turbidity (NTU)	Purge Rate (gpm or mL/min)	Volume Removed (gal/L)	Notes
1125	21.5	7.45	860	80	4.0	21.0	odor
1130	21.0	7.4	865	101	↓	42.0	
1135	21.0	7.4	855	109	↓	63.0	
	waited for 80%						

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>63.0</u> (gal/L)
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 1/2/13	Sample time: <u>1140</u>	DTW at sample: <u>16.90</u>
Sample ID: <u>MW-3R</u>	Lab: Kiff	Number of bottles: <u>10</u>
Analysis: See COC		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO: <u>0.75</u>	Post purge DO:
Fe <sup>2+</sup> :	Pre-purge ORP: <u>187</u>	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

## Purging And Sampling Data Sheet

Job#: E1-130102	Sampler: E Morse	Client: Orion
Well ID: MW-10	Date: 1/2/13	Site: San Lorenzo
Well diam: 1/4" 1" (2") 3" 4" 6" Other:	DTW: 14.62 Total Depth: 28.70	
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: 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 <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 2.25 X 3 = 6.75 (Total Purge)

80% = 17.44

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gpm or mL / min)	Volume Removed (gal / L)	Notes
1210	19.3	7.9	620	80	1.0	2.25	oder
1212	19.8	7.6	617	54	↓	4.5	↓
1214	19.9	7.5	623	49	↓	6.75	↓
wasted for 80%							

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: 6.75 (gal) / L	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 1/2/13	Sample time: 1220	DTW at sample: 17.15	
Sample ID: MW-10	Lab: Kiff	Number of bottles: 3	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO: 1.1	Post purge DO:	
Fe <sup>2+</sup> :	Pre-purge ORP: 228	Post purge ORP:	
NAPL depth:	Volume of NAPL:	Volume removed: ml	

## Purging And Sampling Data Sheet

Job#: E1-130102	Sampler: E Morse	Client: Orion
Well ID: MW-11	Date: 1/2/13	Site: San Lorenzo
Well diam: 1/4" 1" (2) 3" 4" 6" Other:	DTW: 17.67 Total Depth: 29.40	
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 <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 1.88 X 3 = 5.63 (Total Purge)

80% = 20.02

Time	Temp (°C/°F)	pH	Cond (mS/cm)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal/L)	Notes
1045	17.9	8.8	643	80	1.0	2.0	
1047	18.8	8.6	633	50	↓	4.0	
1049	18.7	8.5	632	46	↓	6.0	

Did well dewater? YES  NO  Total volume removed: 6.0 (gal/L)

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

Sample date: 1/2/13 Sample time: 1055 DTW at sample: 17.78

Sample ID: MW-11 Lab: Kiff Number of bottles: 3

Analysis: See COC

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: 1.4 Post purge DO:

Fe<sup>2+</sup>: Pre-purge ORP: 218 Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed: ml

# Purging And Sampling Data Sheet

Job#: E1-130102	Sampler: E Morse	Client: Orion
Well ID: PT-1	Date: 1/2/13	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" (4") 6" Other:	DTW: 15.73 Total Depth: 29.7B	
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 <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 9.08 X 3 = 27.26 (Total Purge) 80% = 18.53

Time	Temp (°C/°F)	pH	Cond (mS/cm)	Turbidity (NTU)	Purge Rate (gpm or mL/min)	Volume Removed (gal/L)	Notes
932	20.2	7.0	841	33	3.0	9.25	
935	20.5	7.0	845	30	↓	18.5	
938	20.5	7.0	843	29	↓	28.0	
							wanted for 80%

Did well dewater? YES <input checked="" type="radio"/> NO <input type="radio"/>		Total volume removed: <u>28.0</u> (gal/L)	
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 1/2/13	Sample time: <u>940 945</u>		DTW at sample: <u>18.50</u>
Sample ID: <u>PT-1</u>	Lab: Kiff	Number of bottles: <u>10</u>	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO: <u>2.05</u>	Post purge DO:	
Fe2 <sup>+</sup> :	Pre-purge ORP: <u>220.0</u>	Post purge ORP:	
NAPL depth:	Volume of NAPL:	Volume removed: ml	





## Purging And Sampling Data Sheet

Job#: E1-130102	Sampler: E Morse	Client: Orion
Well ID: RW-2	Date: 1/2/13	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" 4" <u>(6")</u> Other:	DTW: 15.43 Total Depth: 26.55	
Purge equip: <u>ES - diam:</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 <sup>2</sup> X 0.163	
(TD - DTW X Multiplier = 1 Volume) 80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = 16.34 X 3 = 49.01 (Total Purge) 80% = 17.65

Time	Temp (°C/°F)	pH	Cond (mS <u>(µS)</u> )	Turbidity (NTU)	Purge Rate <u>(gpm)</u> or mL/ min)	Volume Removed <u>(gal) / L</u>	Notes
1100	19.7	7.8	708	205	4.0	16.5	
1104	20.2	7.6	695	235	↓	33.0	
1109	20.2	7.5	698	227	↓	50.0	

Did well dewater? YES <input type="radio"/> NO <input checked="" type="radio"/>		Total volume removed: <u>50.0</u> <u>(gal) / L</u>	
Sample method: <u>Disp Bailer</u> Ded. Tubing New Tubing Ext. Port Other:			
Sample date: 1/2/13	Sample time: <u>1115</u>	DTW at sample: <u>17.60</u>	
Sample ID: <u>RW-2</u>	Lab: Kiff	Number of bottles: <u>10</u>	
Analysis: See COC			
Equipment blank ID @	Field blank ID @		
Duplicate ID:	Pre-purge DO: <u>0.50</u>	Post purge DO:	
Fe <sup>2+</sup> :	Pre-purge ORP: <u>201</u>	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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-1	2/18/92	16.42	43.67	27.25
	5/14/92	17.28		26.39
	5/15/92	NM <sup>(c)</sup>		-- <sup>(d)</sup>
	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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (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
	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	
	4/5/11	13.96	32.40	
	10/31/11	16.47	29.89	
6/13/12	15.90	30.46		
1/2/13	15.26	31.10		
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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-2 (cont.)	9/28/94	18.06	43.09	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
	12/28/95	16.46		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	

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-2 (cont.)	8/6/02	14.85	45.23	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
	2/28/04	13.56		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		



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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-2 (cont.)	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
	4/5/11	12.85		32.76
	10/31/11	15.52		30.09
	6/13/12	14.91		30.70
	1/2/13	14.28		31.33
MW-3	2/18/92	16.89	43.10	26.21
	5/14/92	16.60		26.50
	5/15/92	NM		--
	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 <sup>(e)</sup>	--		
10/2/96	Dry <sup>(e)</sup>	--		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-3 (cont.)	1/28/97	Dry <sup>(e)</sup>	43.10	--
	5/20/97	Dry <sup>(e)</sup>		--
	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
	6/24/99	14.44		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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-3	4/16/04	14.89	45.21	30.32
(cont.)	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
	7/18/07	23.11		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		
4/5/11	12.72	32.44		
10/31/11	15.30	29.86		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-3R	6/13/12	14.77	45.21	30.39
(cont.)	1/2/13	14.13		31.03
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
	12/28/95	17.81		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-4 (cont.)	2/18/99	15.30	46.98	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		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
	2/28/04	15.82		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-4 (cont.)	4/30/07	17.10	46.98	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
	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	
	4/5/11	14.95	32.41	
	10/31/11	17.45	29.91	
6/13/12	14.92	32.44		
1/2/13	16.30	31.06		
MW-5	2/18/92	17.37	43.79	26.42
	5/14/92	17.29		26.50
	8/27/92	22.18		21.61
	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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-5 (cont.)	9/28/94	18.73	43.79	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
	11/15/00	16.71		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	31.81	
6/3/02	14.96		31.16	

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-5 (cont.)	8/6/02	15.65	46.12	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	
	7/16/08	16.71	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		



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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-5 (cont.)	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
	4/5/11	13.84		32.66
	10/31/11	16.48		30.02
	6/13/12	15.87		30.63
	1/2/13	15.20		31.30
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		
5/20/97	14.00	28.47		
8/18/97	15.54	26.93		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-6 (cont.)	9/29/97	NM	42.47	--
	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		44.79
	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	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		
4/13/05	15.59	29.20		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-6 (cont.)	8/10/05	14.33	44.79	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		
4/5/11	12.25	32.92		
10/31/11	16.19	28.98		
6/13/12	14.53	30.64		
1/2/13	13.78	31.39		
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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	11/19/92	18.54	41.54	23.00
	2/3/93	14.10		27.44
	6/23/93	14.33		27.21
	9/22/93	15.92		25.62
	1/24/94	16.07		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	11/15/00	15.12	41.54	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
	2/11/02	13.76		43.85
	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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-7 (cont.)	5/13/08	14.31	43.85	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
	7/1/09	15.06		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
	4/5/11	11.96		32.28
	10/31/11	14.64		29.60
	6/13/12	14.03		30.21
1/2/13	13.39	30.85		
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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-8 (cont.)	12/28/95	15.62	42.26	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
	5/28/98	NM		--
	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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-8 (cont.)	10/28/03	16.14	44.58	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
	10/26/06	15.32		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	28.60
	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		



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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-8 (cont.)	4/5/11	13.02	44.95	31.93
	10/31/11	15.64		29.31
	6/13/12	15.05		29.90
	1/2/13	14.42		30.53
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
	6/13/95	16.75		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)	
MW-9 (cont.)	11/17/98	17.32	44.94	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		
	7/31/03	17.58	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			

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-9 (cont.)	2/2/07	17.88	47.26	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
	4/5/11	15.50		32.15
10/31/11	17.87	29.78		
6/13/12	17.29	30.36		
1/2/13	16.75	30.90		
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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-10	1/24/94	NM	42.34	--
(cont.)	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
	8/30/99	15.26		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	

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-10 (cont.)	9/5/01	16.35	42.34	25.99
	11/7/01	17.05		25.29
	2/11/02	14.94	44.65	29.71
	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
	10/30/07	16.32	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	28.64	
10/8/08	16.62		28.42	

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-10 (cont.)	1/29/09	16.42	45.04	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
	4/5/11	13.40		31.64
	10/31/11	15.70		29.34
	6/13/12	15.13		29.91
	1/2/13	14.62		30.42
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
6/11/96	16.98	28.02		
10/2/96	18.20	26.80		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-11 (cont.)	1/28/97	12.53	45.00	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		
7/16/04	18.01	29.35		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
MW-11	11/13/04	18.19	47.36	29.17
(cont.)	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		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	
	4/5/11	16.67	31.02	
	10/31/11	18.62	29.07	
	6/13/12	18.11	29.58	
	1/2/13	17.67	30.02	



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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
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
	5/13/08	17.35		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
	4/5/11	15.60		31.67
	10/31/11	17.75		29.52
	6/13/12	17.29		29.98
1/2/13	16.74	30.53		
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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
RW-1 (cont.)	12/14/94	19.50	43.17	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
	1/28/97	12.59		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	

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
RW-1 (cont.)	8/6/02	25.56	45.47	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
	2/4/05	18.57		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
RW-1 (cont.)	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
	4/5/11	13.43		32.43
	10/31/11	16.02		29.84
	6/13/12	15.49		30.37
	1/2/13	14.85		31.01
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
	4/28/06	13.93		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		

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
RW-2 (cont.)	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
	4/5/11	14.13		32.27
	10/31/11	16.59		29.81
	6/13/12	16.02		30.38
	1/2/13	15.43		30.97
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		--
	1/29/09	17.74		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

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 <sup>(a)</sup> (feet MSL)	Water Table Elevation <sup>(b)</sup> (feet MSL)
OS-3 (cont.)	10/6/09	17.30	45.68	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
	7/6/10	16.10		30.38
	10/27/10	17.27		29.21
	1/25/11	15.85		30.63
	4/5/11	14.20		32.28
	10/31/11	16.69		29.79

**TABLE C-1**

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

<b>Well No.</b>	<b>Date of Measurement</b>	<b>Depth to Water (feet below casing)</b>	<b>PVC Casing Elevation<sup>(a)</sup> (feet MSL)</b>	<b>Water Table Elevation<sup>(b)</sup> (feet MSL)</b>
PT-1	6/13/12	16.09	46.48	30.39
(cont.)	1/2/13	15.73		30.75

(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 <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-1	5/15/92	41,000	2,000	47	1,200	400	-- <sup>(e)</sup>	--	--	--	--
	8/28/92	110,000	3,800	54	850	970	--	--	--	--	--
	11/19/92	3,600	200	ND<0.5 <sup>(f)</sup>	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 <sup>(a)</sup>	TPH <sub>g</sub> <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	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 <sup>(g)</sup>	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 <sup>(g)</sup>	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 <sup>(h)</sup>											

TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sub>g</sub> <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	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
	4/5/11	63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/31/11	ND<50	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
	6/13/12	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.98	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/2/13	100	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
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 <sup>(g)</sup>	8.3	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	670 <sup>(g)</sup>	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 <sup>(g)</sup>	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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-2 (cont.)	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	2,800	--	--	--	--
	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	

TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-2 (cont.)	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
	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
	4/5/11	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
	6/13/12	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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-3 (cont.)	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
	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	
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	
DUP	1/30/09	860	82	1.4	16	4.3	19	ND<0.5	ND<0.5	ND<0.5	21

TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-3R (cont.)	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
	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
	4/6/11	980	71	1.2	43	14	14	ND<0.5	ND<0.5	ND<0.5	11
	10/31/11	1,200	83	1.1	24	4.8	16	ND<0.5	ND<0.5	ND<0.5	14
	6/13/12	1,300	70	1.4	23	4.4	14	ND<0.5	ND<0.5	ND<0.5	16
1/2/13	240	15	ND<0.5	6.0	0.95	6.1	ND<0.5	ND<0.5	ND<0.5	13	
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 <sup>(g)</sup>	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	140 <sup>(g)</sup>	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	510 <sup>(g)</sup>	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 <sup>(g)</sup>	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 <sup>(g)</sup>	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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-4 (cont.)	8/19/98	120 <sup>(g)</sup>	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	--	--	--	--
	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	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	



TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-4 (cont.)	4/5/11	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
	6/13/12	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	--	--	--	--	--
	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	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
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	--	--	--	--	--
	6/13/95	150 <sup>(g)</sup>	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	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-6 (cont.)	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
	4/6/11	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
	6/13/12	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	--	--	--	--	--
	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	ND<0.5	1.3	6.0	--	--	--
	5/28/98	ND<50	ND<0.5	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	ND<0.5	27	--	--	--
11/17/98	ND<50	ND<0.5	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	ND<0.5	22	--	--	--	
11/9/99	ND<50	ND<0.5	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	ND<0.5	18	--	--	--	
11/15/00	ND<50	ND<0.5	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	ND<0.5	5.4	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-7 (cont.)	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
	4/5/11	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
6/13/12	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	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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-8 (cont.)	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
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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-9 (cont.)	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
	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	--	--	--	--	

TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-10 (cont.)	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	--	--	--	--
	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	

TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)	
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12	
MW-10 (cont.)	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	
	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	
	DUP	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	
4/5/11		4,000	ND<0.5	0.55	34	11	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5	
6/13/12	4,000	ND<0.5	ND<0.5	1.3	3.3	0.56	ND<0.5	ND<0.5	ND<0.5	ND<5		
1/2/13	2,200	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		
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	--	--	--	--	--	



TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-11 (cont.)	3/15/95	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	210 <sup>(g)</sup>	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 <sup>(g)</sup>	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 <sup>(g)</sup>	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 <sup>(g)</sup>	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	--	--	--	--
	8/19/98	1200	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	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	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
MW-11 (cont.)	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
DUP	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
	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
	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	ND<0.5	0.80	1.9	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
	4/5/11	250	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
	6/13/12	76	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
1/2/13	ND<5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.62	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-12	7/18/07	68 <sup>(g)</sup>	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 <sup>(g)</sup>	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 <sup>(g)</sup>	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
	4/5/11	53	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
6/13/12	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 <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
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	--	--	--	--
	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	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	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
RW-1 (cont.)	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	1.3	23	ND<0.5	ND<0.5	ND<0.5	ND<5
	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
DUP	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



TABLE D-1

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

Monitoring Well	Sample Date <sup>(a)</sup>	TPH <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
DW-15800 <sup>(i)</sup>	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 <sup>(j)</sup>	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 <sup>(i)</sup>	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 <sup>(i)</sup>	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 <sup>(k)</sup>	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	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	1900	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
	4/15/09	1200	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

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS  
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date <sup>(a)</sup>	TPHg <sup>(b)</sup> (µg/l)	Benzene <sup>(b)</sup> (µg/l)	Toluene <sup>(b)</sup> (µg/l)	Ethylbenzene <sup>(b)</sup> (µg/l)	Total Xylenes <sup>(b)</sup> (µg/l)	MTBE <sup>(b)</sup> (µg/l)	DIPE <sup>(b)</sup> (µg/l)	ETBE <sup>(b)</sup> (µg/l)	TAME <sup>(b)</sup> (µg/l)	TBA <sup>(b)</sup> (µg/l)
ESLs <sup>(c)</sup>		100	1.0	40	30	20	5.0	NE <sup>(d)</sup>	NE	NE	12
OS-3 (cont.)	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
	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
	4/6/11	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	ND<5
	10/31/11	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
6/13/12	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	ND<5	
1/2/13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.6	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) DUP - Duplicate sample
- (i) 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.
- (j) NS - Not sampled this sampling period.
- (k) 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 : 7 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 and TNI 2009 standards. 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,



Troy Turpen

Subject : 7 Water Samples  
Project Name : Tesoro - San Lorenzo #67107  
Project Number : 01ZO

## Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with samples PT-1 and RW-2 for the analyte Sulfate were affected by the analyte concentration present in the un-spiked sample.

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

Project Number : **01ZO**

Sample : **PT-1**

Matrix : Water

Lab Number : 83680-01

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	01/03/13 12:02
<b>Sulfate</b>	<b>29</b>	0.50	mg/L	EPA 300.0	01/03/13 12:02
Ferrous Iron	< 0.10	0.10	mg/L	SM 3500-Fe D	01/02/13 16:05
<b>Iron</b>	<b>18</b>	0.10	mg/L	EPA 6010B	01/09/13 12:11
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
<b>Methyl-t-butyl ether (MTBE)</b>	<b>3.6</b>	0.50	ug/L	EPA 8260B	01/03/13 03:57
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:57
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 03:57
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 03:57
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 03:57
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/03/13 03:57
1,2-Dichloroethane-d4 (Surr)	98.2		% Recovery	EPA 8260B	01/03/13 03:57
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	01/03/13 03:57

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

Project Number : **01ZO**

Sample : **MW-1**

Matrix : Water

Lab Number : 83680-02

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
<b>Methyl-t-butyl ether (MTBE)</b>	<b>1.3</b>	0.50	ug/L	EPA 8260B	01/03/13 04:32
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:32
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 04:32
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 04:32
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 04:32
<b>TPH as Gasoline</b>	<b>100</b>	50	ug/L	EPA 8260B	01/03/13 04:32
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	EPA 8260B	01/03/13 04:32
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	01/03/13 04:32

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

Project Number : **01ZO**

Sample : **RW-1**

Matrix : Water

Lab Number : 83680-03

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
<b>Benzene</b>	<b>0.79</b>	0.50	ug/L	EPA 8260B	01/03/13 05:06
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
<b>Methyl-t-butyl ether (MTBE)</b>	<b>2.6</b>	0.50	ug/L	EPA 8260B	01/03/13 05:06
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 05:06
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 05:06
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 05:06
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 05:06
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/03/13 05:06
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	01/03/13 05:06
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	01/03/13 05:06

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

Project Number : **01ZO**

Sample : **MW-11**

Matrix : Water

Lab Number : 83680-04

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.62</b>	0.50	ug/L	EPA 8260B	01/03/13 04:15
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 04:15
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 04:15
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 04:15
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 04:15
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/03/13 04:15
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	01/03/13 04:15
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	01/03/13 04:15

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

Project Number : **01ZO**

Sample : **RW-2**

Matrix : Water

Lab Number : 83680-05

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
<b>Nitrate as N</b>	<b>3.2</b>	0.10	mg/L	EPA 300.0	01/03/13 12:16
<b>Sulfate</b>	<b>58</b>	2.5	mg/L	EPA 300.0	01/03/13 13:35
Ferrous Iron	< 0.10	0.10	mg/L	SM 3500-Fe D	01/02/13 16:06
<b>Iron</b>	<b>3.0</b>	0.10	mg/L	EPA 6010B	01/09/13 12:15
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
<b>Ethylbenzene</b>	<b>0.90</b>	0.50	ug/L	EPA 8260B	01/03/13 02:30
<b>Total Xylenes</b>	<b>1.8</b>	0.50	ug/L	EPA 8260B	01/03/13 02:30
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 02:30
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 02:30
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 02:30
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 02:30
<b>TPH as Gasoline</b>	<b>290</b>	50	ug/L	EPA 8260B	01/03/13 02:30
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/03/13 02:30
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	01/03/13 02:30

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

Project Number : **01ZO**

Sample : **MW-3R**

Matrix : Water

Lab Number : 83680-06

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	01/03/13 12:29
<b>Sulfate</b>	<b>18</b>	0.50	mg/L	EPA 300.0	01/07/13 12:39
<b>Ferrous Iron</b>	<b>0.43</b>	0.10	mg/L	SM 3500-Fe D	01/02/13 16:07
<b>Iron</b>	<b>2.9</b>	0.10	mg/L	EPA 6010B	01/09/13 12:19
<b>Benzene</b>	<b>15</b>	0.50	ug/L	EPA 8260B	01/03/13 03:05
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:05
<b>Ethylbenzene</b>	<b>6.0</b>	0.50	ug/L	EPA 8260B	01/03/13 03:05
<b>Total Xylenes</b>	<b>0.95</b>	0.50	ug/L	EPA 8260B	01/03/13 03:05
<b>Methyl-t-butyl ether (MTBE)</b>	<b>6.1</b>	0.50	ug/L	EPA 8260B	01/03/13 03:05
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:05
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:05
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:05
<b>Tert-Butanol</b>	<b>13</b>	5.0	ug/L	EPA 8260B	01/03/13 03:05
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 03:05
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 03:05
<b>TPH as Gasoline</b>	<b>240</b>	50	ug/L	EPA 8260B	01/03/13 03:05
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	01/03/13 03:05
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	01/03/13 03:05



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

Project Number : **01ZO**

Sample : **MW-10**

Matrix : Water

Lab Number : 83680-07

Sample Date :01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/03/13 03:40
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 03:40
Methanol	< 50	50	ug/L	EPA 8260B	01/03/13 03:40
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/03/13 03:40
<b>TPH as Gasoline</b>	<b>2200</b>	50	ug/L	EPA 8260B	01/03/13 03:40
1,2-Dichloroethane-d4 (Surr)	96.8		% Recovery	EPA 8260B	01/03/13 03:40
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	01/03/13 03:40

**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
Iron	< 0.10	0.10	mg/L	EPA 6010B	01/07/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/02/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Methanol	< 50	50	ug/L	EPA 8260B	01/02/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/02/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/02/2013
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	01/02/2013
Toluene - d8 (Surr)	99.3		%	EPA 8260B	01/02/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	01/02/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Methanol	< 50	50	ug/L	EPA 8260B	01/02/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/02/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/02/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/02/2013
1,2-Dichloroethane-d4 (Surr)	98.4		%	EPA 8260B	01/02/2013
Toluene - d8 (Surr)	99.6		%	EPA 8260B	01/02/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ferrous Iron	<0.10	0.10	mg/L	SM 3500-Fe D	01/02/2013
Nitrate as N	<0.10	0.10	mg/L	EPA 300.0	01/03/2013
Sulfate	<0.50	0.50	mg/L	EPA 300.0	01/03/2013
Sulfate	<0.50	0.50	mg/L	EPA 300.0	01/07/2013

## 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	83678-03	<0.50	40.0	40.0	39.5	38.4	ug/L	EPA 8260B	1/2/13	98.7	96.0	2.76	80-120	25
Diisopropyl ether	83678-03	1.2	39.4	39.4	40.9	40.2	ug/L	EPA 8260B	1/2/13	101	98.8	1.89	80-120	25
Ethanol	83678-03	<5.0	99.6	99.6	97.9	105	ug/L	EPA 8260B	1/2/13	98.3	106	7.34	55.1-159	25
Ethyl-tert-butyl ether	83678-03	<0.50	40.6	40.6	39.0	38.8	ug/L	EPA 8260B	1/2/13	96.2	95.7	0.429	76.5-120	25
Ethylbenzene	83678-03	<0.50	40.0	40.0	41.7	40.4	ug/L	EPA 8260B	1/2/13	104	101	3.13	80-120	25
Methanol	83678-03	<50	999	999	956	961	ug/L	EPA 8260B	1/2/13	95.8	96.2	0.467	53.2-147	25
Methyl-t-butyl ether	83678-03	1.3	40.1	40.1	39.1	38.5	ug/L	EPA 8260B	1/2/13	94.3	92.8	1.61	69.7-121	25
P + M Xylene	83678-03	<0.50	40.0	40.0	38.2	37.0	ug/L	EPA 8260B	1/2/13	95.6	92.5	3.29	76.8-120	25
Tert-Butanol	83678-03	<5.0	201	201	203	201	ug/L	EPA 8260B	1/2/13	101	100	0.890	80-120	25
Tert-amyl-methyl ether	83678-03	<0.50	40.4	40.4	38.9	38.0	ug/L	EPA 8260B	1/2/13	96.3	94.2	2.14	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	83678-03	<0.50	40.0	40.0	39.9	38.7	ug/L	EPA 8260B	1/2/13	99.7	96.8	2.96	80-120	25
Benzene	83678-04	<0.50	40.0	40.0	41.1	39.9	ug/L	EPA 8260B	1/2/13	103	99.8	2.94	80-120	25
Diisopropyl ether	83678-04	<0.50	39.4	39.4	41.4	41.2	ug/L	EPA 8260B	1/2/13	105	104	0.454	80-120	25
Ethanol	83678-04	<5.0	99.6	99.6	117	121	ug/L	EPA 8260B	1/2/13	117	121	3.37	55.1-159	25
Ethyl-tert-butyl ether	83678-04	<0.50	40.6	40.6	39.8	39.9	ug/L	EPA 8260B	1/2/13	98.1	98.4	0.210	76.5-120	25
Ethylbenzene	83678-04	<0.50	40.0	40.0	39.7	38.3	ug/L	EPA 8260B	1/2/13	99.4	95.7	3.75	80-120	25
Methanol	83678-04	<50	999	999	1200	1250	ug/L	EPA 8260B	1/2/13	120	125	4.38	53.2-147	25
Methyl-t-butyl ether	83678-04	9.9	40.1	40.1	49.3	49.6	ug/L	EPA 8260B	1/2/13	98.5	99.1	0.609	69.7-121	25
P + M Xylene	83678-04	<0.50	40.0	40.0	39.5	37.9	ug/L	EPA 8260B	1/2/13	98.8	94.7	4.21	76.8-120	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
Tert-Butanol	83678-04	<5.0	201	201	208	208	ug/L	EPA 8260B	1/2/13	103	103	0.0686	80-120	25
Tert-amyl-methyl ether	83678-04	<0.50	40.4	40.4	40.3	40.2	ug/L	EPA 8260B	1/2/13	99.9	99.6	0.227	78.9-120	25
Toluene	83678-04	<0.50	40.0	40.0	41.5	40.2	ug/L	EPA 8260B	1/2/13	104	100	3.21	80-120	25
Ferrous Iron	83680-01	< 0.10	0.251	0.251	0.302	0.336	mg/L	SM 3500-Fe D	1/2/13	101	115	10.6	70.0-130	25
Nitrate as N	83680-01	< 0.10	0.500	0.500	0.497	0.490	mg/L	EPA 300.0	1/3/13	99.4	97.9	1.47	90.0-110	10
<b>Sulfate</b>	83680-01	29	2.50	2.50	31.4	31.1	mg/L	EPA 300.0	1/3/13	<b>86.9</b>	<b>76.9</b>	0.798	90.0-110	10
Sulfate	83680-06	18	2.50	2.50	20.5	20.7	mg/L	EPA 300.0	1/7/13	90.4	95.7	0.651	90.0-110	10
Iron	83681-03	< 0.10	0.400	0.400	0.413	0.430	mg/L	EPA 6010B	1/7/13	100	104	3.89	75-125	20

## 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	1/7/13	105	85-115
Benzene	40.2	ug/L	EPA 8260B	1/2/13	99.3	80-120
Diisopropyl ether	39.6	ug/L	EPA 8260B	1/2/13	101	80-120
Ethanol	100	ug/L	EPA 8260B	1/2/13	94.2	55.1-159
Ethyl-tert-butyl ether	40.8	ug/L	EPA 8260B	1/2/13	96.6	76.5-120
Ethylbenzene	40.2	ug/L	EPA 8260B	1/2/13	108	80-120
Methanol	1000	ug/L	EPA 8260B	1/2/13	89.0	53.2-147
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	1/2/13	95.1	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	1/2/13	106	76.8-120
TPH as Gasoline	479	ug/L	EPA 8260B	1/2/13	106	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	1/2/13	101	80-120
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	1/2/13	95.8	78.9-120
Toluene	40.2	ug/L	EPA 8260B	1/2/13	105	80-120
Benzene	40.1	ug/L	EPA 8260B	1/2/13	102	80-120
Diisopropyl ether	39.5	ug/L	EPA 8260B	1/2/13	103	80-120
Ethanol	99.9	ug/L	EPA 8260B	1/2/13	120	55.1-159
Ethyl-tert-butyl ether	40.7	ug/L	EPA 8260B	1/2/13	97.2	76.5-120
Ethylbenzene	40.1	ug/L	EPA 8260B	1/2/13	98.6	80-120
Methanol	1000	ug/L	EPA 8260B	1/2/13	124	53.2-147
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	1/2/13	98.2	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	40.1	ug/L	EPA 8260B	1/2/13	97.7	76.8-120
TPH as Gasoline	481	ug/L	EPA 8260B	1/2/13	95.0	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	1/2/13	102	80-120
Tert-amyl-methyl ether	40.4	ug/L	EPA 8260B	1/2/13	99.2	78.9-120
Toluene	40.1	ug/L	EPA 8260B	1/2/13	102	80-120
Ferrous Iron	0.251	mg/L	SM 3500-Fe D	1/2/13	95.6	70.0-130
Nitrate as N	0.500	mg/L	EPA 300.0	1/3/13	100	90.0-110
Sulfate	2.50	mg/L	EPA 300.0	1/3/13	99.6	90.0-110
Sulfate	2.50	mg/L	EPA 300.0	1/7/13	98.1	90.0-110



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

SRG # / Lab No. 83680

Page 1 of 1

Project Contact (Hardcopy or PDF To):  Yes  No  
 Mike Purchase  
 California EDF Report?  
 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  
 Project Address: 44 Lewelling Blvd  
 San Lorenzo, CA

Sampling Company Log Code:  
 Global ID: T0600101414  
 EDF Deliverable To (Email Address):  
 Bill to:  
 Sampler Signature: *[Signature]*

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Containers & Preservatives							Matrix			Analysis Request												TAT							
	Date	Time	40 ml HCl VOA	250 mL HDPE unpres.	100 mL HDPE unpres.	250 mL HDPE HNO <sub>3</sub>	250 mL glass H <sub>2</sub> SO <sub>4</sub>	125 mL Amber glass w/ septage	Water	Soil	Air	TPH-G, BTEX (8260B)	7 Oxygenates (MTBE, DPE, ETBE, TAME, TBA, EOH, MeOH) (EPA 8008)	Nitrate & Sulfate	BOD	COD	TOC	Total Alkalinity (SM2320 B)	Total Iron (EPA 6010)	Ferrous Iron (SM 3500-Fe D)	circle method			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)	Methane (RSK 175M)			
PT-1	4/2/13	945	3	3	1	1	2		X			X	X	X	X	X	X	X	X	X											12 hr	<input type="checkbox"/>
MW-1		1005	3						X			X	X																		24 hr	<input type="checkbox"/>
RW-1		1035	3						X			X	X																		48hr	<input type="checkbox"/>
MW-11		1055	3						X			X	X																		72hr	<input checked="" type="checkbox"/>
RW-2		1115	3	3	1	1	2		X			X	X	X	X	X	X	X	X	X											1 wk	<input type="checkbox"/>
MW-3R		1140	3	3	1	1	2		X			X	X	X	X	X	X	X	X	X												
MW-10		1220	3						X			X	X																			

Relinquished by: *[Signature]* Date: 1/2/13 Time: 1417  
 Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: 010213 Time: 1419  
 Received by Laboratory: *[Signature]* Kiff Analytical LLC

Remarks:

For Lab Use Only: Sample Receipt

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







# Subcontract Laboratory Report Attachments



# CALSCIENCE

WORK ORDER NUMBER: 13-01-0053

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Kiff Analytical

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

**Attention:** Joel Kiff  
2795 2nd Street, Suite 300  
Davis, CA 95618-6505

*Amanda Porter*

Approved for release on 01/11/2013 by:  
Amanda Porter  
Project Manager

ResultLink ▶

Email your PM ▶



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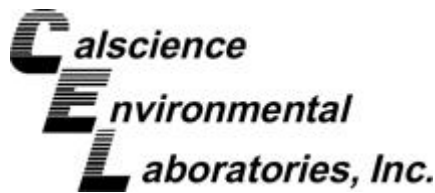


# Contents

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Client Project Name: Tesoro - San Lorenzo #67107  
Work Order Number: 13-01-0053

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Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95618-6505

Date Received: 01/03/13  
Work Order No: 13-01-0053

Project: Tesoro - San Lorenzo #67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
PT-1	13-01-0053-1	01/02/13	Aqueous

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/07/13	01/07/13	EPA 410.4
Alkalinity, Total (as CaCO3)	432	5.00	1		mg/L	N/A	01/08/13	SM 2320B
Biochemical Oxygen Demand	ND	1.0	1		mg/L	01/03/13	01/08/13	SM 5210 B
Carbon, Total Organic	46	2.5	5		mg/L	01/03/13	01/04/13	SM 5310 D

<b>RW-2</b>	<b>13-01-0053-2</b>	<b>01/02/13</b>	<b>Aqueous</b>
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/07/13	01/07/13	EPA 410.4
Alkalinity, Total (as CaCO3)	296	5.00	1		mg/L	N/A	01/08/13	SM 2320B
Biochemical Oxygen Demand	ND	1.0	1		mg/L	01/03/13	01/08/13	SM 5210 B
Carbon, Total Organic	27	2.5	5		mg/L	01/03/13	01/04/13	SM 5310 D

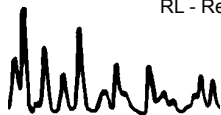
<b>MW-3R</b>	<b>13-01-0053-3</b>	<b>01/02/13</b>	<b>Aqueous</b>
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/07/13	01/07/13	EPA 410.4
Alkalinity, Total (as CaCO3)	454	5.00	1		mg/L	N/A	01/08/13	SM 2320B
Biochemical Oxygen Demand	1.3	1.0	1		mg/L	01/03/13	01/08/13	SM 5210 B
Carbon, Total Organic	47	2.5	5		mg/L	01/03/13	01/04/13	SM 5310 D

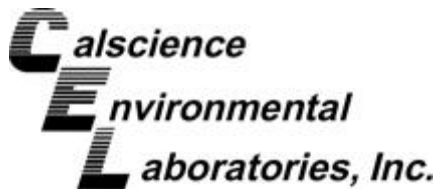
<b>Method Blank</b>	<b>N/A</b>	<b>Aqueous</b>
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	01/07/13	01/07/13	EPA 410.4
Alkalinity, Total (as CaCO3)	ND	1.0	1		mg/L	N/A	01/08/13	SM 2320B
Biochemical Oxygen Demand	ND	1.0	1		mg/L	01/03/13	01/08/13	SM 5210 B
Carbon, Total Organic	ND	0.50	1		mg/L	01/03/13	01/04/13	SM 5310 D

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



Return to Contents



Quality Control - Spike/Spike Duplicate



Kiff Analytical  
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 Davis, CA 95618-6505

Date Received: 01/03/13  
 Work Order No: 13-01-0053  
 Preparation: N/A  
 Method: SM 5310 D

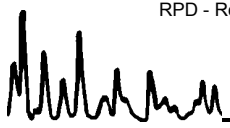
Project Tesoro - San Lorenzo #67107

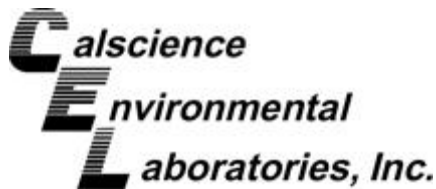
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3R	Aqueous	TOC 6	01/03/13	01/04/13	D0103TOCS1

Parameter	<u>SAMPLE CONC</u>	<u>SPIKE ADDED</u>	<u>MS CONC</u>	<u>MS %REC</u>	<u>MSD CONC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	47	25	62	63	62	63	28-148	0	0-23	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



Kiff Analytical  
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Davis, CA 95618-6505

Date Received: N/A  
Work Order No: 13-01-0053

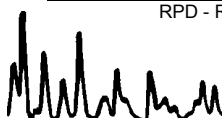
Project: Tesoro - San Lorenzo #67107

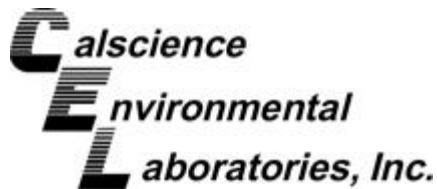
Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	SM 2320B	13-01-0042-1	01/08/13	268	274	2	0-25	
Bicarbonate (as CaCO3)	SM 2320B	13-01-0042-1	01/08/13	268	274	2	0-25	
Carbonate (as CaCO3)	SM 2320B	13-01-0042-1	01/08/13	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	13-01-0042-1	01/08/13	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	PT-1	01/07/13	ND	ND	NA	0-25	
Biochemical Oxygen Demand	SM 5210 B	PT-1	01/08/13	ND	ND	NA	0-25	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95618-6505

Date Received: N/A  
 Work Order No: 13-01-0053  
 Preparation: N/A  
 Method: SM 2320B

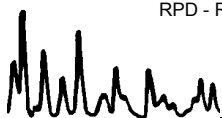
Project: Tesoro - San Lorenzo #67107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-223-5,936	Aqueous	PH1/BUR03	N/A	01/08/13	D0108ALKL1

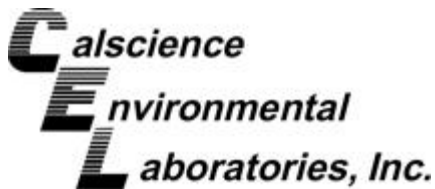
Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Alkalinity, Total (as CaCO3)	100	99.6	100	99.4	99	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95618-6505

Date Received: N/A  
 Work Order No: 13-01-0053  
 Preparation: N/A  
 Method: SM 5310 D

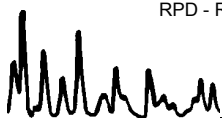
Project: Tesoro - San Lorenzo #67107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-097-4,785	Aqueous	TOC 6	01/03/13	01/04/13	D0103TOCL1

Parameter	<u>SPIKE ADDED</u>	<u>LCS CONC</u>	<u>LCS %REC</u>	<u>LCSD CONC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	5.0	5.0	101	5.0	101	77-125	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 13-01-0053

<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.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
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.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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.

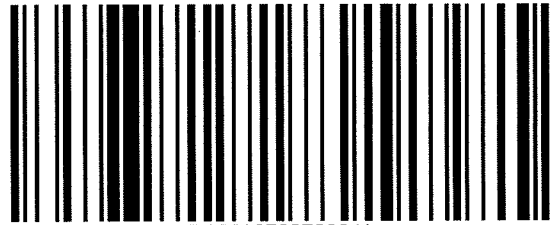
MPN - Most Probable Number







**800.334.5000**  
ontrac.com



0053

D10010539732241

Date Printed 1/2/2013

Tracking# D10010539732241

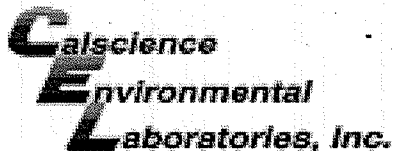
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KIFF ANALYTICAL  
2795 2ND STREET 300  
DAVIS, CA 95618

*Sent By:* SAMPLE RECEIVINGX125  
*Phone#:* (530)297-4800  
*wgt(lbs):* 20  
*Reference:* SUBS 83680  
*Reference 2:*

*Ship To Company:*  
**CALSCIENCE ENVIRONMENTAL**  
**7440 LINCOLN WAY**  
**GARDEN GROVE, CA 92841**  
**RECEIVING (714)895-5494**

*Service:* **S**  
*Sort Code:* **ORG**  
*Special Services:*  
**Signature Required**





WORK ORDER #: **13-01-0053**

**SAMPLE RECEIPT FORM**

Cooler 1 of 1

CLIENT: KIFF

DATE: 01/03/13

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.5 °C - 0.2 °C (CF) = 1.3 °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: JS

**CUSTODY SEALS INTACT:**

- Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A
- Sample  \_\_\_\_\_  No (Not Intact)  Not Present

Initial: JS

Initial: TS

**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 / Res. Chlorine / Diss. Sulfide / Diss. Oxygen 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  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs
- 500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  1PBna  500PB
- 250PB  250PBn  125PB  125PBz<sub>2</sub>na  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Canister **Other:**  \_\_\_\_\_ **Trip Blank Lot#:** \_\_\_\_\_ **Labeled/Checked by:** TS

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

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>2</sub>na: ZnAc<sub>2</sub>+NaOH f: Filtered **Scanned by:** JS



**ATTACHMENT F**

**COMPLETED STATE WATER RESOURCES CONTROL BOARD LOW-  
THREAT UNDERGROUND STORAGE TANK (UST) CASE CLOSURE POLICY  
CHECKLIST**

**Site meets the criteria of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.<sup>1</sup>**

<p><b><u>General Criteria</u></b>          General criteria that must be satisfied by all candidate sites:</p> <p><b>Is the unauthorized release located within the service area of a public water system?</b></p> <p><b>Does the unauthorized release consist only of petroleum?</b></p> <p><b>Has the unauthorized (“primary”) release from the UST system been stopped?</b></p> <p><b>Has free product been removed to the maximum extent practicable?</b></p> <p><b>Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?</b></p> <p><b>Has secondary source been removed to the extent practicable?</b></p> <p><b>Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?</b></p> <p><b>Does nuisance as defined by Water Code section 13050 exist at the site?</b></p> <p><b>Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?</b></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p><b><u>Media-Specific Criteria</u></b>          Candidate sites must satisfy all three of these media-specific criteria:</p> <p><b>1. Groundwater:</b>          To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites:</p> <p><b>Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent?</b></p> <p><b>Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites?</b></p> <p>If YES, check applicable class: <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p>

<sup>1</sup> Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.

<p><b>For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?</b></p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p><b>2. Petroleum Vapor Intrusion to Indoor Air:</b>          The site is considered low-threat for vapor intrusion to indoor air if site-specific conditions satisfy all of the characteristics of one of the three classes of sites (a through c) or if the exception for active commercial fueling facilities applies.</p> <p><b>Is the site an active commercial petroleum fueling facility?</b>          Exception: Satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk.</p> <p><b>a. Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4?</b>          If YES, check applicable scenarios: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4</p> <p><b>b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?</b></p> <p><b>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?</b></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p><b>3. Direct Contact and Outdoor Air Exposure:</b>          The site is considered low-threat for direct contact and outdoor air exposure if site-specific conditions satisfy one of the three classes of sites (a through c).</p> <p><b>a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs)?</b></p> <p><b>b. Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?</b></p> <p><b>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?</b></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>



**ATTACHMENT G**  
**WASTE MANIFEST**

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on efile (12 pin) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address <b>Tesoro #67107 44 Leuwelling Blvd, San Lorenzo</b>					
4. Generator's Phone ( )					
5. Transporter 1 Company Name <b>Confluence Env.</b>		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <b>(916) 759-8156</b>	
9. Designated Facility Name and Site Address <b>ISI 1105 Airport Rio Vista, CA.</b>		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <b>(707)</b>	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. <b>Non Haz Purgewater</b>			1	<b>Poly</b>	<b>255.0 gal.</b>
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					
Printed/Typed Name <b>Eric Mure</b>				Signature <i>[Signature]</i>	
				Date Month Day Year <b>1 2 13</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date 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 15.					
Printed/Typed Name <b>Patrick McHugh</b>				Signature <i>[Signature]</i>	
				Date Month Day Year <b>1 2 13</b>	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER FACILITY

