SITE CONCEPTUAL MODEL UPDATE
THIRD QUARTER 2006

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-67106

Prepared For:

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November 15, 2006

EXECUTIVE SUMMARY

This Site Conceptual Model (SCM) Update has been prepared by RDM Environmental, Inc. (RDM) and Haley & Aldrich, Inc. (Haley & Aldrich), on behalf of Tesoro Petroleum Companies, Inc. (Tesoro), for the former Tesoro Station No. 67106 located at 1088 Marina Boulevard, San Leandro, California. This report is submitted in fulfillment of the requirements for the California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCBSFB), the Alameda County Health Care (ACEH) Agency – Department of Health and the City of San Leandro – Environmental Service Division. This report contains only updates to the Site Conceptual Model Update Second Quarter 2006 report dated August 15, 2005 (RDM). Standard background information previously submitted to the agency in hard copy is not included in this update report. This information can be found in hard copy by referring to the SCM report dated November 10, 2005, or electronically accessed on the Tesoro North Hollywood Sharepoint website (https://portal.haleyaldrich.com/sites/ext/San Leandro).

Currently, the groundwater flow is toward the southwest, which is generally consistent with recent monitoring events, and consistent with historical groundwater flow direction. Total Petroleum Hydrocarbons as gasoline (TPH-G) are currently detected in Wells MW-1 through MW-5 and MW-9 at concentrations greater than the environmental screening level (ESL) for groundwater that is a current or potential drinking water resource. Benzene, Ethylbenzene and Total Xylenes are currently detected in Wells MW-1 through MW-4 at concentrations greater than the drinking water resource ESL. MTBE is currently detected in Well MW-8 at a concentration greater than the drinking water ESL. All other on-site and off-site Wells are either non-detect (ND) or have concentrations below the drinking water resource ESLs for TPH-G, BTEX, MTBE or other fuel oxygenates.

Based on a leveling off of treatment system performance and indications that laboratory analytical results may be biased low because many of the on-site wells were either vapor extraction or ozone injection points, it was proposed in 1Q2006 to temporarily suspend active remediation to allow an assessment of site rebound and equilibrium concentrations for a six month period. This approach was agreed to by ACEH (letter dated April 11, 2006) and all active remediation systems were shutdown on May 12, 2006. To date, laboratory analytical data indicate a relatively low rebound of gasoline constituent concentrations, which one would expect with the temporary cessation of active remediation. It is important to note that current constituent concentrations are below values observed before initiation of active remediation in 1st Quarter 2004. MNA parameter results show that the site is returning to more reducing conditions, but also indicate that the subsurface may not have yet achieved equilibrium conditions as shown by continuous decline of ORP and DO (i.e., equilibrium conditions require at least two steady readings in a row). Additional data from the 4th Quarter 2006 monitoring and sampling event, scheduled for November 2006, is necessary to complete the assessment of site conditions.

In summary, current data continue to indicate a stable plume and that the active remediation approach previously employed had reached the limits of its effectiveness. Additional site data demonstrating equilibrium conditions is needed to complete site assessment activities. That data will then be utilized to develop a revised remedial approach and plan for later implementation.

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1.0 INTRODUCTION

This Site Conceptual Model (SCM) Update Report has been prepared by RDM Environmental, Inc. (RDM) and Haley & Aldrich, Inc. (Haley & Aldrich), on behalf of Tesoro Petroleum Companies, Inc. (Tesoro) for the former Tesoro Station No. 67106 located at 1088 Marina Boulevard, San Leandro, California. This report contains only updates to the previously submitted documents. The most recently prepared project reports and standard project reference materials consistently contained in quarterly reports submitted to the CRWQCBSFB (e.g., site background, local groundwater use, site geology and hydrogeology, general field procedures, previous work, remedial system descriptions) are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro), a project data portal and collaborative resource that is currently available to all members of the project team and interested stakeholders.

Immediately before collection of the 2Q2006 groundwater samples (May 12, 2006) all active remediation systems (i.e., ozone/air sparging and soil vapor extraction) were shutdown. The temporary suspension of active remediation for a 6+ month period was agreed to in the Alameda County Health Care Services (ACEH) letter dated April 11, 2006; this approach will allow an assessment of site rebound and equilibrium contaminant concentrations. Baseline groundwater samples were collected, from all monitoring wells, immediately prior to shutdown on May 12, 2006 and sampled again after 3 months of inactivity (August 13, 2006). This quarterly report summarizes the results of the first of three planned sampling events post- systems shutdown (i.e., at 3 month); results from the post-6 month sampling event will be presented in the 4Q2006 quarterly report.

Site wells that had been previously used for active remediation (i.e., ozone/air sparging or soil vapor extraction) demonstrated a relatively low increase in contaminant levels when compared to sample results from the 2Q2006 sampling event. This increase in contaminant concentration appears to be directly related to the temporary suspension of active remediation and does not suggest additional contaminant migration. Total Petroleum Hydrocarbons as gasoline (TPH-G), Benzene, Ethylbenzene and Total Xylenes remain the main constituents of concern in groundwater beneath this site. The plume is contained within the site boundary with TPH-G concentrations in Wells MW-1 through MW-5 and MW-9 at concentrations greater than the environmental screening level (ESL) for groundwater that is a current or potential drinking water resource. Benzene, Ethylbenzene and Total Xylenes (BTEX) are currently detected in Wells MW-1 through MW-4 at concentrations greater than the drinking water resource ESL. MTBE was also found to exceed the groundwater ESL in Well MW-8. All other on-site and off-site Wells are either non-detect (ND) or have concentrations below the drinking water resource ESLs for TPH-G, BTEX, MTBE or other fuel oxygenates.

2.0 SITE BACKGROUND

Site Description and Groundwater Use details are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro).

3.0 ENVIRONMENTAL SETTING

Descriptions of the site geologic and hydrogeologic conditions are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro). A site topographic map and site map are shown in Figures 1 and 2, respectively.

4.0 SITE ASSESSMENT ACTIVITIES

In a letter dated April 11, 2006, ACEH requested the completion of a detailed well survey for wells within a 2,000-foot radius of the site to identify potential down gradient receptors and to assess which groundwater contaminant screening criteria is most applicable to the site. The well survey was completed in July 2006.

A summary of previous work conducted at the site is available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro).

5.0 QUARTERLY GROUNDWATER MONITORING AND SAMPLING

5.1 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

On August 13, 2006, groundwater levels in Monitoring Wells MW-1 through MW-9 were measured prior to well purging and sampling. No free product was observed in any of the groundwater monitoring wells and has not been observed in any project monitoring well since before March 1998. Groundwater monitoring data are presented in Table 1.

Data used to prepare the groundwater elevation contour maps were obtained from fluid level sensors deployed during the August 13, 2006 sampling event. Groundwater elevation data are summarized in Table 1. The groundwater elevation contour map, using data obtained during the August 13, 2006 sampling event, is shown in Figure 3 and indicates that groundwater direction is predominately to the southwest.

5.2 LABORATORY ANALYSIS

Groundwater samples collected during this sampling event were analyzed by a State-certified laboratory, for total petroleum hydrocarbons as gasoline (TPH-G) using the Department of Health Services Leaking Underground Fuel Tank (DHS LUFT) Method, and volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, total xylenes (BTEX), MTBE, and other fuel oxygenates using Environmental Protection Agency (EPA) Method 8260B.

Additional samples were collected for the analysis of monitored natural attenuation (MNA) parameters (including: dissolved oxygen, redox potential, pH, conductivity, ferrous iron, total iron, alkalinity, carbon dioxide, total organic carbon) from all wells using low flow sampling methods. MNA parameter results are summarized in Table 2. These parameters were collected to determine typical subsurface conditions during periods of inactive remediation to assess equilibrium conditions and potential rebound effects when compared to subsurface conditions from samples collected during periods of active remediation.

Historical and quarterly laboratory analytical results of laboratory analysis of groundwater samples are presented in Table 1. Dissolved-phase Benzene, TPH-G, MTBE and total Xylenes iso-concentration maps are shown on Figures 4, 5, 6, and 7, respectively. Copies of the official laboratory reports and chain of custody records for the 3rd Quarter 2006 quarterly groundwater sampling event are included in Appendix B. In addition, field data sheets from the quarterly monitoring and sampling event are included in Appendix A.

5.3 FINDINGS

On August 13, 2006, groundwater was measured at depths between 11.1 feet and 13.8 feet below surface grade (bsg). Based on previous groundwater elevation data, the groundwater elevation has decreased less than one foot, on average, across the site due to seasonal variability and reduced mounding from temporary suspension of ozone/air sparging and soul vapor extraction. Groundwater flow beneath the site is to the southwest under a hydraulic gradient less than 0.05 foot per foot; similar to previous quarters. Groundwater monitoring data are presented in Tables 1 and 2, and the groundwater elevation contour map is shown on Figure 3.

Results of laboratory analysis of groundwater samples collected on August 13, 2006, from Wells MW-1 through MW-9 are summarized in Table 1 and indicate the following:

- TPH-G was detected in groundwater samples collected from Wells MW-1 through MW-5, and MW-9 at concentrations ranging from 140 ug/L to 7,700 ug/L. Results show an increase in TPH-G concentrations from the Second Quarter 2006 analytical results, which can be attributed to the temporary suspension of active remediation. All other wells were ND (<50 ug/L) or less than the groundwater ESL of 100 ug/L.

- Benzene was detected in groundwater samples collected from Wells MW-2, MW-3 and MW-4 at concentrations of 17, 2.2 and 2.5 ug/L, respectively. Results are consistent with groundwater sample results from the Second Quarter 2006 and show little change in contaminant concentrations. All other Wells were ND (<0.5 ug/L) or less than the GW ESL of 1 ug/L.

- Toluene was no observed in any groundwater samples at a concentration greater than the groundwater ESL of 40 ug/L. Wells MW-1 through MW-4 showed Toluene detections ranging from 0.57 ug/L to 20 ug/L; all other Wells were ND (<0.5 ug/L).

- Ethylbenzene was detected in groundwater samples collected from Wells MW-1, MW-2, and MW-4 at concentrations of 40, 520, and 41 ug/L, respectively. All other Wells were ND (<0.5 ug/L) or less than the GW ESL of 30 ug/L.

- Total Xylenes were detected in groundwater samples collected from Wells MW-2 and MW-4 at concentrations of 160 and 240 ug/L, respectively. All other Wells were ND (<0.5 ug/L) or less than the GW ESL of 20 ug/L.

- MTBE was detected in one groundwater sample at a concentration greater than the groundwater ESL of 5 ug/L (MW-8 at 6.1 ug/L), all other Wells were ND (<0.5 ug/L) or less than the GW ESL.

Results of field MNA parameter analysis (2nd of 3 rounds) of groundwater samples collected on August 13, 2006, from Wells MW-1 through MW-9 are summarized in Table 2 and indicate the following:

- Dissolved oxygen concentration and ORP have decreased in all monitoring wells that were previously used as either SVE or ozone/air sparging points.

- Ferrous ion (Fe^{2+}) and total iron concentrations have increased in all monitoring wells that were previously used as either SVE or ozone/air sparging points.

- Other MNA parameters (i.e. dissolved CO_2, total alkalinity, total organic carbon, conductivity, pH) show small changes in concentration; too small at this point to demonstrate significant changes in site conditions.

Overall the changes in MNA parameter concentrations indicate the site is returning to but may not have yet achieved equilibrium conditions.

6.0 SITE CONCEPTUAL MODEL OVERVIEW AND UPDATE

Currently, the groundwater flow is toward the southwest, which is generally consistent with recent monitoring events, and consistent with the previous SCM for the site. During the 2nd Quarter 2006, active remediation remained suspended and will remain off for a period of 6 months to conduct an assessment of rebound and site conditions under equilibrium state.

7.0 QUARTERLY REMEDIAL PROGRESS OF SOIL VAPOR EXTRACTION SYSTEM

7.1 OPERATIONS UPDATE

Active SVE remediation was temporarily suspended on May 12, 2006 and will remain off for a period of 6 months to conduct an assessment of rebound and conditions under equilibrium state.

8.0 QUARTERLY REMEDIAL PROGRESS OF GROUNDWATER TREATMENT SYSTEM

8.1 OPERATIONS UPDATE

Active ozone/air sparging was temporarily suspended on May 12, 2006 and will remain off for a period of 6 months to conduct an assessment of rebound and site conditions under equilibrium state (i.e., unstable DO and ORP readings).

9.0 PROPOSED WORK ACTIVITIES

RDM, Haley & Aldrich, and Tesoro propose the following work activities for the Fourth Quarter of 2006:

- Regularly scheduled monitoring of water levels in key wells within the monitoring network to provide groundwater flow gradient and direction data.

- Continue quarterly groundwater compliance reporting under this new reporting format, including updates to the SCM as appropriate.

- Maintain remediation shut-down for a minimum 6-month period. We anticipate, based on experience at sites with similar subsurface conditions, that six months is sufficient time for the subsurface to reach equilibrium conditions.

- At the end of the six month period, sample each well for TPH-G, VOC, and MNA parameters. Sample collection is tentatively scheduled for November 10, 2006. We anticipate the analytical results will provide insight with respect to the following:
    - Has the site returned to equilibrium conditions?
    - Whether subsurface conditions are appropriate for the current remedial approach.
    - The extent to which the current remedial approach has been effective.

- Using laboratory and field data assess whether the site has achieved equilibrium conditions or if another quarter of monitoring is required.

- If the 4th Quarter 2006 data indicate the site has achieved equilibrium conditions recommend an approach for remedial systems operation for implementation in 1st Quarter 2007.

11.0 STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The conclusions presented herein are based solely upon the agreed upon scope of work outlined in this report. RDM makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information, which was not found or available to RDM at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by RDM have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This report was supervised or prepared by the licensed professional whose signature and license number appear below.

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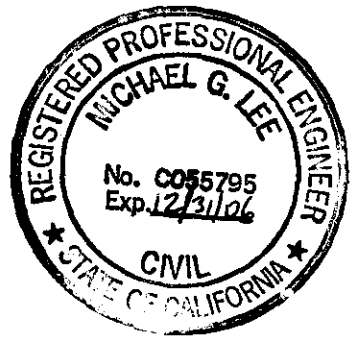

11.0 REFERENCES

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater; Volume 1: Summary Tier 1 Lookup Tables. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final – 2005.

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater; Volume 2: Background Documentation for the Development of Tier I Environmental Screening Levels. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final – 2005.

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	NA	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	NA	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	NA	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	NA	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	NA	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	NA	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	NA	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	NA	No sheen
	11/15/00		14.19	18.91	<20	<20	470	390	8,500	14,000	NA	No sheen
	02/27/01		12.35	20.75	5.4	2.6	260	190	6,100	4,300	NA	No sheen
	05/22/01		14.18	18.92	8.9	13	1,100	1,300	21,000	2,300	NA	No sheen
	09/05/01		13.70	19.10	<2.0	3.6	600	850	12,000	93	NA	No sheen
	11/07/01		14.25	18.85	<5.0	<5.0	1,300	1,600	23,000	87	NA	No sheen
	02/11/02	35.47	13.05	22.42	<0.5	<0.5	140	150	4,500	18	NA	No sheen
	06/03/02		13.31	22.16	<2.5	<2.5	520	460	12,000	12	NA	No sheen
	08/06/02		13.75	21.72	<0.5	<0.5	710	580	22,000	15	NA	No sheen
	11/14/02		14.10	21.37	<5.0	<5.0	300	250	16,000	8.1	ND	No sheen
	02/20/03		12.80	22.67	<1.5	<1.5	130	89	7,300	9.3	ND	No sheen
	05/15/03		12.90	22.57	<2.5	<2.5	270	120	14,000	4.7	ND	No sheen
	07/31/03		13.50	21.97	<5.0	<5.0	380	230	18,000	5.2	ND	No sheen
	10/28/03		14.42	21.05	<5.0	<5.0	340	210	17,000	<5.0	ND	No sheen
	02/28/04		12.72	22.75	<2.0	<2.0	140	48	10,000	4.8	ND	No sheen
	04/16/04		13.52	21.95	<0.5	<0.5	29	11	2,800	2.1	ND	No sheen
	07/16/04		14.04	21.43	<0.5	0.57	130	74	5,500	1.4	ND	No sheen
	11/13/04		13.99	21.43	<0.70	<0.70	56	25	4,000	ND	ND	No sheen
	02/04/05		13.36	22.11	0.57	<0.5	140	58	9,700	0.75	ND	No sheen
	04/08/05		12.43	23.04	<1.5	<1.5	84	24	8,100	<1.5	ND	No sheen
	08/10/05		13.62	21.85	<1.5	<1.5	92	32	8,700	<1.5	ND	No sheen
	11/05/05		13.95	21.52	<1.5	<1.5	92	38	9,200	<1.5	ND	No sheen
	01/13/06		12.43	23.04	<1.5	<1.5	34	17	6,500	<1.5	ND	No sheen
	05/12/06		12.40	23.33	<0.5	1.0	26	12	3,600	<0.5	330[d], 390[e]	No sheen
	08/13/06		13.08	22.39	<0.5	0.57	40	12	5,200	<0.5	ND	No sheen

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San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-2	03/12/98	32.80	10.92	21.88	32	1.0	12	6.5	440	20	NA	No sheen
	05/28/98		10.41	22.39	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No sheen
	08/31/98		12.29	20.51	9.3	0.95	4.9	8.8	270	20	NA	No sheen
	11/19/98		13.47	19.33	16	0.72	<0.5	4.3	180	7.4	NA	No sheen
	03/15/99		11.95	20.85	12	3.5	59	840	2,400	10	NA	No sheen
	06/07/99		13.11	19.69	21	0.99	6.9	10	690	6.1	NA	No sheen
	09/07/99		12.92	19.88	7.8	1.2	42	100	610	<5.0	NA	No sheen
	12/13/99		13.96	18.84	26	0.93	52	96	3,000	<5.0	NA	No sheen
	03/08/00		10.87	21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.53	20.27	51	17	170	320	5,500	18	NA	No sheen
	11/15/00		13.96	18.84	75	48	1,200	2,800	16,000	19,000	NA	No sheen
	02/27/01		12.29	20.51	54	24	320	870	10,000	6,000	NA	No sheen
	05/22/01		15.51	17.29	12	5.0	79	100	2,400	3,500	NA	No sheen
	09/05/01		13.75	19.05	120	180	1,500	5,100	34,000	400	NA	No sheen
	11/07/01		13.99	18.81	87	170	1,400	3,700	32,000	870	NA	No sheen
	02/11/02	35.11	12.98	22.13	170	250	1,600	4,700	34,000	390	NA	No sheen
	06/03/02		13.24	21.87	130	260	1,700	5,100	29,000	110	NA	No sheen
	08/06/02		13.73	21.38	110	240	1,700	4,700	34,000	84	NA	No sheen
	11/14/02		13.55	21.56	51	150	1,300	3,600	35,000	39	ND	No sheen
	02/20/03		11.80	23.31	67	130	1,100	2,800	23,000	71	ND	No sheen
	05/15/03		12.27	22.84	57	110	840	2,300	19,000	43	ND	No sheen
	07/31/03		13.46	21.65	78	210	2,000	5,000	31,000	36	ND	No sheen
	10/28/03		14.09	21.02	59	120	2,000	3,600	32,000	19	ND	No sheen
	02/28/04		12.27	22.84	21	26	520	980	10,000	35	ND	No sheen
	04/16/04		13.22	21.89	30	30	540	890	11,000	30	23[c]	No sheen
	07/16/04		13.76	21.35	42	36	1,200	2,300	21,000	17	ND	No sheen
	11/13/04		13.79	21.35	25	27	780	1,300	14,000	9.1	ND	No sheen
	02/04/05		13.08	22.03	24	20	720	1,000	14,000	8.6	ND	No sheen
	04/08/05		12.11	23.00	19	11	580	630	14,000	7.9	ND	No sheen
	08/10/05		13.27	21.84	21	11	610	520	13,000	7.6	ND	No sheen
	11/05/05		11.92	23.19	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	01/13/06		12.26	22.85	17	7.8	220	230	6,800	3.5	ND	No sheen
	05/12/06		11.64	23.47	2.3	1.6	39	34	1,400	<0.5	200[d], 190[e]	No sheen
	08/13/06		12.80	22.31	17	6.4	520	160	7,700	3.4	ND	No sheen

TABLE 1

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Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	NA	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	NA	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	NA	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	NA	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	NA	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	NA	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	NA	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	NA	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	NA	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	NA	No sheen
	11/15/00		13.85	18.45	<200	<200	<200	<200	<20,000	84,000	NA	No sheen
	02/27/01		12.22	20.08	98	<20	130	30	3,500	16,000	NA	No sheen
	05/22/01		13.66	18.64	41	<20	20	<20	<2,000	5,800	NA	No sheen
	09/05/01		13.41	18.89	9.9	1.5	49	8.2	5,300	430	NA	No sheen
	11/07/01		13.85	18.45	9.4	1.8	47	8.8	6,500	1,600	NA	No sheen
	02/11/02	34.84	12.86	21.98	8.9	<2.0	14	<2.0	2,400	530	NA	No sheen
	06/03/02		13.10	21.74	13	0.77	19	0.94	2,100	110	NA	No sheen
	08/06/02		13.52	21.32	25	2.5	12	1.1	2,800	120	NA	No sheen
	11/14/02		13.49	21.35	29	0.89	3.7	<0.5	2,200	420	1.1[b], 19[c]	No sheen
	02/20/03		12.92	21.92	2.5	<0.5	<0.5	<0.5	2,400	340	13[c]	No sheen
	05/15/03		12.83	22.01	2.0	<0.5	1.2	<0.5	2,100	200	0.85[b], 15[c]	No sheen
	07/31/03		13.44	21.40	1.2	<0.5	<0.5	<0.5	1,600	330	0.81[b], 15[c]	No sheen
	10/28/03		13.92	20.92	1.0	<0.5	<0.5	<0.5	1,600	160	7.1[c]	No sheen
	02/28/04		12.50	22.34	1.2	<0.5	0.74	<0.5	1,400	58	74[c]	No sheen
	04/16/04		13.07	21.77	1.2	<0.5	<0.5	<0.5	1,400	45	95[c]	No sheen
	07/16/04		13.62	21.22	6.1	1.1	<0.5	0.83	1,900	43	21[c]	No sheen
	11/13/04		13.70	21.22	4.7	0.79	<0.5	<0.5	1,300	30	82[c]	No sheen
	02/04/05		12.94	21.90	0.79	<0.5	<0.5	<0.5	1,300	10	12[c]	No sheen
	04/08/05		12.10	22.74	<0.5	<0.5	<0.5	<0.5	770	4.2	ND	No sheen
	08/10/05		13.19	21.65	3.4	0.61	0.57	<0.5	1,600	6.3	11[c]	No sheen
	11/05/05		13.46	21.38	7.1	1.0	2.7	0.75	2,200	3.6	13[c]	No sheen
	01/13/06		12.20	22.64	5.0	1.1	4.9	1.2	1,200	3.1	9.8[a]	No sheen
	05/12/06		11.79	23.05	2.4	1.2	1.8	1.1	960	2.1	6.1[c], 220[d], 300[e]	No sheen
	08/13/06		12.66	22.18	2.2	0.62	1.6	1.0	1,700	1.1	5.5[c]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	NA	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	NA	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	NA	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	NA	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	NA	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	NA	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	NA	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	NA	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	NA	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	NA	No sheen
	11/15/00		14.33	18.57	12	38	28	130	710	1,300	NA	No sheen
	02/27/01		14.25	18.65	67	300	310	1,400	6,500	1,000	NA	No sheen
	05/22/01		13.99	18.91	2.1	5.6	4.8	20	130	350	NA	No sheen
	09/05/01		15.75	17.15	110	670	250	1,300	6,200	600	NA	No sheen
	11/07/01		16.10	16.80	40	270	180	940	4,100	110	NA	No sheen
	02/11/02	35.33	15.04	20.29	91	590	620	3,000	14,000	350	NA	No sheen
	06/03/02		13.61	21.72	69	390	190	1,100	4,300	240	NA	No sheen
	08/06/02		15.01	20.32	100	690	570	2,900	13,000	170	NA	No sheen
	11/14/02		13.98	21.35	65	380	550	3,400	20,000	130	ND	No sheen
	02/20/03		13.33	22.00	57	240	650	3,700	18,000	98	ND	No sheen
	05/15/03		13.29	22.04	44	100	200	1,200	8,500	120	21[c]	No sheen
	07/31/03		13.76	21.57	42	59	250	1,400	11,000	87	ND	No sheen
	10/28/03		14.48	20.85	80	40	130	650	8,100	130	20[c]	No sheen
	02/28/04		12.96	22.37	85	430	570	3,700	17,000	67	ND	No sheen
	04/16/04		13.57	21.76	72	420	570	3,800	19,000	60	ND	No sheen
	07/16/04		14.16	21.17	46	330	360	2,200	10,000	58	28[c]	No sheen
	11/13/04		14.34	21.17	50	240	360	2,200	9,400	22	ND	No sheen
	02/04/05		13.56	21.77	14	160	170	1,100	4,800	7.9	ND	No sheen
	04/08/05		12.65	22.68	15	160	200	1,200	5,800	6.6	ND	No sheen
	08/10/05		13.73	21.60	7.0	110	100	570	3,000	5.2	9.9[c]	No sheen
	11/05/05		14.35	20.98	6.0	91	95	630	3,000	5.3	9.1[c]	No sheen
	01/13/06		12.76	22.57	8.3	100	160	860	4,000	4.9	6.7[a]	No sheen
	05/12/06		12.56	22.75	<0.5	0.62	<0.5	<0.5	<50	<0.5	180[d], 260[b]	No sheen
	08/13/06		13.30	22.03	2.5	20	41	240	1,200	2.0	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	NA	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	NA	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	NA	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	NA	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	NA	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	NA	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	NA	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	NA	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	NA	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	NA	No sheen
	11/15/00		14.23	18.47	36	1.6	180	180	4,500	10	NA	No sheen
	02/27/01		12.66	20.04	33	1.6	160	220	2,800	110	NA	No sheen
	05/22/01		13.58	19.12	49	2.2	180	230	3,200	240	NA	No sheen
	09/05/01		14.05	18.65	28	1.0	100	100	2,400	560	NA	No sheen
	11/07/01		14.32	18.38	<2.0	<2.0	2.1	20	390	590	NA	No sheen
	02/11/02	35.09	13.31	21.78	19	<5.0	59	52	1,200	1,800	NA	No sheen
	06/03/02		13.55	21.54	44	<2.0	150	210	3,200	610	NA	No sheen
	08/06/02		14.10	20.99	42	<2.0	140	150	3,200	820	NA	No sheen
	11/14/02		14.03	21.06	29	1.3	94	100	2,900	560	100[c]	No sheen
	02/20/03		13.35	21.74	22	<1.0	81	77	2,900	270	170[c]	No sheen
	05/15/03		13.11	21.98	55	1.8	94	85	3,700	220	0.64[b], 170[c]	No sheen
	07/31/03		13.88	21.21	45	1.1	26	19	2,400	200	180[c]	No sheen
	10/28/03		14.41	20.68	6.8	<0.5	4.4	1.1	570	77	8.0[c]	No sheen
	02/28/04		12.89	22.20	37	1.4	130	120	3,400	72	32[c]	No sheen
	04/16/04		13.41	21.68	26	0.73	45	53	2,400	81	130[c]	No sheen
	07/16/04		13.92	21.17	24	0.85	36	20	2,100	71	46[c]	No sheen
	11/13/04		14.35	21.17	19	0.55	37	17	1,600	38	59[c]	No sheen
	02/04/05		13.48	21.61	40	1.40	120	80	4,500	32	43[c]	No sheen
	04/08/05		12.42	22.67	<0.5	<0.5	<0.5	<0.5	67	7.9	ND	No sheen
	08/10/05		13.36	21.73	<0.5	<0.5	<0.5	<0.5	<50	1.5	ND	No sheen
	11/05/05		13.96	21.13	<0.5	<0.5	2.2	1.5	110	<0.5	ND	No sheen
	01/13/06		12.53	22.56	<0.5	<0.5	1.2	<0.5	0.58	<0.5	ND	No sheen
	05/12/06		12.26	22.83	<0.5	<0.5	<0.5	<0.5	<50	0.54	28[e]	No sheen
	08/13/06		13.05	22.04	<0.5	<0.5	0.58	<0.5	140	0.66	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		10.75	19.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		11.55	18.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.10	18.30	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.31	18.09	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	32.74	11.05	21.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	06/03/02		11.70	21.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	08/06/02		12.28	20.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		12.46	20.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		11.26	21.48	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/15/03		11.85	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/31/03		11.73	21.01	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	10/28/03		12.38	20.36	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/28/04		11.88	20.86	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		11.85	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/16/04		12.84	19.90	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/13/04		12.13	19.90	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		11.14	21.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/08/05		10.94	21.80	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	08/10/05		11.42	21.32	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/05/05		11.90	20.84	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	01/13/06		10.70	22.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/12/06		10.63	22.11	<0.5	0.72	<0.5	<0.5	<50	<0.5	35[e]	No sheen
	08/13/06		11.08	21.66	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		11.85	19.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		12.31	18.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.85	18.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.75	18.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	33.64	NM	NC	NS	NS	NS	NS	NS	NS	NS	
	06/03/02		12.58	21.06	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No sheen
	08/06/02		12.93	20.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		13.04	20.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		12.75	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/15/03		12.45	21.19	<0.5	<0.5	<0.5	<0.5	<50	0.69	ND	No sheen
	07/31/03		12.80	20.84	<0.5	<0.5	<0.5	<0.5	<50	0.65	ND	No sheen
	10/28/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	No sheen
	02/28/04		12.21	21.43	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		12.26	21.38	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/16/04		12.85	20.79	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/13/04		13.01	20.79	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		12.57	21.07	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/08/05		11.82	21.82	<0.5	<0.5	<0.5	<0.5	<50	0.78	ND	No sheen
	08/10/05		12.44	21.20	<0.5	<0.5	<0.5	<0.5	<50	0.61	ND	No sheen
	11/05/05		12.91	20.73	<0.5	<0.5	<0.5	<0.5	<50	0.76	ND	No sheen
	01/13/06		11.51	22.13	<0.5	<0.5	<0.5	<0.5	<50	0.61	ND	No sheen
	05/12/06		11.37	22.27	<0.5	0.59	<0.5	<0.5	<50	0.57	15[e]	No sheen
	08/13/06		11.88	21.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-8	03/12/98	33.80	11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	NA	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	NA	No sheen
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	NA	No sheen
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	NA	No sheen
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	NA	No sheen
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	NA	No sheen
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	NA	No sheen
	11/15/00		14.94	18.86	2.0	<0.5	3.1	2.6	100	110	NA	No sheen
	02/27/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	05/22/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	09/05/01		14.68	19.12	160	<2.0	200	330	4,800	850	NA	No sheen
	11/07/01		15.10	18.70	1.1	<1.0	2.0	6.1	<100	590	NA	No sheen
	02/11/02	36.08	14.06	22.02	7.9	<5.0	16	22	<500	1,700	NA	No sheen
	06/03/02		14.25	21.83	20.0	<2.0	19	35	550	650	NA	No sheen
	08/06/02		14.55	21.53	220	<2.0	170	280	4,800	1,000	NA	No sheen
	11/14/02		14.73	21.35	250	<2.5	160	220	4,800	1,200	47[c]	No sheen
	02/20/03		13.81	22.27	17	<1.0	19	42	760	520	16[c]	No sheen
	05/15/03		13.68	22.40	14	<0.5	16	23	690	370	0.79[b], 10[c]	No sheen
	07/31/03		14.54	21.54	29	<1.0	15	18	700	380	36[c]	No sheen
	10/28/03		15.09	20.99	87	<1.0	34	40	2,000	490	130[c]	No sheen
	02/28/04		13.45	22.63	21	<0.5	15	49	1,100	200	110[c]	No sheen
	04/16/04		14.19	21.89	57	<0.5	52	75	2,900	300	140[c]	No sheen
	07/16/04		14.76	21.32	32	<0.5	34	51	2,000	92	67[c]	No sheen
	11/13/04		14.91	21.32	30	0.64	84	92	4,100	61	76[c]	No sheen
	02/04/05		14.09	21.99	27	<0.5	65	92	2,700	56	38[c]	No sheen
	04/08/05		13.11	22.97	1.1	<0.5	<0.5	<0.5	81	6.9	ND	No sheen
	08/10/05		14.20	21.88	14	<0.5	26	22	2,000	27	22[c]	No sheen
	11/05/05		14.79	21.29	9.7	<0.5	54	67	2,300	15	21[c]	No sheen
	01/13/06		13.24	22.84	<0.5	<0.5	<0.5	0.51	52	0.58	ND	No sheen
	05/12/06		12.97	23.11	<0.5	<0.5	<0.5	<0.5	<50	<0.5	90[d], 91[e]	No sheen
	08/13/06		13.83	22.25	0.51	<0.5	0.84	0.51	77	6.1	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	03/12/98	32.56	10.93	21.63	320	23	180	720	3,700	190	NA	No sheen
	05/28/98		11.31	21.25	110	6.4	87	300	2,200	220	NA	No sheen
	08/31/98		12.16	20.40	240	23	690	1,900	11,000	<50	NA	No sheen
	11/19/98		11.04	21.52	7.7	<0.5	10	22	280	67	NA	No sheen
	03/15/99		11.81	20.75	<0.5	<0.5	<0.5	1.2	<50	<5.0	NA	No sheen
	06/07/99		12.21	20.35	9.3	0.86	9.7	12	340	<5.0	NA	No sheen
	09/07/99		10.10	22.46	0.76	<0.5	1.9	0.8	72	9.9	NA	No sheen
	12/13/99		13.64	18.92	<0.5	<0.5	<0.5	<0.5	60	<5.0	NA	No sheen
	03/08/00		10.88	21.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.50	20.06	0.9	<0.5	2.7	1.3	640	10	NA	No sheen
	11/15/00		13.60	18.96	<0.5	<0.5	0.69	<0.5	200	12	NA	No sheen
	02/27/01		12.15	20.41	0.61	<0.5	2.2	1.2	360	42	NA	No sheen
	05/22/01		13.20	19.36	0.57	<0.5	2.1	0.61	330	290	NA	No sheen
	09/05/01		13.10	19.46	<2.0	<2.0	<2.0	<2.0	<200	1,100	NA	No sheen
	11/07/01		13.85	18.71	1.0	<1.0	<1.0	<1.0	230	510	NA	No sheen
	02/11/02	34.63	12.98	21.65	<0.5	<0.5	<0.5	<0.5	<50	41	NA	No sheen
	06/03/02		12.48	22.15	<0.5	<0.5	<0.5	<0.5	<50	55	NA	No sheen
	08/06/02		13.16	21.47	<0.5	<0.5	<0.5	<0.5	<50	65	NA	No sheen
	11/14/02		13.15	21.48	<0.5	<0..5	<0.5	<0.5	<50	47	ND	No sheen
	02/20/03		12.46	22.17	<0.5	<0.5	<0.5	<0.5	<50	28	ND	No sheen
	05/15/03		12.26	22.37	<0.5	<0.5	<0.5	<0.5	<50	8.9	ND	No sheen
	07/31/03		12.94	21.69	<0.5	<0.5	<0.5	<0.5	<50	0.85	ND	No sheen
	10/28/03		13.83	20.80	<0.5	<0.5	<0.5	<0.5	<50	0.76	ND	No sheen
	02/28/04		12.59	22.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		13.04	21.59	<0.5	<0.5	<0.5	<0.5	53	<0.5	ND	No sheen
	07/16/04		13.52	21.11	<0.5	<0.5	<0.5	<0.5	56	<0.5	ND	No sheen
	11/13/04		13.68	21.11	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		13.04	21.59	<0.5	<0.5	<0.5	<0.5	90	<0.5	ND	No sheen
	04/08/05		12.17	22.46	<0.5	<0.5	<0.5	<0.5	150	<0.5	ND	No sheen
	08/10/05		13.04	21.59	<0.5	<0.5	0.76	<0.5	260	<0.5	ND	No sheen
	11/05/05		13.55	21.08	<0.5	<0.5	<0.5	<0.5	150	<0.5	ND	No sheen
	01/13/06		12.30	22.33	<0.5	<0.5	0.78	<0.5	280	<0.5	ND	No sheen
	05/12/06		5.45	NC	NS	NS	NS	NS	NS	NS	NS	Well Blocked
	08/13/06		12.66	21.97	<0.5	<0.5	1.7	<0.5	1,000	<0.5	ND	No sheen

a =Referenced to mean sea level.
b =tert-amyl methyl ether
c = tert-butanol
d = methanol
e = ethanol

TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.
Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 2

MNA MONITORING

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	pH	D.O. (ppm)	ORP	Specific Conductivity	Temperature	Dissolved CO_2 (ppm)	Ferrous Iron (Fe^{+2})	Total Alkalinity (ppm)	Total Organic Carbon (ppm)	Total Iron (ppm)
MW-1	05/12/06	7.01	2.97	-23	277	18.3	41	0.6	120	11	1.36
	08/13/06	6.97	1.11	-84	227	66.6	26	1.2	94	2.7	14.7
		6.88	1.07	-81	232	67.6		1.4			
		6.84	1.00	-89	228	66.3		1.4			
MW-2	05/12/06	7.38	7.51	82	332	18.1	59	0.0	68	3.9	0.703
	08/13/06	6.70	0.65	-113	239	72.8	26	2.0	120	3.2	25.5
		6.71	0.67	-119	240	73.0		1.8			
		6.71	0.72	-120	239	73.2		1.8			
MW-3	05/12/06	6.84	2.21	-48	283	19.1	42	1.0	76	3.8	1.23
	08/13/06	6.82	0.51	-199	276	69.4	20	1.6	94	2.4	3.47
		6.79	0.52	-185	274	71.9		1.4			
		6.72	0.47	-183	262	72.5		1.4			
MW-4	05/12/06	7.59	9.65	40	534	19.8	3.9	0.0	190	2.4	95
	08/13/06	7.08	2.41	-14	509	68.5	20	NM	180	3.7	308
		7.04	2.86	-17	475	68.2		NM			
		7.17	2.88	-14	499	68.0		NM			
MW-5	05/12/06	7.28	22.41	173	538	20.0	12	0.0	250	1.90	0.36
	08/13/06	6.90	2.28	79	689	71.8	23	0.0	350	2.5	2.49
		6.86	2.16	75	668	72.7		0.0			
		6.87	1.92	7.2	659	72.0		0.0			
MW-6	05/12/06	7.02	4.30	53	1079	17.9	160	0.2	510	3.9	<0.1
	08/13/06	6.87	2.58	47	1067	67.7	81	0.0	480	4.9	<0.1
		6.91	2.36	44	1045	67.1		0.0			
		6.86	2.42	42	1052	66.9		0.0			
MW-7	05/12/06	7.04	2.02	12	425	20.1	65	0.0	170	2.1	<0.1
	08/13/06	6.73	0.86	44	455	70.0	42	0.0	180	2.0	0.732
		6.68	0.91	43	455	70.4		0.0			
		6.66	0.96	46	458	7.09		0.0			
MW-8	05/12/06	6.99	5.60	-13	846	18.9	87	0.0	290	2.90	<0.1
	08/13/06	6.86	0.89	-30	716	70.1	97	0.6	370	3.6	2.67
		6.86	0.84	-32	742	69.9		0.6			
		6.86	0.80	-35	787	70.9		0.6			

TABLE 2

MNA MONITORING

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	pH	D.O. (ppm)	ORP	Specific Conductivity	Temperature	Dissolved CO_2 (ppm)	Ferrous Iron (Fe^{+2})	Total Alkalinity (ppm)	Total Organic Carbon (ppm)	Total Iron (ppm)
MW-9	05/12/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/13/06	7.02	1.50	1.50	413	68.9	21	0.0	180	2.6	4.69
		7.01	1.99	1.99	410	68.9		0.0			
		6.99	2.16	2.16	412	68.9		0.0			
		6.98	2.18	2.18	416	68.8		0.0			

a =Referenced to mean sea level.
b =tert-amyl methyl ether
c = tert-butanol
d = methanol
e = ethanol

TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.
Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/05/97	3.2	0.72	1.2	2.5	220	NA
Effluent	06/05/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/03/97	0.30	0.67	0.23	1.8	86	NA
Effluent	07/03/97	<0.05	0.054	<0.05	0.13	<5.0	NA
Influent	07/22/97	0.76	1.6	0.92	5.3	270	NA
Effluent	07/22/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/07/97	2.0	1.3	0.53	2.7	130	NA
Effluent	08/07/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/04/97	1.8	0.73	1.3	5.9	190	NA
Effluent	09/04/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/24/97	0.49	0.52	0.35	2.3	54	NA
Effluent	10/24/97	<0.05	<0.05	<0.05	0.057	<5.0	NA
Effluent	11/26/97	0.094	0.089	<0.05	0.062	5.3	NA
Influent	12/10/97	<0.05	0.44	0.076	0.37	5.8	NA
Effluent	12/10/97	<0.05	0.062	<0.05	<0.05	<5.0	NA
Influent	12/12/97	0.59	0.17	0.49	2.0	26	NA
Effluent	12/12/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/23/98	0.18	0.32	0.072	0.47	18	NA
Mid-Carbon	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/07/98	0.067	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/21/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/11/98	<0.05	0.06	<0.05	0.071	<5.0	NA
Mid-Carbon	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/10/98	0.16	0.46	0.062	0.20	16	NA
Mid-Carbon	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/23/98	0.16	0.32	<0.05	0.20	9.4	NA
Mid-Carbon	09/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/20/98	0.63	0.19	0.062	0.17	28	NA
Mid-Carbon	10/20/98	0.79	0.37	<0.05	0.088	48	NA
Effluent	10/20/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/26//97	0.13	0.43	0.072	0.35	9.2	NA
Influent	12/08/99	0.73	2.2	0.15	0.71	43	NA
Mid-Carbon	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/13/99	0.068	0.057	<0.05	0.095	6.5	NA
Mid-Carbon	01/13/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/13/99	<0.05	<0.05	<0.05	<0.05	5.4	NA
Effluent	01/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/10/99	1.1	1.2	0.071	0.28	56	NA
Mid-Carbon	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/10/99	0.070	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/10/99	0.069	<0.05	<0.05	<0.05	28	NA
Effluent	03/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/07/99	0.22	0.078	<0.05	0.060	17	NA
Influent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/12/99	0.16	0.77	<0.05	0.18	11	NA
Mid-Carbon	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/09/99	0.092	1.0	0.20	0.94	12	NA
Mid-Carbon	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/07/99	0.069	0.41	0.07	0.38	16	NA
Mid-Carbon	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/12/99	0.96	8.6	1.1	4.7	150	NA
Mid-Carbon	10/12/99	<0.05	<0.05	<0.05	0.064	<5.0	NA
Effluent	10/12/99	<0.05	<0.05	<0.05	0.063	<5.0	NA
Influent	11/17/99	0.22	1.9	0.32	1.7	21	NA
Mid-Carbon	11/17/99	0.067	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/17/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/28/99	1.2	22	2.4	12	570	NA
Mid-Carbon	12/28/99	0.052	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/00	0.45	1.7	0.18	1.0	110	NA
Mid-Carbon	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/26/00	0.059	0.77	0.19	1.1	14	NA
Mid-Carbon	01/26/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/26/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/06/00	0.095	1.4	0.18	0.87	22	NA
Mid-Carbon	02/06/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/06/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/09/00	0.45	3.1	0.52	2.8	59	NA
Mid-Carbon	02/09/00	0.18	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/09/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/16/00	0.10	3.5	0.54	4.1	46	NA
Mid-Carbon	03/16/00	0.83	0.31	<0.05	<0.05	22	NA
Effluent	03/16/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/04/00	0.17	1.9	0.29	2.0	23	NA
Mid	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	05/12/00	<0.05	0.059	<0.05	0.091	<5.0	NA
Mid	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/19/00	<0.05	0.12	<0.05	<0.05	<5.0	NA
Mid	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	08/09/00	2.4	8.1	0.80	3.5	140	NA
Mid	08/09/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	08/09/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	09/06/00	2.4	8.1	0.80	3.5	140	NA
Mid	09/06/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	09/06/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	10/17/00	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid	10/17/00	<0.050	0.07	<0.050	<0.050	<5.0	NA
Effluent	10/17/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/00	<0.05	0.24	0.08	0.29	<5.0	NA
Mid	11/29/00	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid	03/01/01	<0.05	0.053	<0.05	<0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.053	<0.05	0.13	<5.0	NA

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	10/17/2000	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid-Carbon	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	0.24	0.08	0.29	<5.0	NA
Mid-Carbon	11/29/2000	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid-Carbon	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid-Carbon	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid-Carbon	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid-Carbon	03/01/01	<0.05	0.053	<0.05	0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.11	<0.05	0.13	<5.0	NA
Influent	04/18/01	0.1	0.63	0.12	0.56	18	NA
Mid-Carbon	04/18/01	<0.05	<0.05	<0.05	0.078	<5.0	NA
Effluent	04/18/01	<0.05	<0.05	<0.05	0.11	<5.0	NA
Influent	05/21/01	0.088	1.0	0.31	1.5	20	NA
Mid-Carbon	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/05/01	0.15	1.5	0.36	1.6	24	NA
Mid-Carbon	06/05/01	<0.05	0.053	<0.05	0.098	9.1	NA
Effluent	06/05/01	<0.05	<0.05	<0.05	<0.05	5.6	NA
Influent	07/16/01	<0.05	0.11	<0.05	0.14	<5.0	NA
Mid-Carbon	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/24/01	0.15	1.1	0.16	0.71	19	NA
Mid-Carbon	08/24/01	<0.05	0.055	<0.05	<0.05	<5.0	NA
Effluent	08/24/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/06/01	0.28	1.8	0.38	1.6	37	NA
Mid-Carbon	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/23/01	0.11	0.17	<0.05	0.10	<5.0	NA
Mid-Carbon	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/01	O.076	0.16	<0.05	0.063	<5.0	NA
Mid-Carbon	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/29/02	<0.05	0.12	<0.05	0.067	<5.0	NA
Mid-Carbon	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/20/02	0.054	0.12	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/18/02	<0.05	0.076	<0.05	0.092	<5.0	0.16
Mid-Carbon	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.1
Effluent	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.32
Influent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/13/02	<0.05	0.07	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.2
Mid-Carbon	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.94
Effluent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.5
Influent	09/23/02	<0.05	0.19	<0.05	0.12	<5.0	1.2
Mid-Carbon	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.0

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	10/21/02	<0.05	0.46	0.068	0.33	7.3	0.93
Mid-Carbon	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	11/24/02	0.064	0.8	0.11	0.56	12	2.3
Mid-Carbon	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	12/20/02	0.18	2.6	0.34	1.4	27	4.7
Mid-Carbon	12/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.63
Effluent	12/20/02	<0.05	0.13	<0.05	0.052	<5.0	0.24
Influent	01/29/03	<0.05	0.11	<0.05	0.071	<5.0	NA
Mid-Carbon	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/20/03	<0.05	0.19	<0.05	0.17	<5.0	0.61
Mid-Carbon	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/20/03	<0.05	0.12	<0.05	0.11	<5.0	0.59
Mid-Carbon	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	04/22/03	<0.05	0.15	0.067	0.44	5.6	1.1
Mid-Carbon	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	1.6
Effluent	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.91
Influent	05/29/03	<0.05	0.094	<0.05	0.084	<5.0	0.96
Mid-Carbon	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	3.3
Effluent	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.85
Influent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.2
Mid-Carbon	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.55
Effluent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.50
Influent	07/21/03	<0.05	0.077	<0.05	<0.05	<5.0	3.2
Mid-Carbon	07/21/03	0.064	<0.05	<0.05	<0.05	<5.0	1.2
Effluent	07/21/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.0
Influent	08/20/03	0.18	1.0	0.095	0.58	23	2.3
Mid-Carbon	08/20/03	0.058	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	08/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/26/03	0.86	9.5	1.2	5.4	210	4.9
Mid-Carbon	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
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1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	12/29/03	0.21	4.1	0.68	4.1	69	<0.05
Mid-Carbon	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/28/04	0.13	1.7	0.31	1.4	29	<0.10
Mid-Carbon	01/28/04	<0.05	0.078	<0.05	0.36	<5.0	<0.10
Effluent	01/28/04	<0.05	0.092	0.061	0.49	<5.0	<0.10
Influent	02/29/04	0.12	0.91	0.29	2.0	24	<0.10
Mid-Carbon	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/15/04	0.13	0.72	0.15	0.88	15	<0.05
Mid-Carbon	03/15/04	<0.05	<0.05	<0.05	0.056	<5.0	<0.05
Effluent	03/15/04	<0.05	<0.05	<0.05	0.38	<5.0	<0.05
Influent	05/26/04	0.13	0.88	0.24	1.3	19	<0.05
Mid-Carbon	05/26/04	<0.05	<0.05	<0.05	0.15	<5.0	<0.05
Effluent	05/26/04	<0.05	0.07	0.066	0.51	7.2	<0.05
Influent	06/30/04	0.15	0.83	0.30	1.7	33	<0.05
Mid-Carbon	06/30/04	<0.05	<0.05	<0.05	<0.05	16	<0.05
Effluent	06/30/04	<0.05	<0.05	<0.05	<0.05	5.2	<0.05
Influent	08/30/04	<0.05	0.05	<0.05	0.14	<5.0	<0.05
Mid-Carbon	08/30/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	08/30/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	09/19/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	09/19/04	<0.05	<0.05	<0.05	<0.05	6.2*	<0.05
Effluent	09/19/04	<0.05	<0.05	<0.05	<0.05	5.6*	<0.05
Influent	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/23/04	<0.05	0.056	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	11/23/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	11/23/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
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1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	05/30/05	<0.05	0.08	0.086	0.68	14	0.06
Mid-Carbon	05/30/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	05/30/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	06/28/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	06/28/05	<0.05	<0.05	<0.05	<0.05	32*	<0.05
Effluent	06/28/05	<0.05	<0.05	<0.05	<0.05	26*	<0.05
Influent	07/28/05	<0.05	<0.05	<0.05	<0.05	58*	<0.05
Mid-Carbon	07/28/05	<0.05	<0.05	<0.05	<0.05	36*	<0.05
Effluent	07/28/05	<0.05	<0.05	<0.05	<0.05	70*	<0.05
Influent	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	04/25/06	<0.05	0.077	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	04/25/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	04/25/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

TPH = Total petroleum hydrocarbons.

MTBE = methyl -t-butyl ether

mg/L = Micrograms per liter.

ppmv = parts per million by volume.

* = It was determined the tedlar bag manufacturer had produced and shipped contaminated bags.

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
08/18/98	---	---	---	---	---	---	---	---	---	---	---	---	---	**1,715**	---	---	---
09/10/98	98	98	16	<5.0	0.16	<0.05	NC	NC	0.50	< 0.16	0.005	< 0.002	LAB	**1,721**	282	2,587	552
09/23/98	98	98	9.4	<5.0	0.16	<0.05	NC	NC	0.29	< 0.16	0.005	< 0.002	LAB	**1,726**	283	2,907	320
10/20/98	59	59	28	<5.0	0.63	<0.05	NC	NC	0.53	< 0.09	0.012	< 0.001	LAB	**1,727**	283	2,962	55
12/08/98	49	49	43	<5.0	0.73	<0.05	NC	NC	0.67	< 0.08	0.011	< 0.001	LAB	**1,727**	283	3,803	0*
01/13/99	49	49	6.5	5.4	0.068	<0.05	16.9	NC	0.10	0.08	0.001	< 0.001	LAB	**1,738**	285	4,495	692
02/10/99	44	44	56	<5.0	1.1	<0.05	NC	NC	0.79	< 0.07	0.016	< 0.001	LAB	**1,738**	285	4,496	1
03/10/99	15	15	<5.0	<5.0	0.07	<0.05	NC	NC	< 0.02	< 0.02	0.001	< 0.001	LAB	**1,750**	287	5,172	676
06/08/99	35	35	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**1,750**	287	5,173	1
07/12/99	39	39	11	<5.0	0.16	<0.05	NC	NC	0.14	< 0.06	0.002	< 0.001	LAB	**1,753**	287	5,982	809
08/04/99	39	39	12	<5.0	0.092	<0.05	NC	NC	0.15	< 0.06	0.001	< 0.001	LAB	**1,756**	288	6,534	552
09/07/99	39	39	16	<5.0	0.069	<0.05	NC	NC	0.20	< 0.06	0.001	< 0.001	LAB	**1,762**	289	7,351	817
10/12/99	54	54	150	<5.0	0.96	<0.05	NC	NC	2.59	< 0.09	0.015	< 0.001	LAB	**1,772**	290	7,998	167**
11/17/99	49	49	21	<5.0	0.22	<0.05	NC	NC	0.33	< 0.08	0.003	< 0.001	LAB	**1,825**	299	8,866	868
12/28/00	49	49	570	<5.0	1.2	<0.05	NC	NC	8.96	< 0.08	0.017	< 0.001	LAB	**1,825**	299	8,867	1
01/12/00	79	79	110	<5.0	0.45	<0.05	NC	NC	2.77	< 0.13	0.010	< 0.001	LAB	**1,907**	313	9,202	335
01/26/00	79	79	14	<5.0	0.059	<0.05	NC	NC	0.35	< 0.13	0.001	< 0.001	LAB	**1,929**	316	9,540	338
02/09/00	79	79	59	<5.0	0.45	<0.05	NC	NC	1.48	< 0.13	0.010	< 0.001	LAB	**1,933**	317	9,662	122
03/16/00	79	79	46	<5.0	0.1	<0.05	NC	NC	1.16	< 0.13	0.002	< 0.001	LAB	**1,981**	325	10,525	863
04/04/00	41	41	23	<5.0	0.17	<0.05	NC	NC	0.30	< 0.07	0.002	< 0.001	LAB	**1,981**	325	10,526	2
05/12/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,986**	326	11,164	638
06/19/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,988**	326	12,071	907
07/11/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,990**	326	12,601	530
07/25/00	41	41	140	< 5.4	2.4	<0.05	96.1	NC	1.85	0.07	0.029	< 0.001	LAB	**2,003**	328	12,937	336
08/09/00	41	41	2200	<5.0	25	<0.05	NC	NC	29.05	< 0.07	0.299	< 0.001	LAB	**2,004**	329	12,938	1
09/06/00	41	41	6.8	<5.0	<0.05	<0.05	NC	NC	0.09	< 0.07	< 0.001	< 0.001	LAB	**2,409**	395	13,606	668

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
10/17/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,411**	395	14,054	448
11/29/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,414**	396	15,062	1,008
12/07/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,414**	396	15,328	266
01/19/01	87	87	17.0	<5.0	0.12	<0.05	NC	NC	0.47	< 0.14	0.003	< 0.001	LAB	**2,425**	397	16,259	931
02/23/01	67	67	32.0	<5.0	0.19	<0.05	NC	NC	0.69	< 0.11	0.004	< 0.001	LAB	**2,445**	401	17,096	837
03/01/01	60	60	18.0	<5.0	0.097	<0.05	NC	NC	0.35	< 0.10	0.002	< 0.001	LAB	**2,448**	401	17,247	151
04/18/01	62	62	18.0	<5.0	0.1	<0.05	NC	NC	0.36	< 0.10	0.002	< 0.001	LAB	**2,465**	404	18,396	1,149
05/21/01	65	65	20.0	<5.0	0.088	<0.05	NC	NC	0.42	< 0.10	0.002	< 0.001	LAB	**2,477**	406	19,160	764
06/05/01	78	78	24.0	<5.0	0.15	<0.05	NC	NC	0.60	< 0.12	0.003	< 0.001	LAB	**2,485**	407	19,514	354
07/16/01	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,494**	409	20,157	643
08/24/01	45	45	19.0	<5.0	0.15	<0.05	NC	NC	0.27	< 0.07	0.002	< 0.001	LAB	**2,500**	410	21,098	941
09/06/01	50	50	37.0	<5.0	0.28	<0.05	NC	NC	0.59	< 0.08	0.004	< 0.001	LAB	**2,506**	411	21,406	308
11/23/01	60	60	<5.0	<5.0	0.11	<0.05	NC	NC	< 0.10	< 0.10	0.002	< 0.001	LAB	**2,518**	413	22,246	840
12/13/01	65	65	<5.0	<5.0	0.076	<0.05	NC	NC	< 0.10	< 0.10	0.001	< 0.001	LAB	**2,520**	413	22,728	482
01/29/02	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,525**	414	23,850	1,122
03/20/02	65	65	<5.0	<5.0	0.054	<0.05	NC	NC	< 0.10	< 0.10	0.001	< 0.001	LAB	**2,530**	415	25,054	1,204
04/18/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,533**	415	25,743	689
05/13/02	64	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,535**	416	26,358	615
06/13/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,538**	416	27,071	713
07/22/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,543**	417	28,027	956
08/21/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,546**	417	28,750	722
09/23/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,549**	418	29,536	787
10/21/02	69	69	7.3	<5.0	<0.05	<0.05	NC	NC	0.16	< 0.11	< 0.001	< 0.001	LAB	**2,553**	419	30,212	676
11/24/02	70	70	12.0	<5.0	0.064	<0.05	NC	NC	0.27	< 0.11	0.001	< 0.001	LAB	**2,560**	420	31,024	812
12/20/02	62	62	27.0	<5.0	0.18	<0.05	NC	NC	0.54	< 0.10	0.003	< 0.001	LAB	**2,571**	421	31,654	630
01/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,584**	424	32,613	959
02/20/03	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,586**	424	33,138	525
03/20/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,587**	424	33,426	288
04/22/03	65	65	5.6	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.10	< 0.001	< 0.001	LAB	**2,593**	425	34,600	1,175

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

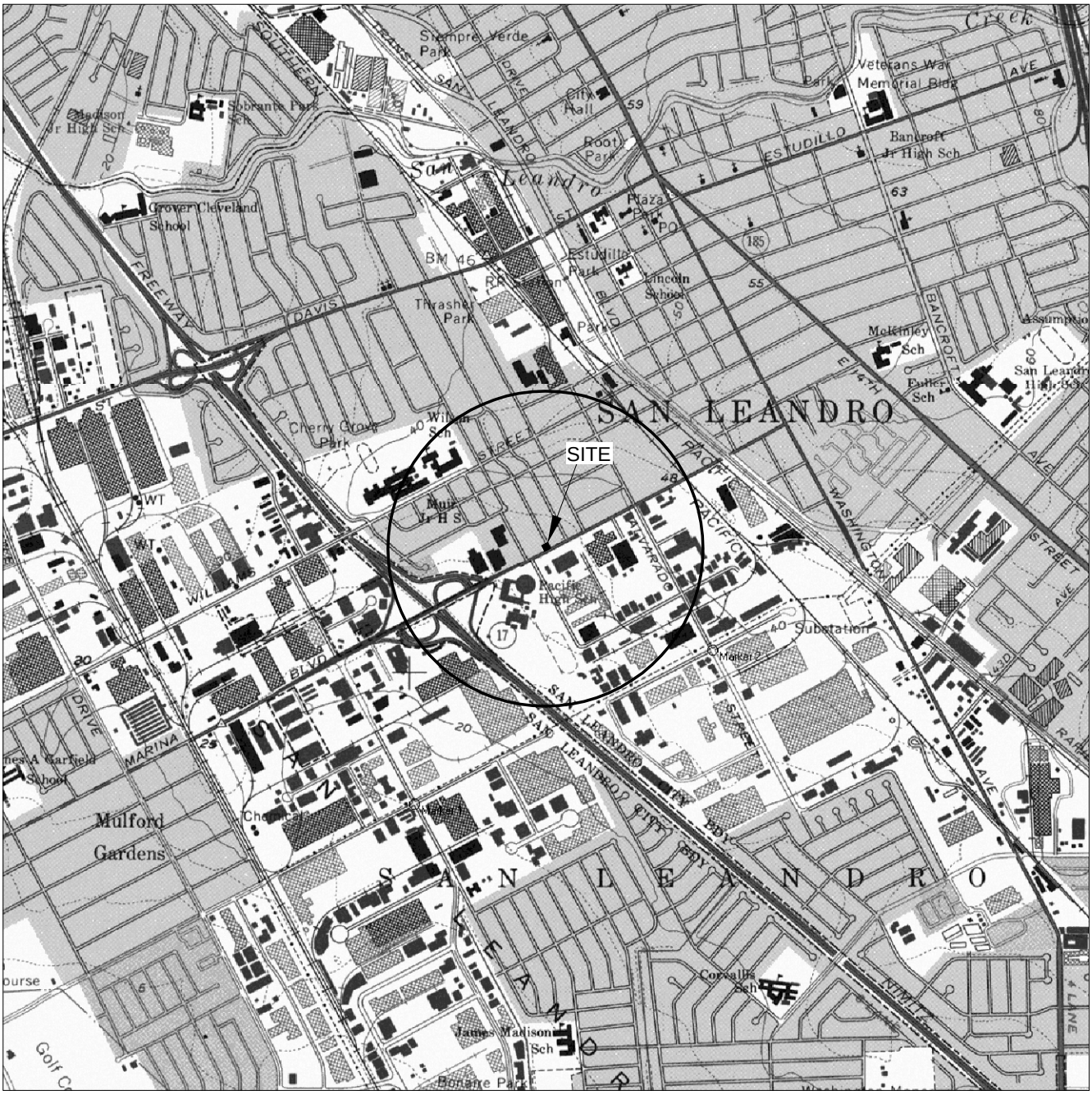
Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
05/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,597**	426	35,480	880
06/10/03	64	64	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,598**	426	35,776	296
07/21/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,602**	427	36,760	984
08/20/03	61	61	23.0	<5.0	0.18	<0.05	NC	NC	0.45	< 0.10	0.003	< 0.001	LAB	**2,610**	428	37,485	726
11/26/03	82	82	210.0	<5.0	0.86	<0.05	NC	NC	5.51	< 0.13	0.020	< 0.001	LAB	**2,664**	437	37,916	431
12/29/03	118	118	69.0	<5.0	0.21	<0.05	NC	NC	2.61	< 0.19	0.007	< 0.002	LAB	**2,802**	459	38,732	816
01/28/04	120	120	29.0	<5.0	0.13	<0.05	NC	NC	1.11	< 0.19	0.005	< 0.002	LAB	**2,858**	469	39,452	720
02/29/04	119	119	24.0	<5.0	0.12	<0.05	NC	NC	0.91	< 0.19	0.004	< 0.002	LAB	**2,890**	474	40,220	768
03/15/04	121	121	15.0	<5.0	0.13	<0.05	NC	NC	0.58	< 0.19	0.005	< 0.002	LAB	**2,902**	476	40,580	360
05/26/04	75	75	19.0	<5.0	0.13	<0.05	NC	NC	0.46	< 0.12	0.003	< 0.001	LAB	**2,925**	479	41,660	1,080
06/30/04	85	85	33.0	<5.0	0.15	<0.05	NC	NC	0.90	< 0.14	0.004	< 0.001	LAB	**2,949**	483	42,500	840
08/30/04	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,971**	487	43,580	1,080
09/19/04	72	72	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,973**	487	44,060	480
10/28/04	71	71	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,978**	488	44,996	936
11/23/04	80	80	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**2,981**	489	45,620	624
12/26/04	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,985**	489	46,412	792
01/26/05	78	78	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,989**	490	47,154	742
02/27/05	69	69	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,992**	491	47,922	768
03/24/05	75	75	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,995**	491	48,525	603
04/26/05	80	80	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**3,000**	492	49,341	816
05/30/05	75	75	14.0	<5.0	<0.05	<0.05	NC	NC	0.34	< 0.12	0.001	< 0.001	LAB	**3,008**	493	50,181	840
06/28/05	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,014**	494	50,901	720
07/28/05	70	70	58.0	<5.0	<0.05	<0.05	NC	NC	1.30	< 0.11	0.001	< 0.001	LAB	**3,035**	498	51,623	722
08/24/05	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,055**	501	52,276	653
09/29/05	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,058**	501	53,140	864
10/26/05	88	88	<5.0	<5.0	<0.05	<0.05	NC	NC	0.14	< 0.14	0.001	< 0.001	LAB	**3,062**	502	53,819	679
11/27/05	72	72	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**3,066**	503	54,590	771
12/27/05	82	82	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**3,070**	503	55,308	718
01/29/06	75	75	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**3,074**	504	56,097	789
02/27/06	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,077**	504	56,794	697
03/27/06	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,080**	505	57,468	674

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
04/25/06	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,083**	505	58,163	695

* The system was running on ambient air, thus change in hours are zero.
** The system was running on ambient air from 9/22/99 to 10/12/99, the change in hours only represents time the system was extracting soil vapor.
NC = Not Calculated



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
SAN LEANDRO, CA
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

SCALE 1:24,000

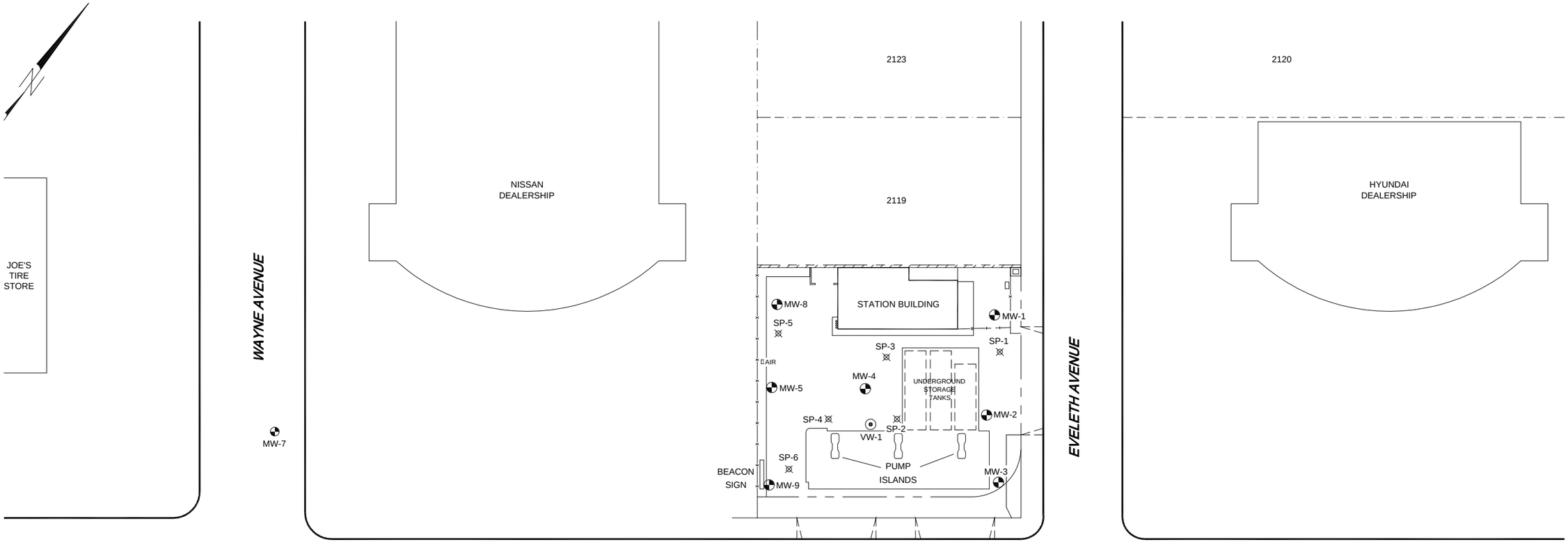
FIGURE 1

SITE LOCATION MAP

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/01
FILE NO. 00-3720-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95
   SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

APPROX. SCALE

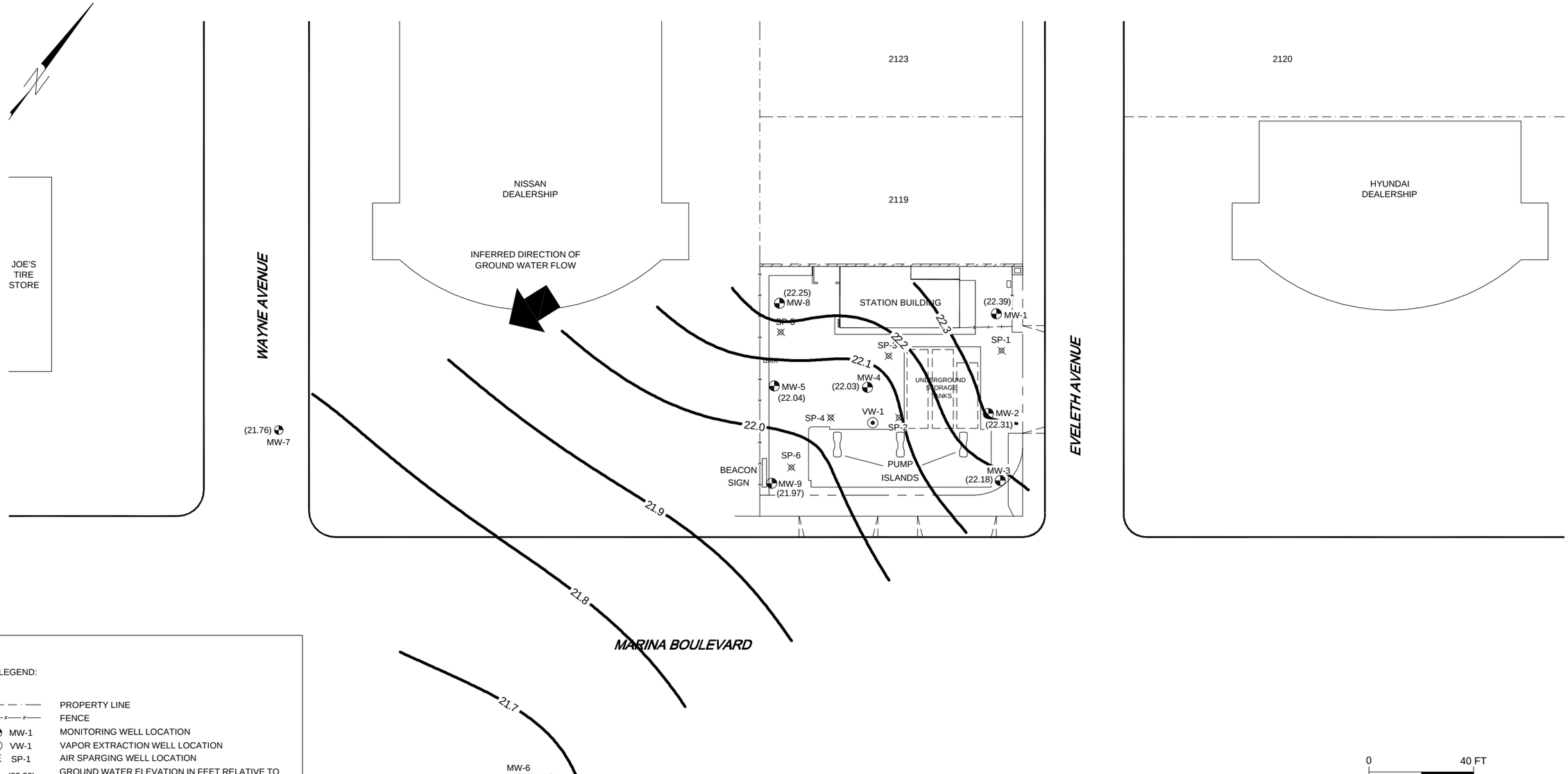
FIGURE 2

SITE MAP

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 5/19/04
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(22.39)	GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
22.0	WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

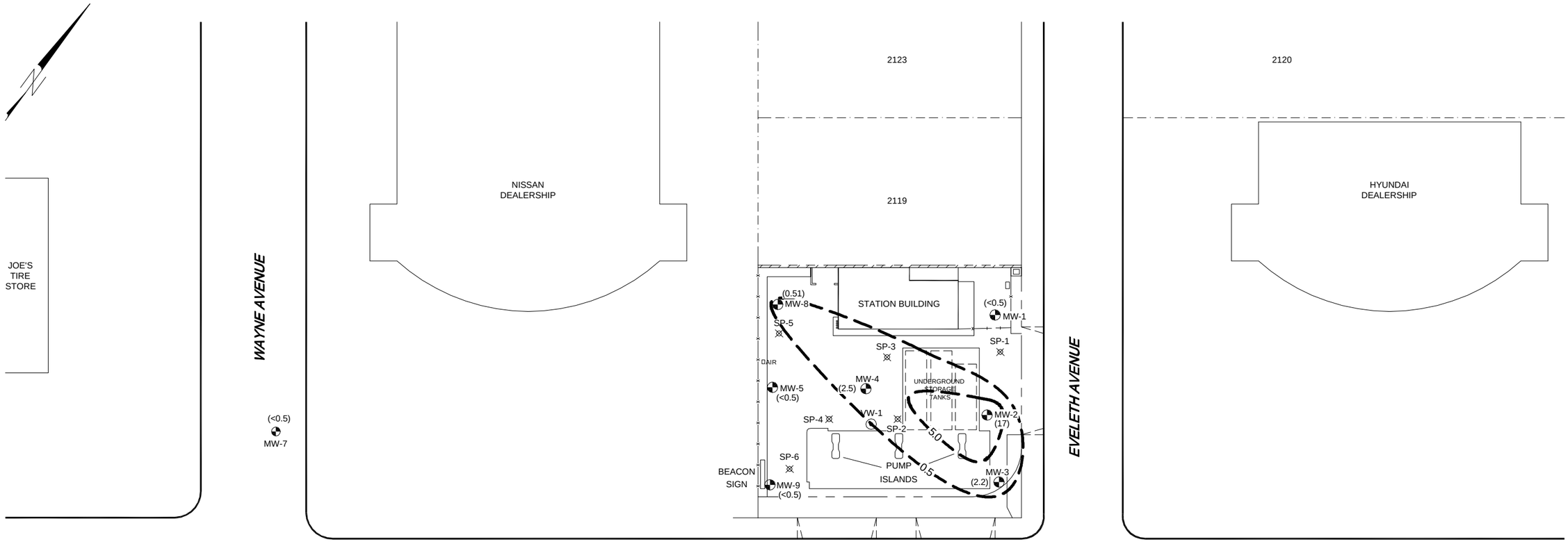
0 40 FT

APPROX. SCALE

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
8/13/06
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 10/10/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(17)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	BENZENE ISOCONCENTRATION CONTOUR

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

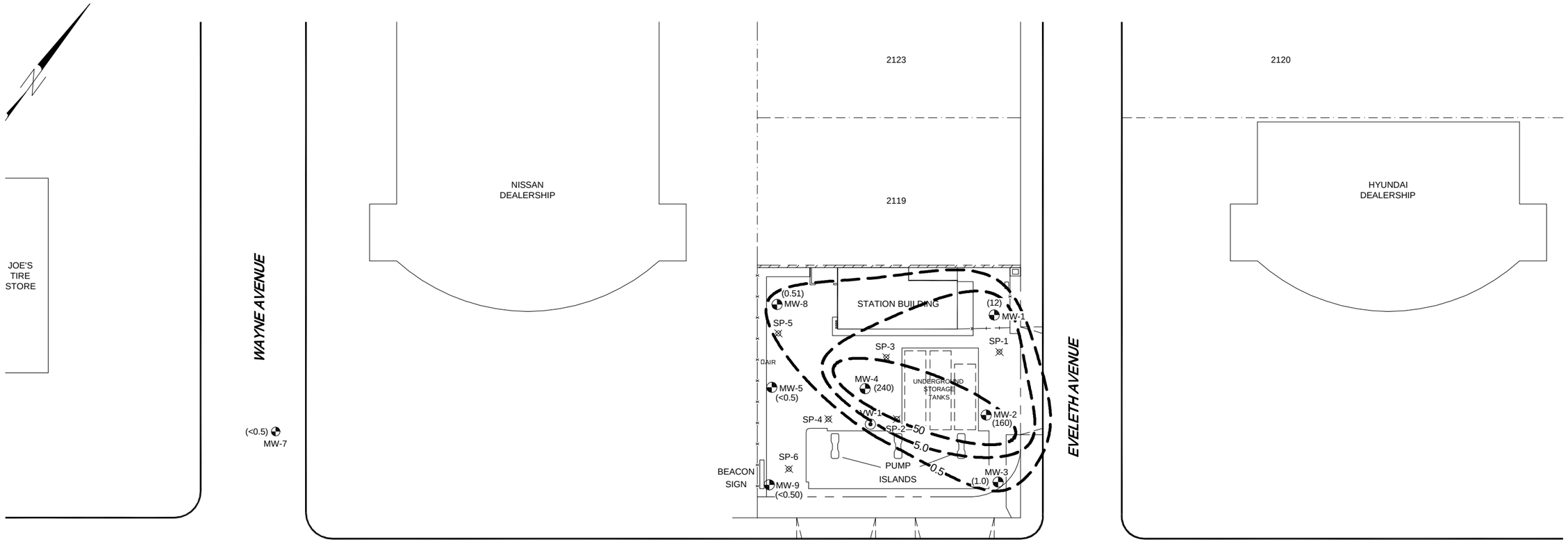
APPROX. SCALE

FIGURE 4
BENZENE ISO-CONCENTRATION MAP
8/13/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 10/10/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(240)	XYLENES CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	XYLENES ISOCONCENTRATION CONTOUR

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

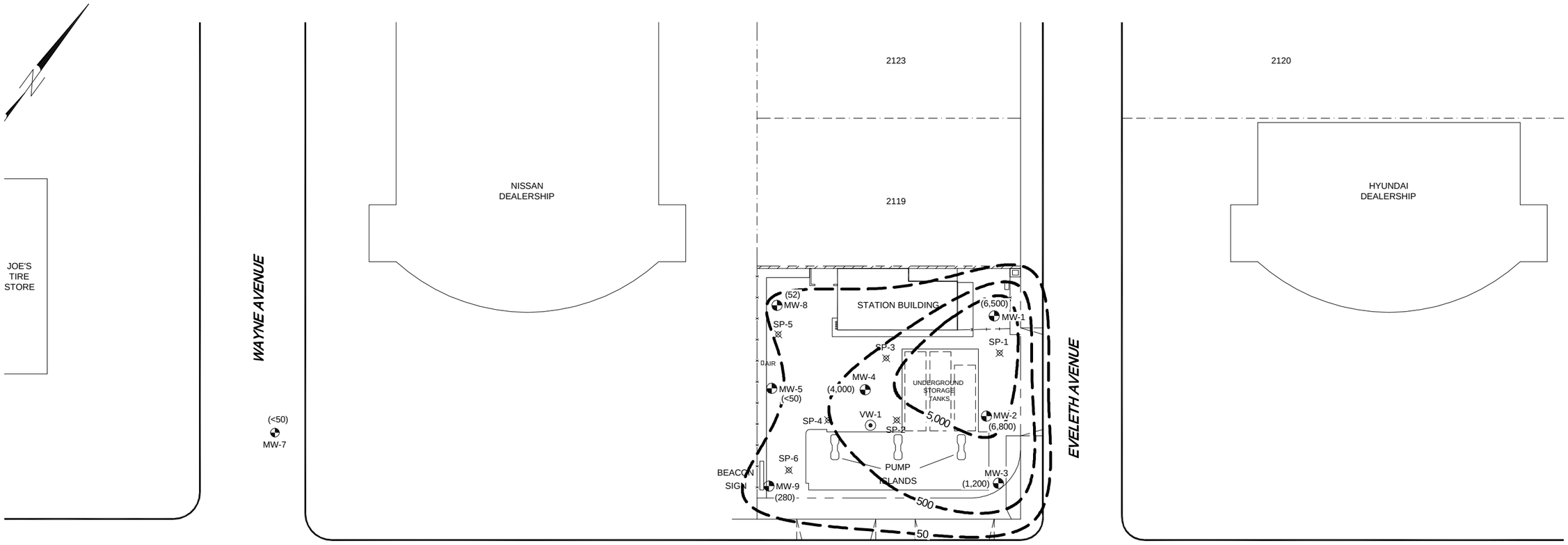
APPROX. SCALE

FIGURE 5
XYLENES ISOCONCENTRATION MAP
8/13/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 10/10/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(6,800)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	TPHg ISOCONCENTRATION CONTOUR

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

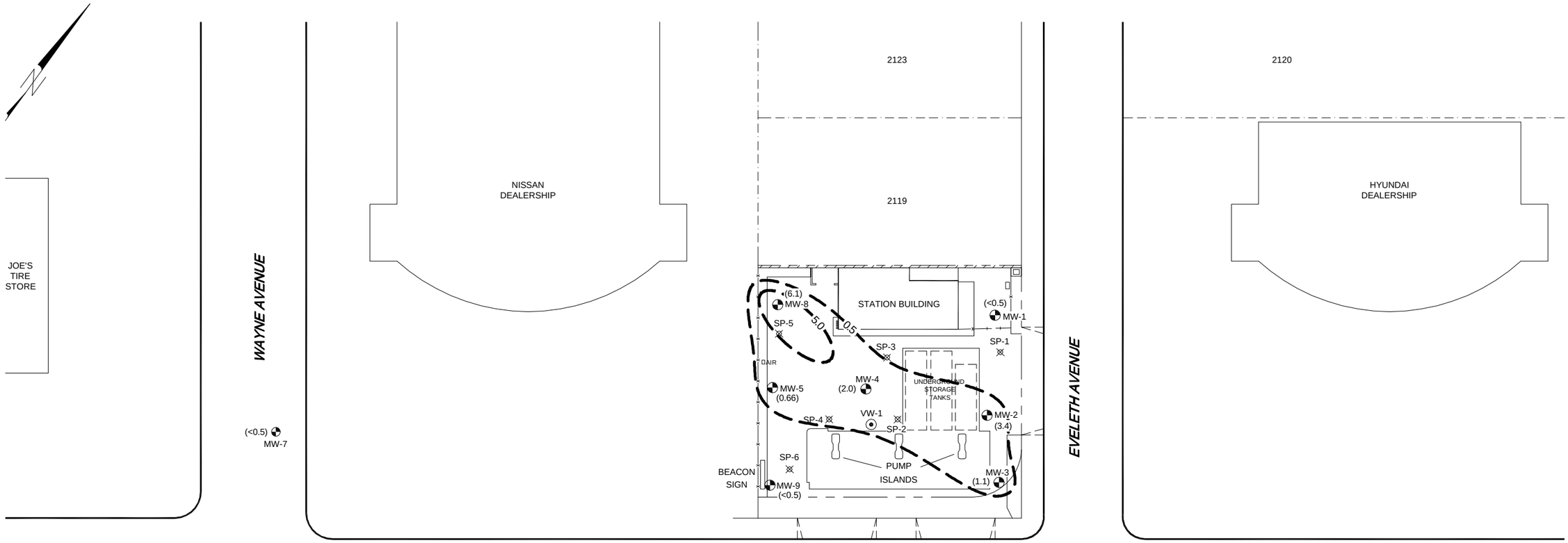
APPROX. SCALE

FIGURE 6
TPHg ISOCONCENTRATION MAP
1/13/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 4/6/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(6.0)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	MTBE ISOCONCENTRATION CONTOUR

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

APPROX. SCALE

FIGURE 7
MTBE ISOCONCENTRATION MAP
8/13/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 10/10/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental

Appendix A

Ground Water Sampling Data Sheets –
Quarterly Ground Water Samples

RDM ENVIRONMENTAL

GROUND WATER LEVEL DATA

Project Address: Tesoro Station 67106
1088 Marina Blvd., San Leandro, CA

Date: 8/13/2006

Technicians : SG/DH

Project Number: 02-67106

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-1	9	0910	13.08	17.74			
MW-2	8	0907	12.80	22.31			
MW-3	6	0903	12.66	28.4			
MW-4	7	0906	13.30	27.45			
MW-5	3	0857	13.05	28.8			
MW-6	1	0853	11.08	14.86			
MW-7	2	0855	11.88	25.45			
MW-8	5	0901	13.83	28.05			
MW-9	4	0859	12.66	24.6			

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-1
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0910 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	O/S 1.ne
Height of Riser	6"		
Well Box 8" (12") 24"		Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer	X	Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	X	4"		6"		8"
Purge Vol. Multiplier		0.16		0.65		1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	2.24
Time:	0910	Time:		Actual Purge	4.00
Depth of Well	17.74	Depth to Water			
Depth to Water	13.08				

Sample

Start Purge: 1622 Sample Time: 1638

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1624	66.6	6.97	227	1.11	-84	1.2		1
1628	67.5	6.88	232	1.07	-81	1.4		2
1633	66.3	6.84	228	1.00	-89	1.4		3

Sample Appearance: Clear Lock: N/A.

Equipment Replacement

Lock	N/A	Well Cap	ok	Bolts	-2	Box	ok

Remarks:

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-2
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0907 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	2"		
Well Box	8" (12") 24"	Type of well box	Pumco

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	4.56
Time:	0907	Time:		Actual Purge	6.0
Depth of Well	22.31	Depth to Water			
Depth to Water	12.80				

Sample

Start Purge 1546 Sample Time 1605

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1550	72.8	6.70	239	0.65	-113	2.0		1
1557	73.0	6.71	240	0.67	-119	1.8		2
1600	73.2	6.71	239	0.72	-120	1.8		3

Sample Appearance CLOUDY Lock OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	-1	Box	1 bolt sheared in threads

Remarks:

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-3
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0903 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) ~~No~~	Remark:	
Height of Riser	2"		
Well Box 8" (12") 24"		Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	7.56
Time:	0903	Time:		Actual Purge	8.5
Depth of Well	28.4	Depth to Water			
Depth to Water	12.66				

Sample

Start Purge 1408 Sample Time 1427

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1413	69.4	6.82	276	0.51	-199	1.6		1
1416	71.9	6.79	274	0.52	-185	1.4		2
1421	72.5	6.72	262	0.47	-183	1.4		3

Sample Appearance Clear Lock ON

Equipment Replacement

Lock ON Well Cap ON Bolts ON Box OK

Remarks:

RDM ENVIRONMENTAL SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-4
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0906 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	OZONE SPARGE POINT
Height of Riser	2"		
Well Box	8" 12" (24")	Type of well box	Not marked

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	6.79
Time:	0906	Time:		Actual Purge	7.0
Depth of Well	27.45	Depth to Water			
Depth to Water	13.30				

Sample

Start Purge	1450	Sample Time	1528

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1507	68.5	7.08	509	2.41	-19	—		1
1512	68.2	7.04	475	2.86	-17	—		2
1521	68.0	7.17	499	2.88	-14	—		3

Sample Appearance	CLOUDY	Lock	N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	-1	Box	OK

Remarks:- Dewatered by pump at 2 gallons at 1453. Allowed 10 minute recharge this bailed to Tag
- Too much silt in water for Fe+2 color comparison

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-5
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0857 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	Quick sprue point
Height of Riser	1"		
Well Box 8" 12" (24")		Type of well box	Not marked

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	7.56
Time:	0857	Time:		Actual Purge	7.15
Depth of Well	28.8	Depth to Water			
Depth to Water	13.05				

Sample

Start Purge 1101 Sample Time 1126

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1109	71.8	6.90	689	2.28	79	0		1
1115	72.7	6.86	668	2.16	75	0		2
1121	72.0	6.87	659	1.92	72	0		3

Sample Appearance CLOUDY Lock N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	-4	Box	OK

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-6
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0853 hours
Standing water	(Yes) No	above or (below) casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	7"		
Well Box 8" (12") 24"		Type of well box	Fumco

Purging/Sampling Equipment

Purging -

2" Disposable Bailer	X	Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter: 2"	X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	1.81
Time:	0853	Time:		Actual Purge	2.25
Depth of Well	14.86	Depth to Water			
Depth to Water	11.08				

Sample

Start Purge	0933	Sample Time	0955

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
0938	67.7	6.87	1067	2.58	47	0		1
0944	67.1	6.91	1045	2.36	44	0		2
0948	66.9	6.86	1052	2.42	42	0		3

Sample Appearance	CLEAR	Lock	OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	-3	Box	OK

Remarks:

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-7
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0855 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	9"		
Well Box	8" (12") 24"	Type of well box	Pomeco

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	6.51
Time:	0955	Time:		Actual Purge	8.0
Depth of Well	25.45	Depth to Water			
Depth to Water	11.88				

Sample

Start Purge 1022 Sample Time 1042

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1026	70.0	6.73	455	0.46	44	0		1
1033	70.4	6.68	455	0.91	43	0		2
1036	70.9	6.66	456	0.96	46	0		3

Sample Appearance CLEAR Lock 04

Equipment Replacement

Lock	04	Well Cap	04	Bolts	-3	Box	missing one thread

Remarks:

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-8
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0901 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	5"		
Well Box	8" (12") 24"	Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter: 2"	X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	6.83
Time:	0901	Time:		Actual Purge	8.5
Depth of Well	28.05	Depth to Water			
Depth to Water	13.83				

Sample

Start Purge 1312 Sample Time 1330

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1316	70.1	6.86	716	0.89	-30	0.6		1
1319	69.9	6.86	742	0.84	-32	0.6		2
1325	70.9	6.86	787	0.80	-35	0.6		3

Sample Appearance CLEAR Lock OK

Equipment Replacement

Lock	OK	Well Cap	OK	Bolts	OK	Box	OK

Remarks:

Client:	Tesoro	Sample Data:	8/13/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-9
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0959 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	Yes (No)	Remark:	Air space point
Height of Riser	4"		
Well Box 8" 12" (24")		Type of well box	Not marked

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

Well Diameter:	2"		4"	X	6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	23.3
Time:	0859	Time:		Actual Purge	29.5
Depth of Well	24.6	Depth to Water			
Depth to Water	12.66				

Sample

Start Purge: 1231 Sample Time: 1258

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1237	68.9	7.02	413	1.50	123	0		1
1240	68.9	7.01	410	1.99	36	0		2
1245	68.9	6.99	412	2.16	33	0		3
1252	68.8	6.99	416	2.18	34	0		4

Sample Appearance: Cloudy Lock: N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	-2	Box	1 bolt sheared off in threads

Remarks:

Appendix B

Official Laboratory Analytical Results –
Quarterly Ground Water Samples

KIFF Analytical LLC

Report Number : 51629
Date : 8/18/2006

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 9 Water Samples
Project Name : 67106
Project Number : 67106

Dear Mr. Munsch,

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

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

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 51629
Date : 8/18/2006

Subject : 9 Water Samples
Project Name : 67106
Project Number : 67106

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-2, MW-3, MW-5, MW-6, MW-7, MW-8 and MW-9 for the analyte Tert-Butanol were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-1** Matrix : Water Lab Number : 51629-01

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Toluene	**0.57**	0.50	ug/L	EPA 8260B	8/16/2006
Ethylbenzene	**40**	0.50	ug/L	EPA 8260B	8/16/2006
Total Xylenes	**12**	0.50	ug/L	EPA 8260B	8/16/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/16/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/16/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/16/2006
TPH as Gasoline	**5200**	150	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	93.3		% Recovery	EPA 8260B	8/16/2006
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	8/16/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-2** Matrix : Water Lab Number : 51629-02

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**17**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**6.4**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**520**	1.5	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**160**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**3.4**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**7700**	150	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	87.7		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-3** Matrix : Water Lab Number : 51629-03

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.2**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**0.62**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**1.6**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**1.0**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**1.1**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**5.5**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**1700**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 51629
Date : 8/18/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-4** Matrix : Water Lab Number : 51629-04

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.5**	0.50	ug/L	EPA 8260B	8/16/2006
Toluene	**20**	0.50	ug/L	EPA 8260B	8/16/2006
Ethylbenzene	**41**	0.50	ug/L	EPA 8260B	8/16/2006
Total Xylenes	**240**	0.50	ug/L	EPA 8260B	8/16/2006
Methyl-t-butyl ether (MTBE)	**2.0**	0.50	ug/L	EPA 8260B	8/16/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/16/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/16/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/16/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/16/2006
TPH as Gasoline	**1200**	50	ug/L	EPA 8260B	8/16/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/16/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	8/16/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-5** Matrix : Water Lab Number : 51629-05

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**0.58**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**0.66**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**140**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/15/2006

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KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-6** Matrix : Water Lab Number : 51629-06

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 51629
Date : 8/18/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-7** Matrix : Water Lab Number : 51629-07

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 51629
Date : 8/18/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-8** Matrix : Water Lab Number : 51629-08

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.51**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**0.84**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**0.51**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**6.1**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**77**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 51629

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-9** Matrix : Water Lab Number : 51629-09

Sample Date :8/13/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	**1.7**	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	8/15/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	**1000**	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	8/15/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51629

Date : 8/18/2006

QC Report : Method Blank Data

Project Name : **67106**

Project Number : **67106**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/14/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/15/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/14/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/14/2006
Methanol	< 50	50	ug/L	EPA 8260B	8/14/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	8/14/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/14/2006
Toluene - d8 (Surr)	100		%	EPA 8260B	8/14/2006
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	8/14/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/15/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/15/2006
Methanol	< 50	50	ug/L	EPA 8260B	8/15/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	8/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/15/2006
Toluene - d8 (Surr)	100		%	EPA 8260B	8/15/2006
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	8/15/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51629

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

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	51601-02	<0.50	39.9	40.0	39.2	40.2	ug/L	EPA 8260B	8/14/06	98.3	100	2.25	70-130	25
Toluene	51601-02	<0.50	39.9	40.0	40.1	40.8	ug/L	EPA 8260B	8/14/06	100	102	1.49	70-130	25
Tert-Butanol	51601-02	<5.0	200	200	177	184	ug/L	EPA 8260B	8/14/06	88.7	91.8	3.40	70-130	25
Methyl-t-Butyl Ether	51601-02	<0.50	39.9	40.0	34.0	33.3	ug/L	EPA 8260B	8/14/06	85.1	83.3	2.19	70-130	25
Benzene	51622-04	<0.50	39.9	39.9	43.1	43.8	ug/L	EPA 8260B	8/15/06	108	110	1.56	70-130	25
Toluene	51622-04	<0.50	39.9	39.9	41.2	42.0	ug/L	EPA 8260B	8/15/06	103	105	1.94	70-130	25
Tert-Butanol	51622-04	<5.0	200	200	197	202	ug/L	EPA 8260B	8/15/06	98.7	101	2.72	70-130	25
Methyl-t-Butyl Ether	51622-04	<0.50	39.9	39.9	35.5	36.0	ug/L	EPA 8260B	8/15/06	89.0	90.3	1.38	70-130	25
Benzene	51619-10	6.2	40.0	40.0	46.8	46.0	ug/L	EPA 8260B	8/14/06	101	99.3	2.00	70-130	25
Toluene	51619-10	1.0	40.0	40.0	41.8	41.5	ug/L	EPA 8260B	8/14/06	102	101	0.675	70-130	25
Tert-Butanol	51619-10	1400	200	200	1500	1510	ug/L	EPA 8260B	8/14/06	54.2	62.2	13.7	70-130	25
Methyl-t-Butyl Ether	51619-10	400	40.0	40.0	437	442	ug/L	EPA 8260B	8/14/06	103	115	11.0	70-130	25
Benzene	51645-01	<0.50	40.0	40.0	41.0	40.4	ug/L	EPA 8260B	8/15/06	102	101	1.46	70-130	25
Toluene	51645-01	<0.50	40.0	40.0	41.3	41.1	ug/L	EPA 8260B	8/15/06	103	103	0.490	70-130	25
Tert-Butanol	51645-01	<5.0	200	200	198	196	ug/L	EPA 8260B	8/15/06	99.2	97.9	1.31	70-130	25
Methyl-t-Butyl Ether	51645-01	<0.50	40.0	40.0	38.9	39.0	ug/L	EPA 8260B	8/15/06	97.2	97.5	0.275	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 51629

QC Report : Laboratory Control Sample (LCS)

Date : 8/18/2006

Project Name : **67106**

Project Number : **67106**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/14/06	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	8/14/06	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/14/06	95.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/14/06	87.4	70-130
Benzene	40.0	ug/L	EPA 8260B	8/15/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	8/15/06	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/15/06	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/15/06	89.3	70-130
Benzene	40.0	ug/L	EPA 8260B	8/14/06	101	70-130
Toluene	40.0	ug/L	EPA 8260B	8/14/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/14/06	98.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/14/06	98.6	70-130
Benzene	40.0	ug/L	EPA 8260B	8/15/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	8/15/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/15/06	98.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/15/06	97.8	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Analysis Summary

Report Number : 51629

Date : 8/18/2006

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :67106
Project Number : 67106

			Sample Name	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8	
			Sample Date	8/13/2006		8/13/2006		8/13/2006		8/13/2006		8/13/2006		8/13/2006		8/13/2006		8/13/2006	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L		0.50	ND	0.50	**17**	0.50	**2.2**	0.50	**2.5**	0.50	ND	0.50	ND	0.50	ND	0.50	**0.51**
Toluene	EPA 8260B	ug/L		0.50	**0.57**	0.50	**6.4**	0.50	**0.62**	0.50	**20**	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L		0.50	**40**	1.5	**520**	0.50	**1.6**	0.50	**41**	0.50	**0.58**	0.50	ND	0.50	ND	0.50	**0.84**
Total Xylenes	EPA 8260B	ug/L		0.50	**12**	0.50	**160**	0.50	**1.0**	0.50	**240**	0.50	ND	0.50	ND	0.50	ND	0.50	**0.51**
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L		0.50	ND	0.50	**3.4**	0.50	**1.1**	0.50	**2.0**	0.50	**0.66**	0.50	ND	0.50	ND	0.50	**6.1**
Diisopropyl ether (DIPE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L		5.0	ND	5.0	ND	5.0	**5.5**	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
Methanol	EPA 8260B	ug/L		50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND
Ethanol	EPA 8260B	ug/L		5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L		150	**5200**	150	**7700**	50	**1700**	50	**1200**	50	**140**	50	ND	50	ND	50	**77**
Toluene - d8 (Surr)	EPA 8260B	%			93.3		87.7		96.7		100		100		100		100		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%			99.7		104		101		101		102		102		102		102

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

KIFF Analytical LLC

Analysis Summary

Report Number : 51629

Date : 8/18/2006

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :67106
Project Number : 67106

			Sample Name	MW-9
			Sample Date	8/13/2006
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	**1.7**
Total Xylenes	EPA 8260B	ug/L	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND
Methanol	EPA 8260B	ug/L	50	ND
Ethanol	EPA 8260B	ug/L	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	**1000**
Toluene - d8 (Surr)	EPA 8260B	%		100
4-Bromofluorobenzene (Surr)	EPA 8260B	%		105

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

Calscience
Environmental
Laboratories, Inc.

August 21, 2006

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

Subject: **Calscience Work Order No.: 06-08-0922**
Client Reference: 67106

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/16/2006 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/16/06
Work Order No: 06-08-0922
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-1	**06-08-0922-1**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	14.7	0.1	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-2	**06-08-0922-2**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	25.5	0.1	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3	**06-08-0922-3**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	3.47	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-08-0922-4**	**08/13/06**	**Aqueous**	**08/16/06**	**08/21/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	308	5	50		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	**06-08-0922-5**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	2.49	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6	**06-08-0922-6**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/16/06
Work Order No: 06-08-0922
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	**06-08-0922-7**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	0.732	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-8	**06-08-0922-8**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	2.67	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-9	**06-08-0922-9**	**08/13/06**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	4.69	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-6,401**	**N/A**	**Aqueous**	**08/16/06**	**08/17/06**	**060816L04**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/16/06
Work Order No: 06-08-0922

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-1	**06-08-0922-1**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	8.8	1.0	1		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.86	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	2.7	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	94	1.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-2	**06-08-0922-2**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	7.2	1.0	1		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.78	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	3.2	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	120	5.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-3	**06-08-0922-3**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	9.0	1.0	1		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.84	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	2.4	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	94	1.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-4	**06-08-0922-4**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	15	2	2		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.54	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	3.7	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	180	5.0	1		mg/L	N/A	08/18/06	SM 2320B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/16/06
Work Order No: 06-08-0922

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-5	**06-08-0922-5**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	16	2	2		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.46	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	2.5	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	350	5.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-6	**06-08-0922-6**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	27	5	5		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.38	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	4.9	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	480	5.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-7	**06-08-0922-7**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	11	2	2		mg/L	N/A	08/17/06	EPA 300.0
Fluoride	0.42	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	2.0	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	180	5.0	1		mg/L	N/A	08/18/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-8	**06-08-0922-8**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	50	10	10		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.41	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	3.6	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	370	5.0	1		mg/L	N/A	08/18/06	SM 2320B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 08/16/06
Work Order No: 06-08-0922

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-9	**06-08-0922-9**	**08/13/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	9.0	1.0	1		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	0.61	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	2.6	0.5	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	180	5.0	1		mg/L	N/A	08/18/06	SM 2320B

Method Blank			**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	ND	1.0	1		mg/L	N/A	08/16/06	EPA 300.0
Fluoride	ND	0.10	1		mg/L	N/A	08/18/06	EPA 340.2
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	08/16/06	EPA 415.1
Alkalinity, Total (as CaCO3)	ND	1.0	1		mg/L	N/A	08/18/06	SM 2320B

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 08/16/06
Work Order No: 06-08-0922
Preparation: EPA 3010A Total
Method: EPA 6010B

Project 67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-08-0853-1	**Aqueous**	**ICP 3300**	**08/16/06**	**08/17/06**	**060816S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	111	109	65-149	2	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: N/A
Work Order No: 06-08-0922

Project: 67106

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	MW-1	08/16/06	N/A	93	94	56-134	0	0-3	
Fluoride	EPA 340.2	MW-4	08/18/06	N/A	96	96	70-130	0	0-25	
Carbon, Total Organic	EPA 415.1	06-08-0920-1	08/16/06	N/A	103	101	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

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

Date Received: N/A
Work Order No: 06-08-0922

Project: 67106

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	SM 2320B	06-08-1026-1	08/18/06	880	880	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	06-08-1026-1	08/18/06	880	880	0	0-25	
Carbonate (as CaCO3)	SM 2320B	06-08-1026-1	08/18/06	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	06-08-1026-1	08/18/06	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	06-08-0922
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 67106

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-6,401	**Aqueous**	**ICP 3300**	**08/17/06**	**060816-I-04**	**060816L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Iron	0.500	0.510	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 06-08-0922

Project: 67106

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-3,531	N/A	08/16/06	94	94	81-111	1	0-5	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

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

Date Received: N/A
Work Order No: 06-08-0922

Project: 67106

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Fluoride	EPA 340.2	097-01-022-316	08/18/06	N/A	0.50	0.50	101	80-120	
Carbon, Total Organic	EPA 415.1	099-05-097-2,374	08/16/06	N/A	5.0	5.1	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-08-0922

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

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 0922

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Troy Turpen

EDF Report? _X_ Yes __No

Company/Address: Kiff Analytical, LLC

Recommended but not mandatory to complete this section:

Sampling Company Log Code: RDMR

Global ID: T0600101409

Phone No.: | FAX No.:

EDF Deliverable to (Email Address): inbox@kiffanalytical.com

Project Number: 67106 | P.O. No.: 51629

E-mail address: inbox@kiffanalytical.com

Project Name: 67106

Project Address:

Sample Designation	Sampling Date	Sampling Time	Container: Glass	Container: Poly	Container: Sleeve	Container: Amber	Container:	Preservative: HCl	Preservative: HNO3	Preservative: H_2SO_4	Preservative: NONE	Preservative: $Na_2S_2O_3$	Matrix: WATER	Matrix: SOIL	Matrix:	Analysis Request: Alkalinity by SM2320B	Total Organic Carbon byEPA 415.1	Total Iron by EPA 6010	Fluoride (EPA 340.2)	Chloride (EPA 300.0)				Date due: August 21, 2006	For Lab Use Only
MW-1	8/13/06	16:38	1	2					1	1	1		X			X	X	X	X	X				X	
MW-2	8/13/06	16:05	1	2					1	1	1		X			X	X	X	X	X				X	
MW-3	8/13/06	14:27	1	2					1	1	1		X			X	X	X	X	X				X	
MW-4	8/13/06	15:28	1	2					1	1	1		X			X	X	X	X	X				X	
MW-5	8/13/06	11:26	1	2					1	1	1		X			X	X	X	X	X				X	
MW-6	8/13/06	09:55	1	2					1	1	1		X			X	X	X	X	X				X	
MW-7	8/13/06	10:42	1	2					1	1	1		X			X	X	X	X	X				X	
MW-8	8/13/06	13:30	1	2					1	1	1		X			X	X	X	X	X				X	
MW-9	8/13/06	12:58	1	2					1	1	1		X			X	X	X	X	X				X	

Relinquished by: [signature] KIFF Analytical	Date 8/15/06	Time 1900	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 8/16/06	Time 0600	Received by Laboratory: [signature]	Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 08 - 0922

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Tiffr DATE: 8/16/06

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

4.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 51629

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsch.	California EDF Report? ☐ Yes ☐ No
Company / Address: RDM Env.	Sampling Company Log Code:
Phone #: 916 415 1134 — Fax #: 916 415 1154	Global ID:
Project #: 67106 — P.O. #: —	EDF Deliverable To (Email Address):
Project Name: 67106	Sampler Signature: [signature]
Project Address: 1088 Marina San Leandro	

Sample Designation	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO_3	None	H_2SO_4	Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	~~W.E.T. Lead (STLC)~~ T.O.C.	Alkalinity	Total Iron	Dissolv. CO_2	TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk	For Lab Use Only
mw-1	8/13/06	1634	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		01
mw-2	↓	1605	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		02
mw-3	↓	1427	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		03
mw-4	↓	1528	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		04
mw-5	↓	1126	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		05
mw-6	↓	0955	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		06
mw-7	↓	1042	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		07
mw-8	↓	1330	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		08
mw-9	↓	1258	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		09

Relinquished by:	Date	Time	Received by:
Douglas Hoff			
Relinquished by:	Date	Time	Received by:
—			
Relinquished by:	Date	Time	Received by Laboratory:
—	081406	1457	[signature] Kiff Analytical

Remarks: STAT

Email Copy to RDM

Bill to: Tesoro / Rob Donovan

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2.4	AOG	081406	1723	IR-5	(Yes) / No

Distribution: White - Lab; Pink - Originator
Rev: 051805