Carryl MacLeod
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RECEIVED
By Alameda County Environmental Health at 3:31 pm, Jul 29, 2014

July 28, 2014

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Texaco Service Station 211253
930 Springtown Boulevard
Livermore, California
ACEHS Case No. RO0189

I accept the *Low-Threat Closure Request*.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This Low-Treat Closure Request was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Carryl MacLeod
Project Manager

Attachment: *Low-Threat Closure Request*

CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

July 28, 2014 Reference No. 060058

Mr. Jerry Wickham
Alameda County Environmental Health Services (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Low-Threat Case Closure Request
Former Texaco Station 211253
930 Springtown Boulevard
Livermore, California
ACEH Case RO0189

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Low-Threat Case Closure Request* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). The purpose of this closure request is to present our evaluation of current site conditions to the general and media-specific closure criteria included in the recently adopted State Water Resources Control Board (SWRCB) *Low-Threat Underground Storage Tank Case Closure Policy* (the "policy"). Based on CRA's review of current site conditions, the site meets the criteria for low-threat closure specified in the SWRCB policy. An evaluation of the site conditions to the policy case closure criteria in support of our request for site closure is presented below.

SITE DESCRIPTION AND BACKGROUND

The site is a former Texaco service station located on the south corner of Springtown Boulevard and Lassen Road in Livermore, California (Figure 1). In mid-1985, Texaco sold the site to Southland Corporation who removed the underground storage tanks (USTs), dispenser islands, and product piping and constructed a 7-Eleven convenience store. The site is still occupied by the 7-Eleven convenience store and a paved parking area (Figure 2). No fuel is currently stored or dispensed at the site. The site is bordered by commercial property to the north, residential properties to the west, a hotel to the south/southeast, and a former ARCO Service Station (now an active Chevron-branded service station) to the east (environmental case RO0001050, closed July 18, 2012). A summary of previous environmental work at the site is included as Attachment A.

PURPOSE OF THE LOW-THREAT UNDERGROUND STORAGE TANK CASE CLOSURE POLICY

On August 17, 2012, the SWRCB adopted the policy via Resolution 2012-0016. The intent of the policy is to increase cleanup process efficiency at petroleum release sites. A benefit of improved efficiency is the preservation of limited resources for mitigation of releases posing the greatest threat to human and environmental health. Per the policy, sites that meet the specified general and media-specific criteria pose a low threat to human health, safety, and the environment and are appropriate for case closure pursuant to Health and Safety Code section 25296.10. The policy further states that those sites that meet the criteria for low-threat closure do not require further corrective action and shall be issued a uniform closure letter. The general and media-specific criteria are described below.

GENERAL CRITERIA

The eight general criteria that must be satisfied by all candidate sites, and the site-specific evaluation for each of these criteria, are presented below.

a) The unauthorized release is located within the service area of a public water system.
Satisfied: Water for the site and surrounding vicinity is provided by the City of Livermore who obtains surface water from the State Water Project in the Sacramento-San Joaquin Delta and groundwater wells in Pleasanton, which are located greater than 1,000 feet from the site.

b) *The unauthorized release consists only of petroleum*.
Satisfied: The unauthorized release at the site has been characterized as a release of petroleum-based products (gasoline and related constituents).

c) The unauthorized ("primary") release from the UST system has been stopped.
Satisfied: Petroleum storage and handling facilities that were the suspected source of the release (USTs) were removed from the site in 1985. It is assumed that the associate product piping and dispenser were removed at the same time to facilitate site redevelopment, however no documentation was found to confirm this.

d) *Free product has been removed to the maximum extent practicable*.
Satisfied: Light non-aqueous phase liquid (LNAPL) has not been observed in well MW-14 since August 8, 2012 (Attachment B). Sorbent socks placed in the well beginning in May 2012 through July 2013 appear to have removed the limited LNAPL present at the site.

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

Satisfied: The elements of a conceptual site model (CSM) have been previously presented in CRA's *Site Conceptual Model and Work Plan* submitted on March 30, 2011, and *Soil Vapor Investigation* submitted on June 5, 2013.

f) Secondary source has been removed to the extent practicable.

Satisfied: In September 1994 through October 1995, a soil vapor extraction system operated at the site. Data detailing petroleum hydrocarbon mass removal was not calculated during the SVE system operation. However, TPHg and benzene concentrations were graphically presented to show the effectiveness of the SVE system in removing petroleum hydrocarbons from the vadose zone soil (KHM Environmental Management, Inc, *Case Closure*, December 10, 2001).

In 2009, the Zone 7 water agency excavated to approximately 15 fbg along Springtown Boulevard to install the Altamont water pipeline. Approximately 240 cubic yards of petroleum hydrocarbon-impacted soil was removed and disposed of by Zone 7 water agency.

Sorbent socks were inititially installed on May 29, 2012 in well MW-14 to remove residual LNAPL. Approximately 5 gallons of LNAPL were removed from well MW-14 over a 4 month period. LNAPL has not been observed since August 2012.

g) Soil and groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15.

Satisfied: Samples collected during subsurface investigations have been analyzed for MTBE, and reported in accordance with Health and Safety Code section 25296.15.

h) Nuisance as defined by Water Code section 13050 does not exist at the site.

Satisfied: Conditions defined as a "nuisance" in Water Code section 13050 do not exist at the site.

MEDIA-SPECIFIC CRITERIA

Impacts to human health and the environment can occur due to releases from USTs through contact with contaminated media (groundwater, surface water, soil, and soil vapor) via various exposure pathways. In the policy, the most common exposure scenarios have been combined into three media-specific criteria:

1. Groundwater
2. Vapor Intrusion to Indoor Air

3. Direct Contact and Outdoor Air Exposure

GROUNDWATER

It is a fundamental tenet of the policy that if the closure criteria described in the policy are satisfied at an unauthorized petroleum release site, attaining background water quality is not feasible, and applicable water quality objectives (WQOs) will be attained through natural attenuation within a reasonable amount of time, prior to the expected need for use of any affected groundwater. If a site has groundwater with a designated beneficial use that is affected by an unauthorized release, to satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds WQOs must be stable or decreasing in aerial extent, and meet all of the additional characteristics of one of the five classes of sites listed in the policy:

Satisfied: The site satisfies the characteristics of Class 2.

a. The contaminant plume that exceeds WQOs is less than 250 feet in length. The plume appears to be confined to the site boundaries. Impacted groundwater is defined by former downgradient offsite shallow zoned wells MW-4, MW-6, and MW-8, and shallow to deep zoned CPT grab-groundwater samples (Attachments B and C). Furthermore, with the exception of low TPHg concentrations detected in August 2010 (68 µg/L), and August 2011 (66 µg/L), TPHg nor BTEX have been reported in samples from downgradient active well MW-16 since 2010.
b. There is no free product. Sorbent socks were installed on May 29, 2012 and captured approximately 5 gallons of LNAPL during the 4 month period. Free product has not been observed since August 2012.
c. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The closest identified wells are locaterd approximately 2,800 feet from the site (CRA, *Site Conceptual Model and Work Plan*, March 30, 2011).
d. The dissolved concentration of benzene is less than 3,000 micrograms per liter (µg/L) and the dissolved concentration of MTBE is less than 1,000 µg/L. Benzene was last detected at a maximum concentration of 650 µg/L on January 30, 2014. Disolved phase MTBE has not been reported.

PETROLEUM VAPOR INTRUSION TO INDOOR AIR

The low-threat vapor intrusion criteria described below apply to sites where the release originated and impacted or potentially impacted adjacent parcels or (2) buildings for human occupancy are reasonably expected to be constructed iwhen: (1) existing buildings are occupied or may be reasonably expected to be occupied in the future, on the future.

Petroleum release sites will satisfy the media-specific screening criteria for petroleum vapor intrusion if:

a. Site-specific conditions at the release site satisfy all of the characteristics and criteria of scenarios 1 through 3 as applicable, or all of the characteristics and criteria of scenario 4 as applicable; or,
b. A site-specific risk assessment for vapor intrusion is conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency; or,
c. The regulatory agency determines there is no significant risk of adversely affecting human health through the use of institutional or engineering controls.

Petroleum release sites shall satisfy the media-specific criteria for petroleum vapor intrusion to indoor air and be considered low-threat for the vapor intrusion to indoor air pathway if any of the above criteria are met.

Satisfied: A site-specific risk assessment for vapor intrusion was conducted and demonstrated that human health is not at risk (CRA, *Soil Vapor Investigation*, June 5, 2013). Additionally, the site satisfies the characteristics of Scenario 4B of criteria (a).

- Soil vapor sampling data is included in Table 1. Please see the table below comparing LTC criteria for direct soil gas with a bioattenuation zone.

Soil Gas Criteria (µg/m^3)			
	*With Bioattenuation Zone**		
Constituent	***Residential***	***Commercial***	***Highest Detected Concentration***
Benzene	<85,000	<280,000	13
Ethylbenzene	<1,100,000	<3,600,000	<720
Naphthalene	<93,000	<310,000	<3,400
µg/m^3 = Micrograms per cubic meter			

*Bioattentuation zone = total TPH <100 mg/kg in upper 5' of soil, and ≥4 percent oxygen in soil at 5 ft sample depth; a 1,000-fold bioattenuation of petroleum vapors is assumed for the zone.

DIRECT CONTACT AND OUTDOOR AIR EXPOSURE

The policy describes conditions where direct contact with contaminated soil or inhalation of contaminants volatized to outdoor air poses an insignificant threat to human health. Release sites where human exposure may occur satisfy media-specific criteria for direct contact and outdoor air exposure and shall be considered low-threat if they meet any one of the following:

a. Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the table below for the specified depth below ground surface. The limits from 0 to 5 feet below grade (fbg) protect from ingestion, dermal contact, and outdoor inhalation of volatile and particulate emissions. The 5 to 10 fbg limits protect from inhalation of volatile emissions only; the ingestion and dermal contact pathways are not considered significant. In addition, if exposure to construction workers or utility trench workers is reasonably anticipated, the concentration limits for Utility Worker shall also be satisfied.

	Policy Criteria					***Site Data***	
	Residential		***Commercial/Industrial***		***Utility Worker***	***Maximum Site Concentration***	
Constituent	***0–5 fbg (mg/kg)***	***Volatilization to outdoor air 5–10 fbg (mg/kg)***	***0–5 fbg (mg/kg)***	***Volatilization to outdoor air 5–10 fbg (mg/kg)***	***0–10 fbg (mg/kg)***	***0–5 fbg (mg/kg)***	***5–10 fbg (mg/kg)***
Benzene	1.9	2.8	8.2	12	14	<0.025	4.5
Ethylbenzene	21	32	89	134	314	4.6	55
Naphthalene	9.7	9.7	45	45	219	<0.001	<0.001
PAH*	0.063	NA	0.68	NA	4.5	NA	NA

* Based on the seven carcinogenic polycyclic aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe]. The PAH screening level is only applicable where soil is affected by either waste oil and/or Bunker C fuel.
NA = not applicable

b. Maximum concentrations of petroleum constituents in soil are less than levels that a site-specific risk assessment demonstrates will have no significant risk of adversely affecting human health.

c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, the regulatory agency determines that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health.

Satisfied: The site meets criteria (a) above as a commercial/industrial site. The site is currently zoned as commercial/industrial and will remain this way into the forseeable future. There are no records of a a waste-oil UST at the site; therefore, PAHs have not been analyzed at the site. Cumlative soil sample data is presented in Table 2.

CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this and previous reports, site conditions meet the general and media-specific criteria of a low-threat UST release case established in the policy, and therefore pose a

low threat to human health, safety, and the environment. A completed SWRCB low-threat checklist is included as Attachment D. The site satisfies the case closure requirements of Health and Safety Code section 25296.10, and case closure is consistent with Resolution 92-49 that requires cleanup goals be met within a reasonable time frame. Therefore, on behalf of Chevron, CRA respectfully requests ACEH grant case closure.

As the dissolved hydrocarbons remaining in groundwater pose no significant threat to human health, safety, and the environment, effective immediately, Chevron shall cease groundwater monitoring and sampling activities pending a response and further direction from ACEH.

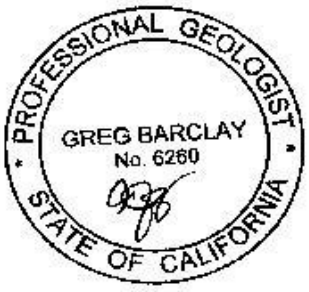
CONESTOGA-ROVERS & ASSOCIATES

July 28, 2014 Reference No. 060058

We appreciate your assistance on this project and look forward to your reply. Please contact Brian Silva at (916) 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Brian Silva

Greg Barclay, PG 6260

BRS/de/27
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Table 1	Soil Vapor Analytical Data
Table 2	Cummlitive Soil Analytical Data
Attachment A	Summary of Previous Environmental Investigation and Remediation
Attachment B	Groundwater Analytical Data
Attachment C	Historic Groundwater Analytical Data
Attachment D	SWRCB Low-Threat Case Closure Checklist

cc: Ms. Carryl MacLeod, Chevron *(electronic copy)*
Mr. Keiran Buckley
Mr. Ken Hilliard
Mr. Kirk F. Sniff, Esq, Strasburger & Price, LLP

FIGURES

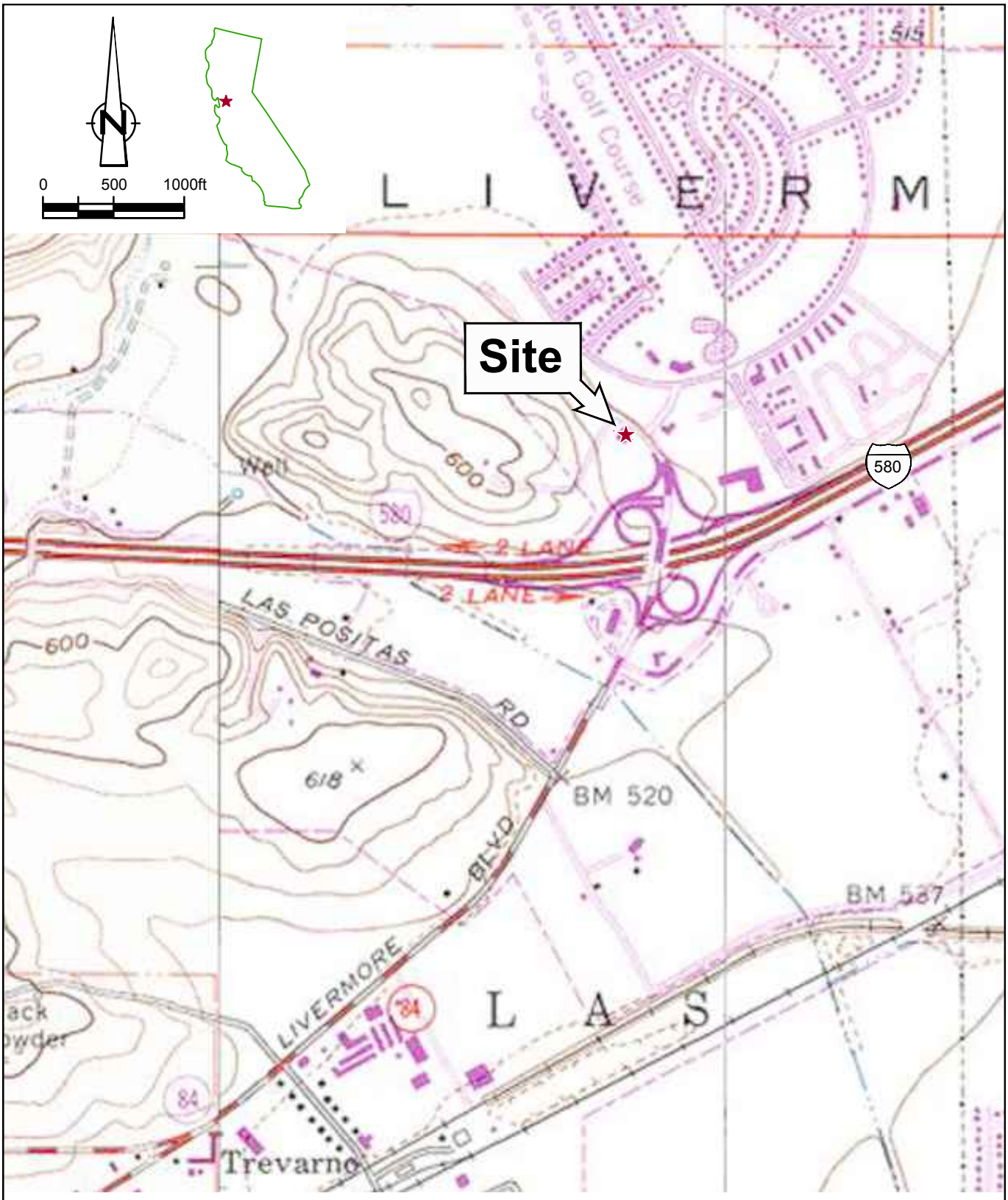


Figure 1

VICINITY MAP
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California

SOURCE: TOPO! 2003

60058-2014.2(027)GN-WA001 MAR 18/2014

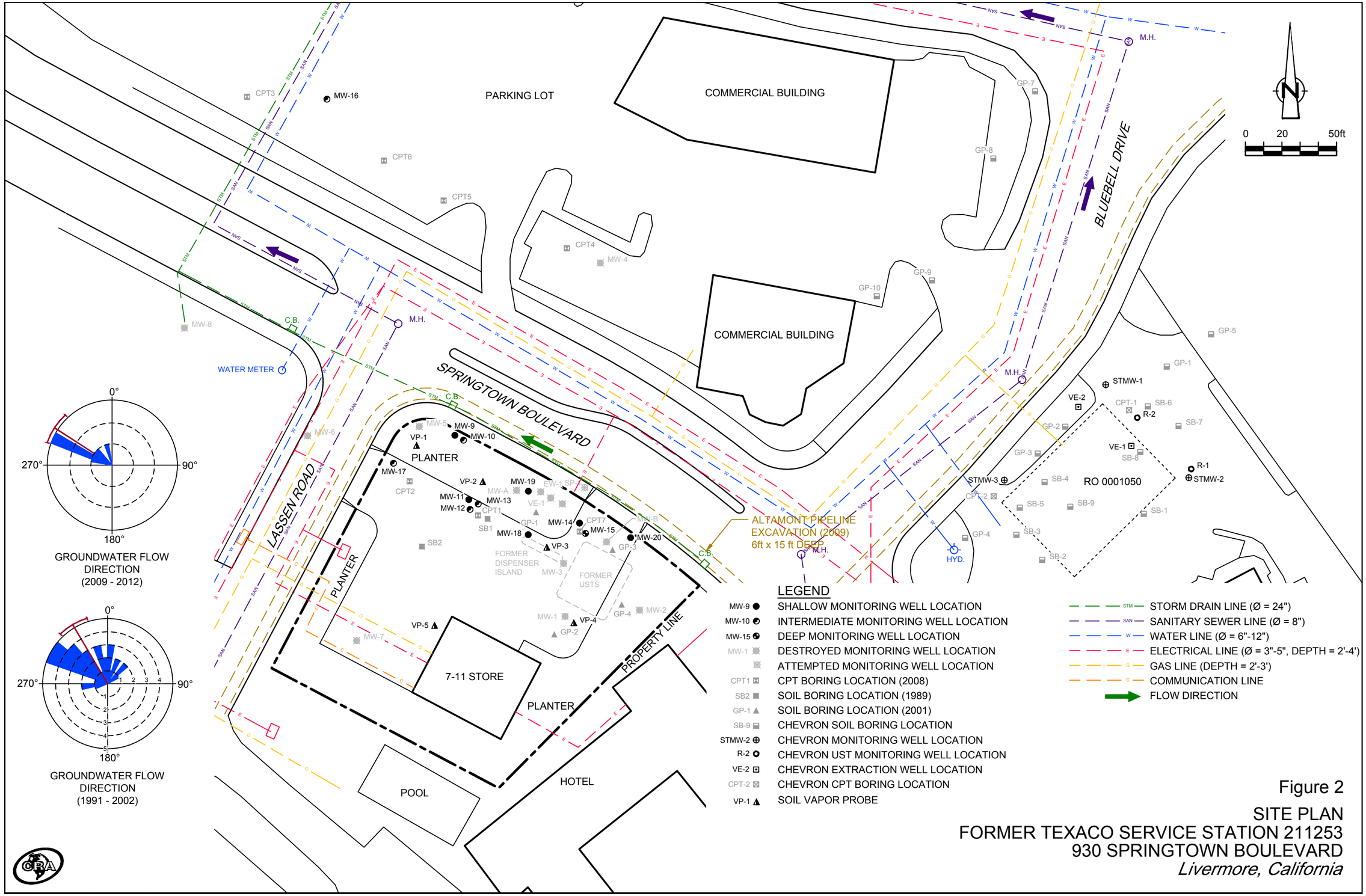


Figure 2

SITE PLAN
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
Livermore, California

TABLES

TABLE 1
SOIL VAPOR SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

			HYDROCARBONS							PRIMARY VOCS							GENERAL CHEMISTRY				
Location	Depth	Date	Total Petroleum Hydrocarbons - Gasoline	Total Petroleum Hydrocarbons (C5-C6) Aliphatics	Total Petroleum Hydrocarbons (>C6-C8) Aliphatic	Total Petroleum Hydrocarbons (>C8-C10) Aliphatic	Total Petroleum Hydrocarbons (>C8-C10) Aromatic	Total Petroleum Hydrocarbons (>C10-C12) Aliphatic	Total Petroleum Hydrocarbons (>C10-C12) Aromatic	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene	Methyl tert butyl ether (MTBE)	Naphthalene	Methane	Nitrogen	Carbon dioxide	Oxygen	Helium
	ft	Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	%	%	%	%	%
ESLs (Residential)			150,000	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	42	160,000	490	52,000	52,000	4,700	36	*NE*	*NE*	*NE*	*NE*	*NE*
ESLs (com/Ind)			1,200,000	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	420	1,300,000	4,900	440,000	440,000	47,000	360	*NE*	*NE*	*NE*	*NE*	*NE*
VP-1	**5**	**03/13/2013**	440	<53	<67	<95	<80	<110	<89	3	<3.1	<3.5	<3.5	<3.5	<2.9	<17	<0.00016	81	3.3	15	<0.082
VP-1	**10**	**03/13/2013**	460	<55	<70	<99	<84	<120	<93	4.5	5	<3.7	8.1	4.7	<3.1	<18	<0.00017	78	1.7	20	<0.085
VP-2	**5**	**03/13/2013**	2,300	<56	500	<100	<85	<120	<95	6.3	<3.2	<3.8	6.6	4.4	<3.1	<18	<0.00017	82	1.7	16	<0.086
VP-2-5 (DUP)	**5**	**03/13/2013**	1,700	<55	350	<100	<84	<120	<94	6.3	<3.2	<3.7	6.5	4.2	<3.1	<18	<0.00017	82	1.7	16	<0.086
VP-2	**10**	**03/13/2013**	17,000	600	4,700	340	<170	<240	<190	13	<6.4	<7.4	9.9	<7.4	<6.2	<36	0.0012	90	5.7	4.6	<0.086
VP-3	**5**	**03/13/2013**	12,000	390	2,400	180	<150	<210	<170	<4.9	<5.8	<6.6	<6.6	<6.6	<5.5	<32	0.0025	93	1.9	4.7	<0.076
VP-3	**10**	**03/13/2013**	**2,600,000**	140,000	840,000	36,000	<16,000	<23,000	<18,000	**<530**	<620	<720	<720	<720	<590	**<3,400**	0.57	98	0.39	1.5	<0.082
VP-4	**5**	**03/12/2013**	560	<46	<58	<82	<69	<98	<77	<2.2	7	<3.1	6.8	<3.1	<2.5	<15	<0.00014	80	6.5	13	0.19
VP-4	**10**	**03/12/2013**	<160	<50	<64	<90	<76	<110	<85	<2.5	6.9	<3.4	3.9	<3.4	<2.8	<16	<0.00016	80	8.9	11	<0.078
VP-5	**4.5**	**03/12/2013**	540	<54	<69	<98	<82	<120	<92	3.4	14	<3.6	11	<3.6	<3.0	<18	<0.00017	84	3.1	13	<0.084
VP-5	**9**	**03/12/2013**	<160	<51	<65	<92	<78	<110	<87	<2.5	4.5	<3.4	<3.4	<3.4	<2.8	<16	<0.00016	83	3.8	13	<0.079

TABLE 1
SOIL VAPOR SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

			HYDROCARBONS							*PRIMARY VOCS*							*GENERAL CHEMISTRY*				
Location	Depth	Date	*Total Petroleum Hydrocarbons - Gasoline*	*Total Petroleum Hydrocarbons (C5-C6) Aliphatics*	*Total Petroleum Hydrocarbons (>C6-C8) Aliphatic*	*Total Petroleum Hydrocarbons (>C8-C10) Aliphatic*	*Total Petroleum Hydrocarbons (>C8-C10) Aromatic*	*Total Petroleum Hydrocarbons (>C10-C12) Aliphatic*	*Total Petroleum Hydrocarbons (>C10-C12) Aromatic*	*Benzene*	*Toluene*	*Ethylbenzene*	*m&p-Xylenes*	*o-Xylene*	*Methyl tert butyl ether (MTBE)*	*Naphthalene*	*Methane*	*Nitrogen*	*Carbon dioxide*	*Oxygen*	*Helium*
	ft	Units	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*ug/m3*	*%*	*%*	*%*	*%*	*%*
ESLs (Residential)			150,000	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	42	160,000	490	52,000	52,000	4,700	36	*NE*	*NE*	*NE*	*NE*	*NE*
ESLs (com/Ind)			1,200,000	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*	420	1,300,000	4,900	440,000	440,000	47,000	360	*NE*	*NE*	*NE*	*NE*	*NE*

Abbreviations and Notes:

ft = Feet

ug/m3 = Micrograms per cubic meter

% = Percentage

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

DUP = Indicates duplicate sample

ESLs are taken from Table E - Environmental screening levels for residential and comercial/industrial land use in shallow soil gas, referenced in Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final-November 2007 (Revised May 2013).
Data in bold represent concentrations that exceed applicable ESLs (residential)

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
2013 Vapor Probe Installation																
VP-1-S-5	02/26/13	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-1-S-10	02/26/13	10	--	<1.0	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	<0.0009	--	--	--	--	--	--
VP-2-S-5	02/26/13	5	--	<10	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-2-S-10	02/26/13	10	--	<4.1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-3-S-5	02/26/13	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-3-S-10	02/26/13	10	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-4-S-5	02/27/13	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-4-S-10	02/27/13	10	--	<1.0	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	<0.0009	--	--	--	--	--	--
VP-5-S-5	02/27/13	5	--	<9.9	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
VP-5-S-9	02/27/13	9	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	--	--	--	--	--	--
2012 Well Installation																
MW-17	01/16/12	5	--	<1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	10.5	--	<11	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	15.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	20.5	--	<1.1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	25.5	--	<1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	30.5	--	<0.9	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-17	01/19/12	36.5	--	<9.9	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-18	01/16/12	5	--	310	<0.025	<0.051	4.6	6.6	--	--	--	--	--	--	--	--
MW-18	01/18/12	11	--	170	0.44	7.1	1.9	8.3	--	--	--	--	--	--	--	--

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
MW-18	01/18/12	15	--	540	0.38	19	12	51	--	--	--	--	--	--	--	--
MW-18	01/18/12	20	--	13	0.005	0.15	0.091	0.33	--	--	--	--	--	--	--	--
MW-18	01/18/12	25	--	1,200	0.36	9.9	13	52	--	--	--	--	--	--	--	--
MW-18	01/18/12	31	--	<0.9	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-19	01/17/12	5	--	<1.1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-19	01/18/12	10	--	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-19	01/18/12	15	--	1.4	<0.0005	<0.001	0.002	<0.001	--	--	--	--	--	--	--	--
MW-19	01/18/12	20	--	2.5	<0.0005	<0.0009	0.015	0.001	--	--	--	--	--	--	--	--
MW-19	01/18/12	25	--	30	<0.023	<0.046	0.067	<0.046	--	--	--	--	--	--	--	--
MW-19	01/18/12	30	--	3.7	0.012	<0.001	0.009	0.002	--	--	--	--	--	--	--	--
MW-20	01/16/12	5	--	<0.9	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-20	01/17/12	10	--	<1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-20	01/17/12	15	--	50	<0.026	<0.052	<0.052	<0.052	--	--	--	--	--	--	--	--
MW-20	01/17/12	19.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-20	01/17/12	25	--	1.2	<0.0005	0.007	0.041	0.13	--	--	--	--	--	--	--	--
MW-20	01/17/12	30	--	<1	<0.0005	<0.001	0.007	0.020	--	--	--	--	--	--	--	--
MW-20	01/17/12	35	--	<0.9	<0.0005	<0.001	0.004	0.014	--	--	--	--	--	--	--	--
MW-20	01/17/12	40	--	<0.9	<0.0005	0.003	0.012	0.038	--	--	--	--	--	--	--	--
MW-20	01/17/12	45	--	<1	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--

2009 CRA Well Installation

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
MW-10	06/24/09	10.5	--	48	<0.025	<0.051	0.094	<0.051	--	--	--	--	--	--	--	--
MW-10	06/24/09	15.5	--	1.7	0.001	0.006	0.16	0.12	--	--	--	--	--	--	--	--
MW-10	06/24/09	20.5	--	1.8	<0.0005	<0.001	0.005	0.001	--	--	--	--	--	--	--	--
MW-10	06/24/09	26	--	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-13	06/24/09	10.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--
MW-13	06/25/09	15.5	--	8.7	<0.0005	<0.0009	<0.0009	<0.0009	--	--	--	--	--	--	--	--
MW-13	06/25/09	20.5	--	11	0.18	0.005	0.017	0.008	--	--	--	--	--	--	--	--
MW-13	06/25/09	25.5	--	1100	1.2	50	13	90	--	--	--	--	--	--	--	--
MW-13	06/25/09	31	--	150	0.22	8.1	3.5	22	--	--	--	--	--	--	--	--
MW-13	06/25/09	36.5	--	52	0.046	0.85	0.30	1.8	--	--	--	--	--	--	--	--
MW-15	06/30/09	9.5	--	5200	4.5	44	**55**	260	--	--	--	--	--	--	--	--
MW-15	06/30/09	14.5	--	150	0.003	0.014	0.065	0.24	--	--	--	--	--	--	--	--
MW-15	06/30/09	19.5	--	6400	**<0.50**	31	170	530	--	--	--	--	--	--	--	--
MW-15	06/30/09	24.5	--	34	<0.025	0.12	0.23	0.94	--	--	--	--	--	--	--	--
MW-15	06/30/09	29.5	--	4.9	<0.0005	0.028	0.037	0.20	--	--	--	--	--	--	--	--
MW-15	06/30/09	34.5	--	86	<0.023	0.34	0.65	**3.0**	--	--	--	--	--	--	--	--
2007 - 2008 CRA Subsurface Investigation																
CPT1	11/21/07	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT1	11/21/07	16	--	1.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT1	11/21/07	20	--	<1.0	0.073	0.002	0.001	<0.001	<0.0005	--	<0.019	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
CPT1	11/21/07	30	--	59	0.61	2.8	0.42	5.8	<0.024	--	<0.97	<0.048	<0.048	<0.048	<0.048	<0.048
CPT1	11/21/07	37	--	16	0.004	0.056	0.039	0.30	<0.005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT1	11/21/07	41	--	130	0.043	1.1	0.52	3.4	<0.024	--	<0.97	<0.049	<0.049	<0.049	<0.049	<0.049
CPT1	11/21/07	45	--	1.8	0.004	0.059	0.018	0.13	<0.0005	--	<0.019	<0.001	<0.001	<0.001	<0.001	<0.001
CPT1	11/21/07	50	--	<1.0	0.0008	0.022	0.009	0.060	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	10.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	15.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	20.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	30.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	35.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	40.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	45.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT2	11/19/07	50.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT3	04/07/08	19.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT4	07/18/08	23.5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.019	<0.001	<0.001	<0.001	<0.001	<0.001
CPT5	04/09/08	21.5	--	<1.0	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	--	<0.019	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
CPT6	11/19/07	5	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	--	<0.021	<0.001	<0.001	<0.001	<0.001	<0.001
CPT6	11/20/07	25	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005		<0.019	<0.001	<0.001	<0.001	<0.001	<0.001
CPT7	04/08/08	5	--	510	<0.026	<0.053	3.6	16	<0.026	--	<1.1	<0.053	<0.053	<0.053	<0.053	<0.053
CPT7	04/09/08	10.5	--	1700	2.5	20	14	70	<0.025	--	<0.99	<0.050	<0.050	<0.050	<0.050	<0.050
CPT7	04/09/08	12	--	510	0.28	<0.050	2.8	1.4	<0.025	--	<1.0	<0.050	<0.050	<0.050	<0.050	<0.050
CPT7	04/09/08	17	--	700	0.45	5.7	6.0	27	<0.023	--	<0.92	<0.046	<0.046	<0.046	<0.046	<0.046
CPT7	04/09/08	20	--	430	0.15	6.6	4.2	19	<0.024	--	<0.97	<0.049	<0.049	<0.049	<0.049	<0.049
CPT7	04/09/08	25	--	53	0.039	1.6	2.4	11	<0.026	--	<1.0	<0.052	<0.052	<0.052	<0.052	<0.052
CPT7	04/09/08	30	--	82	0.048	0.60	0.50	2.2	<0.025	--	<0.98	<0.049	<0.049	<0.049	<0.049	<0.049
CPT7	04/09/08	35	--	16	<0.026	0.16	0.13	0.61	<0.026	--	<1.1	<0.053	<0.053	<0.053	<0.053	<0.053
CPT7	04/09/08	40	--	2.1	0.0007	0.031	0.049	0.24	<0.0005	--	<0.019	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
CPT7	04/09/08	42	--	3.7	0.005	0.037	0.046	0.20	<0.0005	--	<0.020	<0.001	<0.001	<0.001	<0.001	<0.001
CPT7	04/09/08	50.5	--	38	0.026	0.46	0.72	**3.3**	<0.026	--	<1.0	<0.051	<0.051	<0.051	<0.051	<0.051
CPT7	04/09/08	55	--	32	<0.026	0.52	0.83	**3.9**	<0.026	--	<1.0	<0.052	<0.052	<0.052	<0.052	<0.052
2001 KHM Vadose Zone Investigation																
GP-1	06/21/01	3.5	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-1	06/21/01	6.0	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-1	06/21/01	11.0	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-1	06/21/01	14.5	--	11**	<0.005	<0.005	<0.005	<0.010	<0.005	--	--	--	--	--	--	--
GP-3	06/21/01	3.5	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
GP-3	06/21/01	7.0	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-3	06/21/01	10.5	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-4	06/21/01	3.5	--	<1.0**	<0.005	<0.005	<0.005	0.0097	<0.005	--	--	--	--	--	--	--
GP-4	06/21/01	6.0	--	<1.0**	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
GP-4	06/21/01	14.0	--	27**	<0.005	<0.005	<0.005	<0.010	<0.005	--	--	--	--	--	--	--
1992 Weiss Extraction Well Installation																
B-1 (EW-1)	10/19/92	9.7	--	<1.0	<0.005*	<0.005*	<0.005*	<0.005*	--	--	--	--	--	--	--	--
B-1 (EW-1)	10/19/92	14.5	--	1200	6.6*	21*	15*	50*	--	--	--	--	--	--	--	--
B-1 (EW-1)	10/19/92	24.7	--	3	0.017*	0.051*	0.050*	0.21*	--	--	--	--	--	--	--	--
B-1 (EW-1)	10/19/92	29.5	--	<1.0	<0.005*	<0.005*	<0.005*	<0.005*	--	--	--	--	--	--	--	--
B-2 (VE-1/SP-1)	10/20/92	14.5	--	1000	7.1*	22*	13*	56*	--	--	--	--	--	--	--	--
B-2 (VE-1/SP-1)	10/20/92	16.7	--	990	2.9*	15*	14*	53*	--	--	--	--	--	--	--	--
B-2 (VE-1/SP-1)	10/20/92	18.5	--	<1.0	0.007*	0.029*	<0.005*	<0.005*	--	--	--	--	--	--	--	--
1984-1989																
B3-15 (MW-A)	09/27/84	15	--	--	27	86	190	310	--	--	--	--	--	--	--	--
B4-15 (MW-B)	09/27/84	15	--	--	0.15	0.83	0.97	3.1	--	--	--	--	--	--	--	--
Bottom	06/26/85	--	3.2*	--	0.58*	0.24*	0.40*	0.009*	--	--	--	--	--	--	--	--

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
North	06/26/85	--	1.4*	--	<0.001*	<0.001*	<0.001*	<0.001*	--	--	--	--	--	--	--	--
South	06/26/85	--	<0.01*	--	<0.001*	<0.001*	<0.001*	<0.001*	--	--	--	--	--	--	--	--
East	06/26/85	--	1.3*	--	0.02*	0.02*	0.01*	0.01*	--	--	--	--	--	--	--	--
West	06/26/85	--	<0.01*	--	<0.001	<0.001*	<0.001*	<0.001*	--	--	--	--	--	--	--	--
MW-5C	11/11/86	14	--	2.1	0.030	0.025	--	0.070	--	--	--	--	--	--	--	--
MW-6B	11/11/86	10.5	--	<0.050	0.002	0.005	--	0.003	--	--	--	--	--	--	--	--
SB-1D	12/04/89	12.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
SB-1E	12/04/89	16	--	1500	4	<3	19	24	--	--	--	--	--	--	--	--
SB-1F	12/04/89	21	--	5	<1	<3	<4	<15	--	--	--	--	--	--	--	--
SB-1G	12/04/89	27	--	31	<1	<3	<4	<15	--	--	--	--	--	--	--	--
SB-1H	12/04/89	32	--	310	1	5	<4	15	--	--	--	--	--	--	--	--
SB-2A	12/05/89	9.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
SB-2C	12/05/89	14.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
SB-2D	12/05/89	19.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
MW7C	12/05/89	10.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
MW7D	12/05/89	14.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--
MW7F	12/05/89	19.5	--	<1	<1	<3	<4	<15	--	--	--	--	--	--	--	--

TABLE 2

SOIL ANALYTICAL DATA
FORMER TEXACO STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPH*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*Naphthalene*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
	ESL		*Reported in milligrams per kilogram (mg/kg)*													
Low-Threat Policy - Direct Contact and Outdoor Air Exposure																
0 to 5 fbg, Residential			*NE*	*NE*	1.9	*NE*	21	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, Residential, Outdoor Air			*NE*	*NE*	2.8	*NE*	32	*NE*	*NE*	***9.7***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 5 fbg, C/I			*NE*	*NE*	8.2	*NE*	89	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
5 to 10 fbg, C/I, Outdoor Air			*NE*	*NE*	12	*NE*	134	*NE*	*NE*	***45***	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
0 to 10 fbg, Utility Worker			*NE*	*NE*	14	*NE*	314	*NE*	*NE*	219	*NE*	*NE*	*NE*	*NE*	*NE*	*NE*
MW8C	12/05/89	10	--	<1	<1	**<3**	<4	<15	--	--	--	--	--	--	--	--
MW8D	12/05/89	17.5	--	<1	<1	**<3**	<4	<15	--	--	--	--	--	--	--	--
MW8E	12/05/89	20.5	--	<1	<1	**<3**	<4	<15	--	--	--	--	--	--	--	--

Notes:

Total petroleum hydrocarbons as fuel (TPH) analyzed by EPA method 8020 unless otherwise noted

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA method 8015B modified unless otherwise noted

ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB) by EPA method 8260B unless otherwise noted

Low-Threat Policy = State Water Resources Control Board (SWRCB) Low-Threat Underground Storage Tank Closure Policy, adopted on August 17, 2012.

Data in **bold** represent concentrations that exceed one or more of the Low Threat Policy

fbg = feet below grade

ND = Not detected above various laboratory method detection limits

* = Analyzed by EPA method 8020

**=TPHg analyzed by EPA method 8260B

<x = Not detected at reporting limit x

-- = Not analyzed/not applicable

ATTACHMENT A

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION
FORMER TEXACO 211253
930 SPRINGTOWN BOULEVARD, LIVERMORE, CALIFORNIA

1984 Initial Investigation

In September 1984, J.H. Kleinfelder and Associates (Kleinfelder) discovered approximately 1-inch of light non-aqueous phase liquid (LNAPL) adjacent to the underground storage tanks (USTs) during an initial investigation. It appears that Kleinfelder installed monitoring wells MW-A and MW-B in September 1984. No additional information regarding this investigation was located by CRA.

1985 Hydrocarbon Investigation and UST/Product Line Removal

In May through July 1985, Groundwater Technology Incorporated (GTI) installed monitoring wells MW-1 through MW-3 around the UST pit to assess the extent of hydrocarbons detected by Kleinfelder. On June 26, 1985, GTI collected soil samples beneath the USTs and product lines during the decommissioning of the Texaco station, including UST and product line removal. GTI conducted a ½-mile radius well survey through the Alameda Flood Control and Water Conservation District. Eight wells were identified north, east, and south of the site. Additional information is available in GTI's August 1985 *Hydrocarbon Investigation Report*.

1985 Monitoring Well Installation

In September 1985, GTI installed well MW-4. Additional information is available in GTI's September 17, 1985 Untitled Report.

1986 Monitoring Well Installation

In November 1986, GTI installed wells MW-5 and MW-6. Additional information is available in GTI's March 23, 1987 *Status Report*.

1989 Additional Site Assessment

In December 1989, GTI advanced soil borings SB-1 and SB-2 and installed monitoring wells MW-7 and MW-8. More information is available in GTI's April 10, 1990 *Report of Additional Environmental Site Assessment.*

1991 Soil Vapor Extraction (SVE) Pilot Test

In July 1991, GTI conducted a SVE pilot test. The radius of vacuum influence was calculated as less than 30 feet. At a flow rate of 100 cubic feet per minute, the hydrocarbon removal rate from MW-5 was calculated to be 135 pounds/day. More information is available in GTI's September 12, 1991 *Work Plan for Soil and Groundwater Remediation*.

1993 Extraction Well Installation and Feasibility Testing

In October 1992, Weiss Associates (WA) installed groundwater extraction well EW-1, vapor extraction well VE-1, and air sparge well SP-1. In November 1992, WA conducted a 24-hour aquifer test using EW-1. Groundwater was extracted at an average flow rate of 7.85 gallons per minute (gpm). The average aquifer transmissivity was estimated to be 3,400 gallons per day per foot. Although most of the monitoring wells are screened over a length of 20 feet, boring logs indicate that the more permeable, sandy gravel zone is 15 feet thick. Using this thickness, an average hydraulic conductivity value of 225 gpd/ft^2 (0.021 ft/min), and a specific storage of 0.001 ft^{-1} were estimated for this aquifer. WA also conducted a vapor extraction test on vapor extraction well VE-1, groundwater extraction well EW-1, and existing monitoring wells MW-A, MW-B and MW-5. The hydrocarbon mass removal rate ranged between 0.3 and 127 pounds/day total petroleum hydrocarbons as gasoline. WA conducted an air sparging test from the air sparge well SP-1 and vapor extraction well VE-1, and concluded that air sparging with vapor extraction would effectively remove hydrocarbons from saturated sediments. Additional information is available in WA's January 5, 1993 report *Extraction Well Installation and Feasibility Testing.*

1994 Remediation System Start-Up

In November 1994, GTI initiated operation of a 100 cfm King Buck/Hasstech MMC-5a catalytic oxidizer SVE\Air Sparge system. The system was connected to wells MW-A, MW-B, MW-3, MW-5, VE-1, and SP-1. The system operated intermittently through August 1995, when it was shutdown due low hydrocarbon removal rates. Additional information including system diagrams, startup testing, sampling activities and laboratory analytical data are available in GTI's March 10, 1995 *Remediation System Start-up/Air Monitoring and Sampling Report*.

1996 Well Destruction Report

In February 1996, Kaprealian Engineering Incorporated (KEI) destroyed wells MW-6 and MW-7. Additional information is available in KEI's January 22, 1996 *Report of Destruction of Monitoring Wells.*

1997 Tier 2 Risk Based Corrective Action Analysis

In December 1997, KEI submitted a summary of the input parameters to be used for a subsequent Tier 2 Risk-Based Corrective Action (RBCA) analysis, including subsurface soil and groundwater sample analytical data. KEI modeled BTEX concentrations and concluded no onsite Site-Specific Target Levels were exceeded for any of the pathways modeled. Additional information available in KEI's October 31, 1997 *Risk-Based Corrective Action Analysis*.

2001 RBCA Vadose Zone Investigation and RBCA Analysis

In August 2001, KHM Environmental Management (KHM) submitted an addendum to the previous RBCA in response to an ACEH email requesting an evaluation of risk to a "Residential Setting" and risk associated with potential vapor intrusion to the onsite building. In June 2001, KHM advanced geoprobe borings GP-1 through GP-4. Borings GP-1 and GP-3 were advanced adjacent to groundwater monitoring wells with the highest hydrocarbon concentrations (MW-A and MW-B), GP-2 was advanced outside of the UST complex area, and GP-4 was advanced on the east side of the former UST complex. Borings GP-1, GP-3, and GP-4 were first advanced to 3 fbg for collection of a vadose zone soil gas samples, then advanced to first encountered groundwater at approximately 15 fbg. KHM concluded the only potential pathway of exposure for a residential setting was vapor intrusion; however, because no benzene was detected in vadose zone soil gas, there was no risk to human health or the environment. Additional information is available in KHM's August 13, 2001 *Vadose Zone Investigation and Risk-Based Correction Action (RBCA) Analysis.*

2001 Closure Request

In December 2001, KHM submitted a case closure request under the direction of ACEH. KHM concluded all hydrocarbon sources had been removed, the SVE system adequately removed hydrocarbons from the vadose zone, the dissolved hydrocarbons were defined and limited in extent, and no sensitive receptors were at risk. Additional information is available in KHM's December 10, 2001 letter requesting closure.

2002 Case Closure

ACEH's March 2002 letter stated the Regional Water Quality Control Board (RWQCB) concurred with ACEH's recommendation for case closure, and all wells must be destroyed prior to issuing a "Remedial Action Completion" letter.

2002 Well Destruction

In December 2002, KHM destroyed onsite and offsite wells MW-1 through MW-5, MW-A, MW-B, EW-1, VE-1, and SP-1 by pressure grouting. Additional information is available in KHM's January 7, 2003 *Well Destructions – MW-1 through MW-5, MW-8, MW-A, MW-B, EW-1, VE-1 and SP-1.*

2007/2008 Subsurface Investigation

By January 2007, no "Remedial Action Completion" letter had been issued by ACEH or the RWQCB. In a letter dated January 31, 2007, ACEH requested horizontal and vertical delineation of the hydrocarbon plume, preferential pathway evaluation, and well decommissioning documentation. In 2007 and 2008, to address the ACEH's technical comments and re-evaluate the site for closure, Conestoga-Rovers & Associates (CRA) advanced cone penetration testing (CPT) borings CPT1 through CPT7 both on and offsite. Additional information is available in CRA's August 13, 2008 *Subsurface Investigation Report.*

2009 Altamont Pipeline Excavation

In 2009, Zone 7 water agency installed the Altamont pipeline along the northern boundary of the site property. According to conversations with the water agency, an excavation approximately 6 feet wide by 15 feet deep was advanced removing approximately 240 cubic yards of soil. According to the water agency, no further details regarding this excavation are available.

2009 Monitoring Well Installation

In July 2009, CRA installed monitoring wells MW-9 through MW-16 to delineate dissolved hydrocarbon concentrations. The monitoring wells were installed at three different levels: shallow wells MW-9, MW-11, and MW-14, intermediate wells MW-10, MW-12, MW-13, and MW-16, and deep well MW-15. Additional information is available in CRA's August 19, 2009 *Monitoring Well Installation Report*.

2012 Monitoring Well Installation

In January 2012, CRA installed onsite monitoring wells MW-17, MW-18, MW-19, and MW-20. The offsite monitoring well, proposed in the sidewalk on the south side of Springtown Boulevard, could not be installed. During borehole clearance, pea gravel was encountered at 4.5 fbg which likely indicated the presence of an underground utility, and the well could not be safely installed. There was no alternative location due to the adjacent Altamont Pipeline and electrical utilities in the surrounding area. CRA also conducted a preferential pathway study and an onsite geophysical survey to search for a potential secondary onsite source. No UST that could be a secondary source was identified beneath the site during the geophysical survey. It does not appear any underground utilities are acting as preferential pathways for offsite hydrocarbon migration. Details are available in CRA's March 22, 2012 *Subsurface Investigation Report.*

2013 Soil Vapor Assessment and Human Health Risk Assessment

In February and March 2013, CRA installed and sampled soil vapor probes VP-1 through VP-5. The probes were dual nested set at depths of 5 and 10 fbg. Only soil vapor from the 10-foot probe at VP-3 contained chemicals of potential concern (COPCs) that exceeded the commercial risk-based screening levels. Soil vapor collected from the 5-foot probe at VP-3 did not exceed the commercial risk based screening levels nor the most conservative residential risk-based screening levels. COPCs in the remaining probes did not exceed the commercial risk-based screening levels nor the most conservative residential screening levels. Soil samples collected from the vapor probe installations were below the reporting limit for TPHg, BTEX, MTBE, and naphthalene. Based on the results of the soil vapor investigation and findings of the HHRA, direct contact exposure to soil and indoor air inhalation exposure to soil vapor are not expected to result in unacceptable risks or hazards to the current/future commercial/industrial receptor at the site.

ATTACHMENT B

GROUNDWATER ANALYTICAL DATA

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9 [2]	08/24/2010	523.14	13.58	509.56	-	-	3,500	6	8	180	79	-	-	-	-
MW-9 [2]	01/31/2011	523.14	12.31	510.83	-	-	68	<0.5	<0.5	3	<0.5	-	-	-	-
MW-9 [2]	08/09/2011	523.14	12.01	511.13	-	-	54	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-9 [2]	02/09/2012	523.14	13.05	510.09	-	-	5,300	6	7	250	120	-	-	-	-
MW-9 [2, 5]	05/10/2012	523.14	12.52	510.62	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	08/22/2012	523.14	13.45	509.69	-	-	1,300	<5	<5	8	7	2,900	9,200	<250	24,000
MW-9 [2, 5]	11/29/2012	523.14	13.30	509.84	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	02/14/2013	523.14	12.70	510.44	-	-	5,200	<5	<5	37	60	-	-	-	-
MW-9 [2, 5]	05/20/2013	523.14	13.11	510.03	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5]	07/30/2013	523.14	13.55	509.59	-	-	5,600	6	4	31	77	-	-	-	-
MW-9 [2, 5]	11/06/2013	523.14	13.57	509.57	-	-	-	-	-	-	-	-	-	-	-
MW-9 [2, 5, 6]	**01/30/2014**	**523.14**	**13.65**	**509.49**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-10 [3]	08/24/2010	523.25	13.07	510.18	-	-	1,300	<0.5	<0.5	2	<0.5	-	-	-	-
MW-10 [3]	01/31/2011	523.25	11.92	511.33	-	-	250	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	08/09/2011	523.25	11.85	511.40	-	-	300	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3]	02/09/2012	523.25	12.62	510.63	-	-	140	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	05/10/2012	523.25	12.26	510.99	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	08/22/2012	523.25	13.03	510.22	-	-	600	2	0.7	2	2	670	580	<250	24,400
MW-10 [3, 5]	11/29/2012	523.25	12.89	510.36	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	02/14/2013	523.25	12.31	510.94	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	05/20/2013	523.25	12.70	510.55	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	07/30/2013	523.25	13.15	510.10	-	-	170	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-10 [3, 5]	11/06/2013	523.25	13.18	510.07	-	-	-	-	-	-	-	-	-	-	-
MW-10 [3, 5]	**01/30/2014**	**523.25**	**13.34**	**509.91**	**-**	**-**	**57**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-11 [2]	08/24/2010	523.42	13.80	509.62	-	-	2,000 J	6	2	9	5	-	-	-	-
MW-11 [2]	01/31/2011	523.42	12.35	511.07	-	-	790	1	<0.5	5	3	-	-	-	-
MW-11 [2]	08/09/2011	523.42	12.06	511.36	-	-	130	<0.5	<0.5	0.9	<0.5	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-11 [2]	02/09/2012	523.42	13.06	510.36	-	-	220	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	05/10/2012	523.42	12.58	510.84	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	08/22/2012	523.42	13.50	509.92	-	-	510	<0.5	<0.5	<0.5	<0.5	760	1,400	<250	59,500
MW-11 [2, 5]	11/29/2012	523.42	13.32	510.10	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	02/14/2013	523.42	12.72	510.70	-	-	110	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	05/20/2013	523.42	13.13	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5]	07/30/2013	523.42	13.60	509.82	-	-	320	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-11 [2, 5]	11/06/2013	523.42	13.64	509.78	-	-	-	-	-	-	-	-	-	-	-
MW-11 [2, 5, 6]	**01/30/2014**	**523.42**	**13.69**	**509.73**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-12 [3]	08/24/2010	523.12	12.84	510.28	-	-	18,000	210	650	330	1,900	-	-	-	-
MW-12 [3]	01/31/2011	523.12	12.47	510.65	-	-	9,600	64	180	180	400	-	-	-	-
MW-12 [3]	08/09/2011	523.12	12.19	510.93	-	-	9,000	71	140	170	580	-	-	-	-
MW-12 [3]	02/09/2012	523.12	13.11	510.01	-	-	8,700	85	130	170	590	-	-	-	-
MW-12 [3, 5]	05/10/2012	523.12	12.71	510.41	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	08/22/2012	523.12	13.44	509.68	-	-	8,500	<5	12	120	160	2,000	6,400	<250	3,200
MW-12 [3, 5]	11/29/2012	523.12	13.35	509.77	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	02/14/2013	523.12	12.82	510.30	-	-	7,700	20	83	160	500	-	-	-	-
MW-12 [3, 5]	05/20/2013	523.12	13.21	509.91	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	07/30/2013	523.12	13.62	509.50	-	-	9,000	52	190	160	610	-	-	-	-
MW-12 [3, 5]	11/06/2013	523.12	13.66	509.46	-	-	-	-	-	-	-	-	-	-	-
MW-12 [3, 5]	**01/30/2014**	**523.12**	**13.66**	**509.46**	**-**	**-**	**7,800**	**11**	**31**	**120**	**240**	**-**	**-**	**-**	**-**
MW-13 [3]	08/24/2010	520.88	13.69	507.19	-	-	13,000	810	710	76	660	-	-	-	-
MW-13 [3]	01/31/2011	520.88	12.21	508.67	-	-	22,000	1,600	1,600	270	1,600	-	-	-	-
MW-13 [3]	08/09/2011	520.88	11.91	508.97	-	-	12,000	1,200	820	120	710	-	-	-	-
MW-13 [3]	02/09/2012	520.88	12.83	508.05	-	-	18,000	1,600	3,700	370	2,200	-	-	-	-
MW-13 [3, 5]	05/10/2012	520.88	12.44	508.44	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3, 5]	08/22/2012	520.88	13.19	507.69	-	-	35,000	2,000	5,600	340	4,500	8,500	1,200	<250	2,600

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-13 [3,5]	11/29/2012	520.88	13.06	507.82	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	02/14/2013	520.88	12.53	508.35	-	-	11,000	380	750	31	1,700	-	-	-	-
MW-13 [3,5]	05/20/2013	520.88	12.94	507.94	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	07/30/2013	520.88	13.35	507.53	-	-	2,800	94	19	22	57	-	-	-	-
MW-13 [3,5]	11/06/2013	520.88	13.38	507.50	-	-	-	-	-	-	-	-	-	-	-
MW-13 [3,5]	**01/30/2014**	**520.88**	**13.43**	**507.45**	**-**	**-**	**14,000**	**650**	**1,500**	**110**	**1,900**	**-**	**-**	**-**	**-**
MW-14 [2]	08/24/2010 [1,**]	520.88	10.36	510.75	0.29	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	01/31/2011 [1,**]	520.88	9.96	511.12	0.25	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	08/09/2011 [1,**]	520.88	9.67	511.35	0.17	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2]	02/09/2012 [1,**]	520.88	10.69	510.46	0.34	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	05/10/2012 [1,**]	520.88	10.18	510.91	0.26	0.00	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	05/30/2012	520.88					Sorbent Sock Installed								
MW-14 [2,5]	06/14/2012**	520.88	10.36	510.65	0.16	1.25	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	06/25/2012**	520.88	10.44	510.47	0.04	0.98	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	07/11/2012**	520.88	10.52	510.41	0.06	1.34	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	07/24/2012**	520.88	10.70	510.20	0.02	0.45	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	08/08/2012**	520.88	13.74	507.16	0.03	0.46	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	08/22/2012	520.88	10.78	510.10	-	0.33	22,000	890	990	600	2,600	1,200	1,000	<250	145,000
MW-14 [2,5]	09/04/2012	520.88	10.82	510.06	-	0.16	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	09/21/2012	520.88	10.69	510.19	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/02/2012	520.88	10.65	510.23	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/17/2012	520.88	10.70	510.18	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	10/29/2012	520.88	10.62	510.26	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	11/29/2012	520.88	10.68	510.20	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	02/14/2013	520.88	10.22	510.66	-	-	4,200	170	120	61	410	-	-	-	-
MW-14 [2,5]	05/20/2013	520.88	10.51	510.37	-	-	-	-	-	-	-	-	-	-	-
MW-14 [2,5]	07/30/2013	520.88	10.92	509.96	-	-	6,500	370	110	140	430	-	-	-	-
MW-14 [2,5]	11/06/2013	520.88	11.03	509.85	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14 [2,5]	**01/30/2014**	**520.88**	**11.03**	**509.85**	**-**	**-**	**4,300**	**230**	**64**	**80**	**220**	**-**	**-**	**-**	**-**
MW-15 [4]	08/24/2010	520.87	10.81	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	01/31/2011	520.87	9.86	511.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	08/09/2011	520.87	9.56	511.31	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4]	02/09/2012	520.87	10.44	510.43	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4,5]	05/10/2012	520.87	10.05	510.82	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	08/22/2012	520.87	10.87	510.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<10	2,100	267,000
MW-15 [4,5]	11/29/2012	520.87	10.70	510.17	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	02/14/2013	520.87	10.16	510.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-15 [4,5]	05/20/2013	520.87	10.58	510.29	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	07/30/2013	520.87	11.00	509.87	-	-	<50	<0.5	<0.5	<0.5	0.6	-	-	-	-
MW-15 [4,5]	11/06/2013	520.87	11.07	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-15 [4,5]	**01/30/2014**	**520.87**	**11.06**	**509.81**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-16 [3]	08/24/2010	520.50	11.07	509.43	-	-	68	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	01/31/2011	520.50	9.99	510.51	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	08/09/2011	520.50	9.59	510.91	-	-	66	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3]	02/09/2012	520.50	10.62	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	05/10/2012	520.50	10.18	510.32	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	08/22/2012	520.50	11.08	509.42	-	-	<50	<0.5	<0.5	<0.5	<0.5	1,000	16	590	49,400
MW-16 [3,5]	11/29/2012	520.50	10.86	509.64	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	02/14/2013	520.50	10.27	510.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	05/20/2013	520.50	10.70	509.80	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	07/30/2013	520.50	11.12	509.38	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-16 [3,5]	11/06/2013	520.50	11.16	509.34	-	-	-	-	-	-	-	-	-	-	-
MW-16 [3,5]	**01/30/2014**	**520.50**	**11.35**	**509.15**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-17 [3]	02/07/2012	524.81	14.50	510.31	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-17 [3]	02/09/2012	524.81	14.58	510.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	05/10/2012	524.81	14.10	510.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	08/22/2012	524.81	14.54	510.27	-	-	<50	<0.5	<0.5	<0.5	<0.5	25	<10	3,700	77,400
MW-17 [3]	11/29/2012	524.81	14.75	510.06	-	-	<50	<0.5	<0.5	<0.5	<0.5	39	77	3,200	67,900
MW-17 [3]	02/14/2013	524.81	14.25	510.56	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	05/20/2013	524.81	14.65	510.16	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	07/30/2013	524.81	15.09	509.72	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	11/06/2013	524.81	14.93	509.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-17 [3]	**01/30/2014**	**524.81**	**14.90**	**509.91**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-18 [2]	02/07/2012	522.40	12.01	510.39	-	-	-	-	-	-	-	-	-	-	-
MW-18 [2]	02/09/2012	522.40	12.06	510.34	-	-	12,000	200	1,300	68	2,200	-	-	-	-
MW-18 [2]	05/10/2012	522.40	11.60	510.80	-	-	6,700	220	390	380	720	-	-	-	-
MW-18 [2]	08/22/2012	522.40	12.50	509.90	-	-	3,600	80	310	170	550	240	2,500	580	143,000
MW-18 [2]	11/29/2012	522.40	12.36	510.04	-	-	2,000	44	25	96	190	320	2,400	<250	117,000
MW-18 [2]	02/14/2013	522.40	11.76	510.64	-	-	3,000	130	5	270	160	-	-	-	-
MW-18 [2]	05/20/2013	522.40	12.11	510.29	-	-	1,200	28	47	52	130	-	-	-	-
MW-18 [2]	07/30/2013	522.40	12.57	509.83	-	-	6,400	270	230	440	1,100	-	-	-	-
MW-18 [2]	11/06/2013	522.40	12.67	509.73	-	-	1,400	43	28	74	190	-	-	-	-
MW-18 [2]	**01/30/2014**	**522.40**	**12.70**	**509.70**	**-**	**-**	**220**	**0.6**	**0.8**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-19 [2]	02/07/2012	522.63	12.30	510.33	-	-	-	-	-	-	-	-	-	-	-
MW-19 [2]	02/09/2012	522.63	12.39	510.24	-	-	6,700	4	<3	18	35	-	-	-	-
MW-19 [2]	05/10/2012	522.63	11.92	510.71	-	-	1,500	<0.5	<0.5	0.7	0.9	-	-	-	-
MW-19 [2]	08/22/2012	522.63	12.80	509.83	-	-	1,300	<0.5	<0.5	17	2	1,900	820	<250	32,900
MW-19 [2]	11/29/2012	522.63	12.64	509.99	-	-	58	<0.5	<0.5	<0.5	<0.5	15	1,800	<250	41,200
MW-19 [2]	02/14/2013	522.63	12.08	510.55	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	05/20/2013	522.63	12.44	510.19	-	-	4,700	6	2	43	7	-	-	-	-
MW-19 [2]	07/30/2013	522.63	12.93	509.70	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*LNAPLT*	*LNAPL REMOVED*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Methane*	*Ferrous iron*	*Nitrate as Nitrogen*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-19 [2]	11/06/2013	522.63	12.96	509.67	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
MW-19 [2]	**01/30/2014**	**522.63**	**13.05**	**509.58**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**
MW-20 [2]	02/07/2012	520.28	9.60	510.68	-	-	-	-	-	-	-	-	-	-	-
MW-20 [2]	02/09/2012	520.28	9.68	510.60	-	-	9,100	3	94	200	600	-	-	-	-
MW-20 [2]	05/10/2012	520.28	9.32	510.96	-	-	3,900	<5	28	42	230	-	-	-	-
MW-20 [2]	08/22/2012	520.28	10.12	510.16	-	-	4,800	<5	42	120	320	37	2,800	<250	234,000
MW-20 [2]	11/29/2012	520.28	9.99	510.29	-	-	4,200	<0.5	9	41	95	23	11,100	<250	131,000
MW-20 [2]	02/14/2013	520.28	9.43	510.85	-	-	2,000	<5	<5	<5	<5	-	-	-	-
MW-20 [2]	05/20/2013	520.28	9.78	510.50	-	-	3,000	<0.5	1	24	30	-	-	-	-
MW-20 [2]	07/30/2013	520.28	10.28	510.00	-	-	2,800	<0.5	3	23	17	-	-	-	-
MW-20 [2]	11/06/2013	520.28	10.27	510.01	-	-	1,900	<0.5	2	18	17	-	-	-	-
MW-20 [2]	**01/30/2014**	**520.28**	**10.33**	**509.95**	**-**	**-**	**1,100**	**<0.5**	**<0.5**	**1**	**<0.5**	**-**	**-**	**-**	**-**
QA	08/24/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	01/31/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/09/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/10/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	08/22/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/29/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	02/14/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	05/20/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	07/30/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	11/06/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-
QA	**01/30/2014**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**	**-**	**-**	**-**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211253
930 SPRINGTOWN BOULEVARD
LIVERMORE, CALIFORNIA

							HYDROCARBONS	*PRIMARY VOCS*				*GENERAL CHEMISTRY*			
Location	Date	***TOC***	***DTW***	***GWE***	***LNAPLT***	***LNAPL REMOVED***	***TPH-GRO***	***B***	***T***	***E***	***X***	***Methane***	***Ferrous iron***	***Nitrate as Nitrogen***	***Sulfate***
	Units	*ft*	*ft*	*ft-amsl*	*ft*	*gallons*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated concentration

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE was corrected for the presence of LNAPL; correction factor: [(TOC - DTW) + (LNAPLT x 0.80)].

1 Not sampled due to the presence of LNAPL.

2 Shallow well

3 Intermediate well

4 Deep well

5 Sampled semi-annually during the first and third quarters

6 Insufficient water

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-9										
07/23/09[1]	523.14	13.00	510.14	0.00	0.00	5,200	4	5	310	100
11/09/09	523.14	12.70	510.44	0.00	0.00	240	4	4	2	5
02/22/10	523.14	11.93	511.21	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**523.14**	**12.22**	**510.92**	**0.00**	**0.00**	**6,200**	**9**	**5**	**470**	**110**
MW-10										
07/23/09[1]	522.76	12.59	510.17	0.00	0.00	16,000	220	440	440	660
11/09/09	522.76	12.30	510.46	0.00	0.00	2,800	1	2[3]	30	30
02/22/10	522.76	11.52	511.24	0.00	0.00	3,600	9	2	61	10
05/24/10	**522.76**	**11.82**	**510.94**	**0.00**	**0.00**	**3,000**	**12**	**3**	**110**	**22**
MW-11										
07/23/09[1]	523.25	13.05	510.20	0.00	0.00	5,400	25	28	62	66
11/09/09	523.25	12.73	510.52	0.00	0.00	1,100	3	0.6[3]	2	2
02/22/10	523.25	11.96	511.29	0.00	0.00	1,400	2	<0.5	5	0.9
05/24/10	**523.25**	**12.27**	**510.98**	**0.00**	**0.00**	**1,700**	**1**	**<0.5**	**10**	**0.6**
MW-12										
07/23/09[1]	523.42	13.03	510.41**	0.02	5.01[2]	48,000	340	3,100	1,300	7,600
11/09/09	523.42	12.78	510.64	0.00	0.00	18,000	290	560	22	3,100
02/22/10	523.42	12.13	511.29	0.00	0.00	14,000	190	590	310	1,400
05/24/10	**523.42**	**12.38**	**511.04**	**0.00**	**0.00**	**17,000**	**150**	**530**	**320**	**1,400**
MW-13										
07/23/09[1]	523.12	12.75	510.37	0.00	0.00	52,000	760	6,200	980	13,000
11/09/09	523.12	12.51	510.61	0.00	0.00	12,000	340	1,300	16	1,700
02/22/10	523.12	11.87	511.25	0.00	0.00	13,000	630	600	22	960
05/24/10	**523.12**	**12.10**	**511.02**	**0.00**	**0.00**	**15,000**	**950**	**670**	**130**	**790**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	SPHT (ft.)	SPH REMOVED (gallons)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW-14										
07/23/09[1]	520.88	10.40	510.48	0.00	0.00	8,400	230	460	180	670
11/09/09	520.88	10.11	510.77	0.00	0.00	23,000	1,800	1,900	750	2,600
02/22/10	520.88	9.37	511.51	0.00	0.00	48,000	3,600	7,900	2,100	9,400
05/24/10	**520.88**	**9.88**	**511.25****	**0.31**	**0.00**	**NOT SAMPLED DUE TO THE PRESENCE OF SPH**				**--**
MW-15										
07/23/09[1]	520.87	10.33	510.54	0.00	0.00	2,500	6	17	16	320
11/09/09	520.87	10.18	510.69	0.00	0.00	20,000	110	590	370	4,900
02/22/10	520.87	9.48	511.39	0.00	0.00	66	<0.5	3	1	6
05/24/10	**520.87**	**9.83**	**511.04**	**0.00**	**0.00**	**70**	**1**	**8**	**1**	**8**
MW-16										
07/23/09[1]	520.50	10.63	509.87	0.00	0.00	430	0.6	<0.5	<0.5	<0.5
11/09/09	520.50	10.31	510.19	0.00	0.00	180	<0.5	<0.5	<0.5	<0.5
02/22/10	520.50	9.63	510.87	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**520.50**	**9.88**	**510.62**	**0.00**	**0.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA										
07/23/09	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
11/09/09	--	--	--	--	--	<50	<0.5	1[4]	<0.5	<0.5
02/22/10	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5
05/24/10	**--**	**--**	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station #211253

930 Springtown Boulevard

Livermore, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
(msl) = Mean Sea Level
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
(µg/L) = Micrograms per liter

* TOC elevations were surveyed on July 22, 2009, by Morrow Surveying. Vertical datum is NAVD 88 from GPS Observations.

** GWE has been corrected due to the presence of SPH; correction factor: [(TOC - DTW) + (SPHT x 0.80)].

ANALYTICAL METHODS:

TPH-GRO analyzed by EPA Method 8015
BTEX analyzed by EPA Method 8260

[1] Well development preformed.

[2] Product + water removed.

[3] The Laboratory report indicates the result reported for toluene in this sample may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. The trip blank associated with this sample had a trace toluene detection of 1 ug/l. Please refer to the letter accompanying the lab report for further explanation.

[4] The Laboratory report indicates the result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer. Please refer to the letter accompanying the lab report for further explanation.

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-A	01/02/1992	NA	NA	NA	NA	NA	NA	NA	520.10	13.61	506.49
MW-A	04/02/1992	27000	1200	570	1700	2300	NA	NA	520.10	12.44	507.66
MW-A	07/21/1992	57000	1500	1800	2700	7100	NA	NA	520.10	13.35	506.75
MW-A	10/09/1992	56000	2900	2600	4600	12000	NA	NA	520.10	12.92	507.18
MW-A	01/11/1993	NA	NA	NA	NA	NA	NA	NA	520.10	11.78	508.32
MW-A	05/05/1993	NA	NA	NA	NA	NA	NA	NA	520.10	11.39	508.71
MW-A	08/09/1993	NA	NA	NA	NA	NA	NA	NA	520.10	12.80	507.30
MW-A	10/14/1993	NA	NA	NA	NA	NA	NA	NA	520.10	13.48	506.62
MW-A	01/24/1994	1400000	6900	2100	15000	38000	NA	NA	520.10	12.74	507.36
MW-A	05/31/1994	48000	1200	900	1900	4200	NA	NA	520.10	12.28	507.82
MW-A	08/31/1994	24000	140	120	830	1500	NA	NA	520.10	13.20	506.90
MW-A	11/02/1994	15000	230	360	1100	1800	NA	NA	520.10	13.15	506.95
MW-A	02/20/1995	12000	290	330	570	1300	NA	NA	520.10	11.71	508.39
MW-A	05/09/1995	1200	6.1	5.9	12	15	NA	NA	520.10	12.37	507.73
MW-A	08/21/1995	9600	85	140	250	860	160	NA	520.10	11.37	508.73
MW-A	10/20/1995	360	5.2	7.9	15	43	NA	NA	520.10	12.04	508.06
MW-A	02/07/1996	6100	130	180	320	840	NA	NA	520.10	10.11	509.99
MW-A	04/30/1996	410	1.2	0.67	1.2	1.5	NA	NA	520.10	10.28	509.82
MW-A	08/14/1996	3000	65	75	170	460	57	NA	520.10	10.82	509.28
MW-A	11/22/1996	6300	100	170	310	710	64	NA	520.10	10.97	509.13
MW-A	02/14/1997	8100	140	180	700	1600	<300	NA	520.10	10.00	510.10
MW-A	05/23/1997	24000	340	520	1600	3800	<2000	NA	520.10	11.36	508.74
MW-A	07/25/1997	440	<0.5	<0.5	<0.5	<0.5	<30	NA	520.10	11.66	508.44
MW-A	10/31/1997	3700	21	48	200	430	35	NA	520.10	11.56	508.54
MW-A	02/06/1998	1500	2.1	4.4	55	77	<30	NA	520.10	9.00	511.10
MW-A	05/19/1998	32000	310	380	1800	3700	1300	NA	520.10	9.85	510.25

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-A	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	520.10	10.04	510.06
MW-A	11/04/1998	15000	86	180	960	1800	<50	<50	520.10	11.09	509.01
MW-A	11/11/1999	1010	4.72	<2.50	26.1	59.9	87.6	<0.500	520.10	11.39	508.71
MW-A	04/03/2000	12800	23.8	54.9	704	1070	242	NA	520.10	10.41	509.69
MW-A	10/16/2000	4810	51.6	<20.0	251	434	108	<10.0	520.10	11.59	508.51
MW-A	06/28/2001	1100	1.2	2.4	51	64	NA	<0.50	520.10	12.13	507.97
MW-A	10/22/2001	15000	24	38	1000	980	NA	<5.0	520.10	12.74	507.36
MW-A	**01/04/2002**	**9100**	**4.1**	**6.5**	**450**	**360**	**NA**	**<20**	**520.10**	**10.83**	**509.27**
MW-B	01/02/1992	NA	NA	NA	NA	NA	NA	NA	518.05	11.27	506.78
MW-B	04/02/1992	1900	ND	39	24	35	NA	NA	518.05	10.18	507.87
MW-B	07/21/1992	16000	180	1600	270	1100	NA	NA	518.05	11.27	506.78
MW-B	10/09/1992	38000	490	8300	1400	5100	NA	NA	518.05	11.64	506.41
MW-B	01/11/1993	NA	NA	NA	NA	NA	NA	NA	518.05	9.65	508.40
MW-B	05/05/1993	NA	NA	NA	NA	NA	NA	NA	518.05	9.28	508.77
MW-B	08/09/1993	NA	NA	NA	NA	NA	NA	NA	518.05	11.02	507.03
MW-B	10/14/1993	NA	NA	NA	NA	NA	NA	NA	518.05	11.34	506.71
MW-B	01/24/1994	23000	110	1700	600	1900	NA	NA	518.05	10.54	507.51
MW-B	05/31/1994	13000	780	310	370	1400	NA	NA	518.05	10.19	507.86
MW-B	08/31/1994	35000	160	2800	1000	4500	NA	NA	518.05	10.98	507.07
MW-B	11/02/1994	2500	170	3200	1100	4700	NA	NA	518.05	10.90	507.15
MW-B	02/20/1995	10000	46	1400	330	1200	NA	NA	518.05	9.47	508.58
MW-B	05/09/1995	4100	9.1	47	26	30	NA	NA	518.05	10.58	507.47
MW-B	08/21/1995	4000	9.6	110	120	270	98	NA	518.05	9.34	508.71
MW-B	10/20/1995	9300	35	1300	370	1300	NA	NA	518.05	9.83	508.22
MW-B	02/07/1996	8900	33	700	110	360	NA	NA	518.05	7.85	510.20
MW-B	04/30/1996	5500	17	460	120	400	NA	NA	518.05	8.02	510.03

WELL CONCENTRATIONS
Former Texaco Service Station
930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-B	08/14/1996	9000	<5	260	120	320	<300	NA	518.05	8.66	509.39
MW-B	11/22/1996	560000	56	2400	1600	5500	<3000	NA	518.05	8.70	509.35
MW-B	02/14/1997	4600	5.2	110	72	210	<300	NA	518.05	7.75	510.30
MW-B	05/23/1997	34000	75	1700	590	2100	1800	NA	518.05	9.05	509.00
MW-B	07/25/1997	39000	250	5200	1600	5900	<800	NA	518.05	9.37	508.68
MW-B	10/31/1997	36000	130	2600	1200	4800	<800	NA	518.05	9.29	508.76
MW-B	02/06/1998	4800	10	120	72	200	<80	NA	518.05	6.68	511.37
MW-B	05/19/1998	25000	200	900	410	1600	570	NA	518.05	7.57	510.48
MW-B	07/31/1998	580	<0.5	<0.5	<0.5	<0.5	14	NA	518.05	8.03	510.02
MW-B	11/04/1998	24000	150	1400	850	2400	<50	<66	518.05	8.85	509.20
MW-B	11/11/1999	685	7.22	14.7	6.10	17.8	<12.5	NA	518.05	9.03	509.02
MW-B	04/03/2000	9250	106	477	346	1320	231	<1.00a	518.05	8.14	509.91
MW-B	10/16/2000	1280	14.5	13.8	13.3	38.8	26.5	NA	518.05	9.42	508.63
MW-B	06/28/2001	16000	29	550	470	1700	NA	<2.5	518.05	9.81	508.24
MW-B	10/22/2001	7000	20	400	330	1100	NA	<20	518.05	10.44	507.61
MW-B	**01/04/2002**	**10000**	**11**	**240**	**280**	**1100**	**NA**	**<20**	**518.05**	**8.46**	**509.59**
MW-1	01/02/1992	16	6	ND	ND	ND	NA	NA	520.61	14.11	506.50
MW-1	04/02/1992	ND	ND	ND	ND	ND	NA	NA	520.61	12.98	507.63
MW-1	07/21/1992	<50	3.2	<0.5	<0.5	<0.5	NA	NA	520.61	13.92	506.69
MW-1	10/09/1992	<50	8.5	<0.5	<0.5	<0.5	NA	NA	520.61	14.25	506.36
MW-1	01/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.30	508.31
MW-1	05/05/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	11.88	508.73
MW-1	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.63	506.98
MW-1	10/14/1993	440	16	2.9	2.9	11	NA	NA	520.61	13.91	506.70
MW-1	01/24/1993	NA	NA	NA	NA	NA	NA	NA	520.61	13.12	507.49
MW-1	05/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.74	507.87

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.68	506.93
MW-1	11/02/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	13.48	507.13
MW-1	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.02	508.59
MW-1	05/09/1995	450	22	25	23	100	NA	NA	520.61	12.83	507.78
MW-1	08/21/1995	58	<0.5	1.5	1.8	4.5	<10	NA	520.61	11.93	508.68
MW-1	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	12.40	508.21
MW-1	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	520.61	10.42	510.19
MW-1	04/30/1996	NA	NA	NA	NA	NA	NA	NA	520.61	10.48	510.13
MW-1	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	11.18	509.43
MW-1	11/22/1996	NA	NA	NA	NA	NA	NA	NA	520.61	11.10	509.51
MW-1	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	10.25	510.36
MW-1	05/23/1997	NA	NA	NA	NA	NA	NA	NA	520.61	11.48	509.13
MW-1	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	11.99	508.62
MW-1	10/31/1997	NA	NA	NA	NA	NA	NA	NA	520.61	11.74	508.87
MW-1	02/06/1998	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	520.61	9.27	511.34
MW-1	05/19/1998	NA	NA	NA	NA	NA	NA	NA	520.61	10.51	510.10
MW-1	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	520.61	10.41	510.20
MW-1	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	520.61	11.32	509.29
MW-1	11/11/1999	82.5	6.35	7.08	4.76	10.9	3.13	1.08	520.61	11.54	509.07
MW-1	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	520.61	10.65	509.96
MW-1	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	520.61	11.91	508.70
MW-1	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	0.65	520.61	12.37	508.24
MW-1	10/22/2001	<50	<0.50	<0.50	<0.50	0.55	NA	<5.0	520.61	12.90	507.71
MW-1	**01/04/2002**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**520.61**	**11.02**	**509.59**
MW-2	01/02/1992	ND	ND	ND	ND	ND	NA	NA	518.29	11.96	506.33
MW-2	04/02/1992	ND	ND	ND	ND	ND	NA	NA	518.29	10.89	507.40

WELL CONCENTRATIONS
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Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	07/21/1992	NA	NA	NA	NA	NA	NA	NA	518.29	11.55	506.74
MW-2	05/31/1994	NA	NA	NA	NA	NA	NA	NA	518.29	10.37	507.92
MW-2	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	11.16	507.13
MW-2	11/02/1994	NA	NA	NA	NA	NA	NA	NA	518.29	11.07	507.22
MW-2	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	9.66	508.63
MW-2	05/09/1995	NA	NA	NA	NA	NA	NA	NA	518.29	10.14	508.15
MW-2	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	518.29	9.58	508.71
MW-2	10/20/1995	NA	NA	NA	NA	NA	NA	NA	518.29	9.91	508.38
MW-2	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.29	8.00	510.29
MW-2	04/30/1996	NA	NA	NA	NA	NA	NA	NA	518.29	8.21	510.08
MW-2	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	8.88	509.41
MW-2	11/22/1996	NA	NA	NA	NA	NA	NA	NA	518.29	8.88	509.41
MW-2	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	7.92	510.37
MW-2	05/23/1997	NA	NA	NA	NA	NA	NA	NA	518.29	9.25	509.04
MW-2	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.29	9.51	508.78
MW-2	10/31/1997	NA	NA	NA	NA	NA	NA	NA	518.29	9.30	508.99
MW-2	02/06/1998	<50	<0.5	<0.5	<0.5	1.4	<30	NA	518.29	6.88	511.41
MW-2	05/19/1998	NA	NA	NA	NA	NA	NA	NA	518.29	8.35	509.94
MW-2	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	518.29	8.14	510.15
MW-2	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	518.29	9.00	509.29
MW-2	11/11/1999	65.8	6.34	7.04	4.71	10.8	3.21	1.04	518.29	9.19	509.10
MW-2	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.29	8.31	509.98
MW-2	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.29	9.36	508.93
MW-2	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	518.29	9.88	508.41
MW-2	10/22/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	518.29	10.54	507.75
MW-2	01/04/2002	NA	NA	NA	NA	NA	NA	NA	518.29	8.63	509.66

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MW-3	01/02/1992	340	0.4	ND	ND	ND	NA	NA	519.60	12.87	506.73
MW-3	04/02/1992	160	5	ND	0.3	0.5	NA	NA	519.60	11.97	507.63
MW-3	07/21/1992	260	1.7	<0.5	<0.5	<0.5	NA	NA	519.60	12.60	507.00
MW-3	10/09/1992	88	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.93	506.67
MW-3	01/11/1993	130	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	11.16	508.44
MW-3	05/05/1993	340	1.8	<0.5	1.3	<0.5	NA	NA	519.60	10.72	508.88
MW-3	08/09/1993	610	18	<0.5	2.4	0.9	NA	NA	519.60	12.34	507.26
MW-3	10/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.71	506.89
MW-3	01/24/1994	320	3.5	<0.5	<0.5	<0.5	NA	NA	519.60	12.03	507.57
MW-3	05/31/1994	830	11	12	5.0	1.2	NA	NA	519.60	11.54	508.06
MW-3	08/31/1994	660	2	<0.5	1	<0.5	NA	NA	519.60	12.60	507.00
MW-3	11/02/1994	1500	260	36	34	76	NA	NA	519.60	12.16	507.44
MW-3	02/20/1995	410	1.2	1.9	1.4	2.2	NA	NA	519.60	11.05	508.55
MW-3	05/09/1995	730	23	43	21	95	NA	NA	519.60	11.97	507.63
MW-3	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	519.60	7.60	512.00
MW-3	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	11.46	508.14
MW-3	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	519.60	9.42	510.18
MW-3	04/30/1996	NA	NA	NA	NA	NA	NA	NA	519.60	9.60	510.00
MW-3	08/14/1996	<50	<0.5	0.60	<0.5	<0.5	<30	NA	519.60	10.24	509.36
MW-3	11/22/1996	NA	NA	NA	NA	NA	NA	NA	519.60	10.34	509.26
MW-3	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	519.60	9.38	510.22
MW-3	05/23/1997	NA	NA	NA	NA	NA	NA	NA	519.60	10.67	508.93
MW-3	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	519.60	11.11	508.49
MW-3	10/31/1997	NA	NA	NA	NA	NA	NA	NA	519.60	10.86	508.74
MW-3	02/06/1998	63	1.5	2.8	0.77	8.6	<30	NA	519.60	8.41	511.19
MW-3	05/19/1998	NA	NA	NA	NA	NA	NA	NA	519.60	9.40	510.20
MW-3	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	519.60	9.04	510.56

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MW-3	11/04/1998	230	11	7.2	7.6	33	18	14	519.60	10.45	509.15
MW-3	11/11/1999	569	103	47.1	14.1	29.6	521	604	519.60	10.73	508.87
MW-3	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	519.60	9.78	509.82
MW-3	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	519.60	10.97	508.63
MW-3	06/28/2001	110	<0.50	<0.50	0.56	1.8	NA	1.8	519.60	11.49	508.11
MW-3	10/22/2001	190	1.4	1.3	1.2	7.7	NA	<5.0	519.60	12.08	507.52
MW-3	**01/04/2002**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**519.60**	**10.18**	**509.42**
MW-4	01/02/1992	ND	ND	ND	ND	ND	NA	NA	518.79	12.22	506.57
MW-4	04/02/1992	ND	ND	ND	ND	ND	NA	NA	518.79	11.03	507.76
MW-4	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.36	506.43
MW-4	10/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.40	506.39
MW-4	01/11/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.72	508.07
MW-4	05/05/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.21	508.58
MW-4	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.25	506.54
MW-4	10/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.58	506.21
MW-4	01/24/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	11.72	507.07
MW-4	05/31/1994	NA	NA	NA	NA	NA	NA	NA	518.79	11.29	507.50
MW-4	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	12.00	506.79
MW-4	11/02/1994	NA	NA	NA	NA	NA	NA	NA	518.79	11.96	506.83
MW-4	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.42	508.37
MW-4	05/09/1995	NA	NA	NA	NA	NA	NA	NA	518.79	11.22	507.57
MW-4	08/21/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	NA	518.79	10.51	508.28
MW-4	10/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	10.86	507.93
MW-4	02/07/1996	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	518.79	8.93	509.86
MW-4	04/30/1996	NA	NA	NA	NA	NA	NA	NA	518.79	9.03	509.76
MW-4	08/14/1996	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	9.84	508.95

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MW-4	11/22/1996	NA	NA	NA	NA	NA	NA	NA	518.79	9.73	509.06
MW-4	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	8.85	509.94
MW-4	05/23/1997	NA	NA	NA	NA	NA	NA	NA	518.79	10.15	508.64
MW-4	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	10.61	508.18
MW-4	10/31/1997	NA	NA	NA	NA	NA	NA	NA	518.79	10.36	508.43
MW-4	02/06/1998	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	518.79	7.46	511.33
MW-4	05/19/1998	NA	NA	NA	NA	NA	NA	NA	518.79	8.91	509.88
MW-4	07/31/1998	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	518.79	8.99	509.80
MW-4	11/04/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	518.79	10.08	508.71
MW-4	11/11/1999	83.6	6.50	7.52	4.31	9.59	<2.50	NA	518.79	9.81	508.98
MW-4	04/03/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.79	9.24	509.55
MW-4	10/16/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	518.79	10.49	508.30
MW-4	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	518.79	10.82	507.97
MW-4	10/22/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	518.79	11.45	507.34
MW-4	**01/04/2002**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**518.79**	**9.43**	**509.36**
MW-5	01/02/1992	1800	74	41	84	94	NA	NA	521.19	14.56	506.63
MW-5	04/02/1992	ND	ND	ND	ND	ND	NA	NA	521.19	13.58	507.61
MW-5	07/21/1992	1000	69	16	40	31	NA	NA	521.19	13.77	507.42
MW-5	10/09/1992	3400	890	51	110	110	NA	NA	521.19	14.09	507.10
MW-5	01/11/1993	15000	460	110	900	370	NA	NA	521.19	12.24	508.95
MW-5	05/05/1993	4500	160	19	280	110	NA	NA	521.19	11.90	509.29
MW-5	08/09/1993	2300	180	19	130	80	NA	NA	521.19	13.35	507.84
MW-5	10/14/1993	2200	160	27	90	64	NA	NA	521.19	13.89	507.30
MW-5	01/24/1994	2600	69	11	65	25	NA	NA	521.19	13.32	507.87
MW-5	05/31/1994	3100	130	64	140	120	NA	NA	521.19	12.75	508.44
MW-5	08/31/1994	600	20	2.9	14	7.1	NA	NA	521.19	14.34	506.85

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MW-5	11/02/1994	2300	68	18	52	54	NA	NA	521.19	14.22	506.97
MW-5	02/20/1995	12000	130	<30	240	138	NA	NA	521.19	12.78	508.41
MW-5	05/09/1995	2500	57	60	54	37	NA	NA	521.19	13.41	507.78
MW-5	08/21/1995	11000	91	28	140	120	<100	<100	521.19	12.32	508.87
MW-5	10/20/1995	2300	38	3.8	28	19	NA	NA	521.19	13.28	507.91
MW-5	02/07/1996	1800	35	8.1	37	20	NA	NA	521.19	11.31	509.88
MW-5	04/30/1996	NA	NA	NA	NA	NA	NA	NA	521.19	11.52	509.67
MW-5	08/14/1996	3500	130	22	170	47	71	NA	521.19	12.03	509.16
MW-5	11/22/1996	3500	160	15	190	28	<200	NA	521.19	12.22	508.97
MW-5	02/14/1997	2900	150	54	330	68	<300	NA	521.19	11.20	509.99
MW-5	05/23/1997	10000	170	98	380	68	<200	NA	521.19	12.55	508.64
MW-5	07/25/1997	2700	110	<0.5	33	<0.5	<30	NA	521.19	12.93	508.26
MW-5	10/31/1997	NA	NA	NA	NA	NA	NA	NA	521.19	12.78	508.41
MW-5	02/06/1998	67	<0.5	<0.5	<0.5	<0.5	<30	NA	521.19	10.26	510.93
MW-5	05/19/1998	4200	120	25	360	76	510	NA	521.19	11.12	510.07
MW-5	07/31/1998	270	<0.5	<0.5	<0.5	<0.5	<2.5	NA	521.19	11.79	509.40
MW-5	11/04/1998	2800	120	14	590	140	<25	<10	521.19	12.33	508.86
MW-5	11/11/1999	1220	40.5	22.8	16.4	6.22	<12.5	NA	521.19	12.64	508.55
MW-5	04/03/2000	5060	130	20.8	281	30.6	74.1	NA	521.19	11.64	509.55
MW-5	10/16/2000	2070	35.4	33.6	114	57.6	50.1	NA	521.19	12.82	508.37
MW-5	06/28/2001	1500	15	2.5	74	5.5	NA	<0.50	521.19	13.40	507.79
MW-5	10/22/2001	2400	37	2.9	75	7.3	NA	<5.0	521.19	13.99	507.20
MW-5	**01/04/2002**	**3400**	**8.9**	**1.2**	**22**	**13**	**NA**	**<5.0**	**521.19**	**12.13**	**509.06**
MW-6	01/02/1992	23	ND	0.3	0.6	3	NA	NA	522.18	16.64	505.54
MW-6	04/02/1991	ND	ND	ND	ND	ND	NA	NA	522.18	15.61	506.57
MW-6	07/21/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.53	506.65

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MW-6	10/09/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.69	506.49
MW-6	08/09/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	14.50	507.68
MW-6	10/14/1993	NA	NA	NA	NA	NA	NA	NA	522.18	NA	NA
MW-6	01/24/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.09	507.09
MW-6	05/31/1994	NA	NA	NA	NA	NA	NA	NA	522.18	14.64	507.54
MW-6	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	15.32	506.86
MW-6	11/02/1994	NA	NA	NA	NA	NA	NA	NA	522.18	15.32	506.86
MW-6	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	522.18	14.07	508.11
MW-6	05/09/1995	NA	NA	NA	NA	NA	NA	NA	522.18	14.30	507.88
MW-6	10/20/1995	NA	NA	NA	NA	NA	NA	NA	522.18	14.31	NA
MW-6	07/25/1997	NA	NA	NA	NA	NA	NA	NA	522.18	NA	NA
MW-7	01/02/1992	NA	NA	NA	NA	NA	NA	NA	522.19	11.17	511.02
MW-7	04/02/1992	ND	ND	ND	ND	ND	NA	NA	522.19	10.34	511.85
MW-7	07/21/1992	NA	NA	NA	NA	NA	NA	NA	522.19	9.02	513.17
MW-7	05/31/1994	NA	NA	NA	NA	NA	NA	NA	522.19	9.42	512.77
MW-7	08/31/1994	NA	NA	NA	NA	NA	NA	NA	522.19	6.84	515.35
MW-7	11/02/1994	NA	NA	NA	NA	NA	NA	NA	522.19	6.48	515.71
MW-7	02/20/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.71	514.48
MW-7	05/09/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.65	514.54
MW-7	08/21/1995	NA	NA	NA	NA	NA	NA	NA	522.19	7.83	514.36
MW-7	10/20/1995	NA	NA	NA	NA	NA	NA	NA	522.19	8.61	513.58
MW-7	07/25/1997	NA	NA	NA	NA	NA	NA	NA	522.19	NA	NA
MW-8	01/02/1992	12000	32	980	200	760	NA	NA	524.03	18.42	505.61
MW-8	04/02/1992	ND	ND	ND	ND	ND	NA	NA	524.03	17.39	506.64
MW-8	07/21/1992	NA	NA	NA	NA	NA	NA	NA	524.03	14.02	510.01

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MW-8	05/31/1994	NA	NA	NA	NA	NA	NA	NA	524.03	19.65	504.38
MW-8	08/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	524.03	17.40	506.63
MW-8	11/02/1994	NA	NA	NA	NA	NA	NA	NA	524.03	17.38	506.65
MW-8	02/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	524.03	15.99	508.04
MW-8	05/09/1995	NA	NA	NA	NA	NA	NA	NA	524.03	16.54	507.49
MW-8	08/21/1995	<50	<0.5	<0.5	0.67	0.62	<10	NA	524.03	15.77	508.26
MW-8	10/20/1995	NA	NA	NA	NA	NA	NA	NA	524.03	16.24	507.79
MW-8	02/07/1996	<50	7.0	<0.5	<0.5	<0.5	NA	NA	524.03	14.42	509.61
MW-8	04/30/1996	61	9.6	<0.5	<0.5	<0.5	NA	NA	524.03	14.65	509.38
MW-8	08/14/1996	<50	0.73	<0.5	<0.5	<0.5	<30	NA	524.03	15.08	508.95
MW-8	11/22/1996	120	5.9	2.2	2.4	8.3	<30	NA	524.03	15.35	508.68
MW-8	02/14/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	14.32	509.71
MW-8	05/23/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	13.35	510.68
MW-8	07/25/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	16.05	507.98
MW-8	10/31/1997	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	524.03	15.86	508.17
MW-8	02/06/1998	180	17	<0.5	<0.5	6.0	<30	NA	524.03	13.62	510.41
MW-8	05/19/1998	<50	4.9	<0.5	<0.5	<0.5	<2.5	NA	524.03	14.23	509.80
MW-8	07/31/1998	140	<0.5	<0.5	<0.5	<0.5	<2.5	NA	524.03	14.95	509.08
MW-8	11/04/1998	<50	1.2	100	1.9	7.8	<2.5	NA	524.03	15.42	508.61
MW-8	11/11/1999	<50.0	<0.500	<0.500	<0.500	<0.500	3.70	<0.500	524.03	15.74	508.29
MW-8	04/03/2000	87.7	10.8	<0.500	<0.500	<0.500	<2.50	NA	524.03	14.76	509.27
MW-8	10/16/2000	237	11.3	<0.500	<0.500	0.544	7.93	NA	524.03	15.91	508.12
MW-8	06/28/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	29	524.03	16.49	507.54
MW-8	10/22/2001	<50	<0.50	<0.50	<0.50	2.0	NA	<5.0	524.03	16.98	507.05
MW-8	01/04/2002	290	1.3	<0.50	<0.50	<0.50	NA	<5.0	524.03	15.29	508.74

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930 Springtown Boulevard
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 28, 2001. analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

ND = Not detected at or above the minimum quantitation limits.

Notes:

a = Sample analyzed outside of EPA recommended holding time.

For the event on April 3, 2000, the lab confirmed MTBE by 8260 for well MW-B instead of well MW-A.

ATTACHMENT C

HISTORIC GROUNDWATER ANALYTICAL DATA

GROUNDWATER ANALYTICAL DATA
FORMER TEXACO STATION (CHEVRON SITE #211253)
930 SPRINGTOWN BOULEVARD, LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
			Reported in micrograms per liter (µg/L)											
First Semi-Annual 2011 Groundwater Monitoring and Sampling Event														
MW-9	1/31/2011	5-15 ***	68	<0.5	3	<0.5	<0.5	--	--	--	--	--	--	--
MW-10	1/31/2011	22-27 ***	250	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-11	1/31/2011	5-15 ***	790	1	<0.5	5	3	--	--	--	--	--	--	--
MW-12	1/31/2011	22-27 ***	9,600	64	180	180	400	--	--	--	--	--	--	--
MW-13	1/31/2011	32-37 ***	22,000	1,600	1,600	270	1,600	--	--	--	--	--	--	--
MW-14	1/31/2011	5-15 ***	**Not Sampled due to LNAPL**					--	--	--	--	--	--	--
MW-15	1/31/2011	42-47 ***	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
MW-16	1/31/2011	25-30 ***	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
CRA 2007 - 2008 Subsurface Investigation														
CPT1	11/26/2007	16	1,700	7	110	21	140	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT1	11/26/2007	24	160,000	4,200	20,000	1,700	15,000	<25	<100	<25	<25	<25	<25	<25
CPT1	11/26/2007	34	30,000	1,500	1,600	710	2,900	<2	<8	<2	<2	<2	<2	<2
CPT2	11/20/2007	16	<50	0.6	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT2	11/20/2007	24	2,000	<0.5	<0.5	0.6	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT2	11/20/2007	34	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	**4**
CPT3	4/7/2008	26	1,500	1	1	<0.5	1	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT3	4/7/2008	40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT3	4/7/2008	50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT4	7/14/2008	24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT4	7/14/2008	48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT5	4/9/2008	28	200	0.5	6.0	6.0	31	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT5	4/9/2008	38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT5	4/9/2008	45	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT6	11/19/2007	32	94	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT6	11/20/2007	48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT7	4/8/2008	13	3,600	21	25	47	110	<0.5	<2	<0.5	<0.5	<0.5	<0.5	**0.8**
CPT7	4/9/2008	43	11,000	3	270	490	2,100	<1	<5	<1	<1	<1	<1	<1

GROUNDWATER ANALYTICAL DATA
FORMER TEXACO STATION (CHEVRON SITE #211253)
930 SPRINGTOWN BOULEVARD, LIVERMORE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*1,2-DCA*	*EDB*
			Reported in micrograms per liter (µg/L)											
1985 GTI Hydrocarbon Investigation														
MW-A	8/1/1985	--	184,000*	8,950**	54,300**	13,700**	52,100**	--	--	--	--	--	--	--
MW-B	8/1/1985	--	29,400*	2,590**	12,300**	2,880**	10,100**	--	--	--	--	--	--	--
MW-1	8/1/1985	--	10*	ND**	4**	2**	8**	--	--	--	--	--	--	--
MW-2	8/1/1985	--	390*	9**	9**	3**	6**	--	--	--	--	--	--	--
MW-3	8/1/1985	--	1,340*	20**	4**	1**	26**	--	--	--	--	--	--	--

Notes:

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified unless otherwise noted

Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB)

* =Reported as C4-C12 Aliphatic Hydrocarbons analyzed by EPA Method 602

**= Analyzed by EPA Method 602

fbg = feet below grade

<x = Not detected at reporting limit x

ND = Not detected above various laboratory method detection limits

NE= Not Established

-- = Not analyzed/not applicable

ATTACHMENT D

SWRCB LOW-THREAT CASE CLOSURE CHECKLIST

Site Name: Former Texaco 211253
Site Address: 930 Springtown Boulevard, Livermore, CA,

Site meets the criteria of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.[1]

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

[1] Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.

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