

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

February 5, 2015

Mr. Jose Rios  
7-Eleven, Inc.  
One Arts Plaza  
1722 Routh Street, Suite 1000  
Dallas, TX 75201  
(Sent via E-mail to: [jose.rios@7-11.com](mailto:jose.rios@7-11.com))

Mr. Michael Blau  
Michael H. Blau Trust  
PO Box 2768  
Danville, CA 94526

Subject: Case Closure for Fuel Leak Case No. RO0002999 and GeoTracker Global ID T10000001067, 7 Eleven #32266, 1339 North Vasco Road, Livermore, CA 94551

Dear Mr. Rios and Mr. Blau:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Dilan Roe, P.E.  
LOP and SCP Program Manager

Enclosures:   1.    Remedial Action Completion Certification  
                  2.    Case Closure Summary

Responsible Parties  
RO0002999  
February 5, 2015  
Page 2

Cc w/enc.:

Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566  
(Sent via E-mail to: [dstefani@lpfire.org](mailto:dstefani@lpfire.org))

Colleen Winey (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551  
(Sent via E-mail to: [cwiney@zone7water.com](mailto:cwiney@zone7water.com))

Danielle Manning, Stantec Consulting Corporation, 3017 Kilgore Road, Suite 100, Rancho Cordova, CA 95670 (Sent via E-mail to: [danielle.manning@stantec.com](mailto:danielle.manning@stantec.com))

Jerry Wickham, ACEH (Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org))  
GeoTracker, eFile

ALAMEDA COUNTY  
**HEALTH CARE SERVICES  
AGENCY**

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
OFFICE OF THE DIRECTOR  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502  
(510) 567-6777  
FAX (510) 337-9135

**REMEDIAL ACTION COMPLETION CERTIFICATION**

February 5, 2015

Mr. Jose Rios  
7-Eleven, Inc.  
One Arts Plaza  
1722 Routh Street, Suite 1000  
Dallas, TX 75201

(Sent via E-mail to: [jose.rios@7-11.com](mailto:jose.rios@7-11.com))

Mr. Michael Blau  
Michael H. Blau Trust  
PO Box 2768  
Danville, CA 94526

Subject: Case Closure for Fuel Leak Case No. RO0002999 and GeoTracker Global ID T10000001067, 7 Eleven #32266, 1339 North Vasco Road, Livermore, CA 94551

Dear Mr. Rios and Mr. Blau:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi  
Director



# UST Case Closure Summary Form

## Agency Information

Date: August 28, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: 510-567-6791
Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

## Case Information

Facility Name: 7 Eleven #32266		
Facility Address: 1339 North Vasco Road, Livermore, CA 94551		
RB LUSTIS Case No: ----	Local Case No.: ----	LOP Case No.: RO0002999
URF Filing Date: 01/19/2005	GeoTracker Global ID: T10000001067	
APN: 99B-8122-1	Current Land Use: Active Fueling Station	
Responsible Party(s):	Address:	Phone:
Jose Rios, 7-Eleven, Inc.	One Arts Plaza 1722 Routh Street, Suite 1000 Dallas, TX 75201	
Michael Blau Michael H. Blau Trust	P.O. Box 2768 Danville, CA 94526	

## Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
----	10,000 gallons	Gasoline	Removed	01/2005
----	15,000 gallons	Gasoline	Removed	01/2005

**Conceptual Site Model (Attachment 1, 2 pages)**

**Low-threat Closure Policy (LTCP) Checklist (Attachment 2, 1 page)**

**LTCP Groundwater Specific Criteria (Attachment 3, 1 page)**

**LTCP Vapor Specific Criteria (Attachment 4, 1 page)**

**LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 1 page)**

**Site Maps and Cross Sections (Attachment 6, 3 pages)**

**Analytical Data (Attachment 7, 6 pages)**

# UST Case Closure Summary Form

## Additional Information:

### Water Supply Wells in Vicinity:

Well #2S/2E-35G1 was identified as "not in use," from Zone 7 Water Agency records at 1289 Vasco Road. The address is approximately 150 feet south of the site. No water wells were identified in the area of 1289 Vasco Road. A water supply well was installed on April 17, 1962 at 5874 Scenic Avenue. The 5874 Scenic Avenue address is currently not linked to any building but is estimated to be 300 feet west of the site. At the time of well installation, the area was undeveloped agricultural land but is currently a housing development. Reconnaissance of the area did not find a water supply well. Well #2S/2E-35G2 was identified from Zone 7 Water Agency records at 1443 Vasco Road, which is directly north of the site. The address is currently the Vasco Quick Lube and no water supply wells were observed at the site. Based on these results, no water supply wells appear to be located within 1,000 feet of the site.

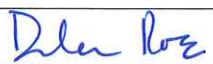
**Site Management Requirements:** : This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation,, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

### RWQCB Notification

Date Form Sent: August 11, 2014

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist
-----------------------------------	------------------------------

### Local Agency Representative

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 08/28/2014
Approved by: Dylan Roe	Title: LOP and SCP Program Manager
Signature: 	Date: 8/28/2014

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

# ATTACHMENT 1



CSM Report

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Go

7-ELEVEN #32266 (T10000001067) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

1339 NORTH VASCO ROAD  
LIVERMORE, CA 94551  
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)  
[PUBLIC WEBPAGE](#)

**CLEANUP OVERSIGHT AGENCIES**  
ALAMEDA COUNTY LOP (**LEAD**) - CASE #: RO0002999  
**CASEWORKER: Jerry Wickham** - **SUPERVISOR: DILAN ROE**  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

THIS PROJECT WAS LAST MODIFIED BY [JERRY WICKHAM](#) ON 8/12/2014 11:37:17 AM - [HISTORY](#)

**THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.**

**CSM REPORT** - [VIEW PUBLIC NOTICING VERSION OF THIS REPORT](#)

**UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIS)**

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	REVIEW NUM	REVIEWER	FIVE YEAR REVIEW INFORMATION		
									FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE

**PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)**

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
7-ELEVEN #32266 (Global ID: T10000001067) 1339 NORTH VASCO ROAD LIVERMORE, CA 94551	Open - Eligible for Closure	8/12/2014	12/18/2008	6	ALAMEDA COUNTY LOP ( <b>LEAD</b> ) - CASE #: RO0002999 <b>CASEWORKER: Jerry Wickham</b> - <b>SUPERVISOR: DILAN ROE</b> SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA

**STAFF NOTES (INTERNAL)**

<NO STAFF NOTES ENTERED>

**SITE HISTORY**

Petroleum hydrocarbons were detected in soil and groundwater samples collected during a tank removal in January 2005. Site assessment activities, which included installation of groundwater monitoring wells, were conducted from February 2010 to June 2013. Groundwater monitoring was conducted from March 2011 to April 2014. Based on these results, the site was evaluated for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. The case is under consideration for case closure.

**RESPONSIBLE PARTIES**

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
JOSE RIOS	7-Eleven, Inc.	PO BOX 711	DALLAS	<a href="mailto:jose.rios@7-11.com">jose.rios@7-11.com</a>

**CLEANUP ACTION INFO**

NO CLEANUP ACTIONS HAVE BEEN REPORTED

**RISK INFORMATION**

[VIEW LTCP CHECKLIST](#)

[VIEW PATH TO CLOSURE PLAN](#)

[VIEW CASE REVIEWS](#)

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Gasoline	Commercial	GW - Municipal and Domestic Supply		12/18/2008	Other Means	0

FREE PRODUCT	OTHER CONTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	City of Livermore; however, groundwater in the area is used for drinking water	8/11/2014	7/18/2014	7/7/2014		<a href="#">7/18/2014</a>

**CDPH WELLS WITHIN 1500 FEET OF THIS SITE**

NONE

**CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)**

APN	GW BASIN NAME	WATERSHED NAME
099B812200100	Livermore Valley (2-10)	South Bay - Alameda Creek (20430)

COUNTY	PUBLIC WATER SYSTEM(S)
Alameda	<ul style="list-style-type: none"> <li>CITY OF LIVERMORE - 101 W JACK LONDON BLVD, LIVERMORE, CA 94551-763</li> <li>ZONE 7 WATER AGENCY - 100 N CANYON PKWY, LIVERMORE, CA 94551-948</li> </ul>

**MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [HIDE](#)**

[VIEW ESI SUBMITTALS](#)

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
GP-1W	4/20/2010	ND	ND	ND	ND	ND	ND	ND
GP-2W	4/20/2010	ND	ND	ND	ND	ND	2.9 UG/L	ND
GP-3W	4/20/2010	ND	ND	ND	ND	ND	380 UG/L	ND
MW-1	4/16/2014	ND	ND	ND	ND	ND	ND	ND
MW-2	4/16/2014	ND	ND	ND	ND	ND	ND	ND
MW-3	4/16/2014	ND	ND	ND	ND	ND	1000 UG/L	17 UG/L
MW-4	4/16/2014	ND	ND	ND	ND	ND	66 UG/L	ND
MW-5	4/16/2014	ND	ND	ND	ND	ND	ND	ND

**MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - [HIDE](#)**

[VIEW ESI SUBMITTALS](#)

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
GP-1	4/20/2010	ND	ND	ND	ND	ND	ND	ND
GP-2	4/20/2010	ND	ND	ND	ND	ND	ND	ND

<u>FIELD PT NAME</u>	<u>DATE</u>	<u>TPHg</u>	<u>BENZENE</u>	<u>TOLUENE</u>	<u>ETHYL-BENZENE</u>	<u>XYLENES</u>	<u>MTBE</u>	<u>TBA</u>
GP-3	4/20/2010	ND	ND	ND	ND	ND	1.1 MG/KG	0.0076 MG/KG
MW-1	2/23/2011	ND	ND	ND	ND	ND	ND	ND
MW-2	2/24/2011	ND	ND	ND	ND	ND	ND	ND
MW-3	2/23/2011	ND	ND	ND	ND	ND	0.33 MG/KG	0.053 MG/KG
MW-4	9/7/2012	ND	ND	ND	ND	ND	0.016 MG/KG	ND
MW5	6/18/2013	ND	ND	ND	ND	ND	ND	ND
SP1	6/18/2013	ND	ND	ND	ND	ND	ND	ND
SP1(ABCD)	9/7/2012	ND	ND	ND	ND	ND	ND	ND

<u>MOST RECENT GEO_WELL DATA - HIDE</u>				<u>VIEW ESI SUBMITTALS</u>
<u>FIELD PT NAME</u>	<u>DATE</u>	<u>DEPTH TO WATER (FT)</u>	<u>SHEEN</u>	<u>DEPTH TO FREE PRODUCT (FT)</u>
MW-1	4/16/2014	8.31	N	
MW-2	4/16/2014	8.71	N	
MW-3	4/16/2014	9.43	N	
MW-4	4/16/2014	8.93	N	
MW-5	4/16/2014	9.02	N	

LOGGED IN AS JWICKHAM

[CONTACT GEOTRACKER HELP](#)



# ATTACHMENT 2

LTCP Checklist

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7-ELEVEN #32266 (T10000001067) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

1339 NORTH VASCO ROAD  
LIVERMORE, CA 94551  
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)

[PUBLIC WEBPAGE](#)

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

**CLEANUP OVERSIGHT AGENCIES**

ALAMEDA COUNTY LOP (LEAD) - CASE #: R00002999  
CASEWORKER: [Jerry Wickham](#) - SUPERVISOR: DILAN ROE  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: NA

THIS PROJECT WAS LAST MODIFIED BY [JERRY WICKHAM](#) ON 8/12/2014 11:37:17 AM - [HISTORY](#)

THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

**CLOSURE POLICY**    THIS VERSION IS FINAL AS OF 8/12/2014    CHECKLIST INITIATED ON 11/7/2012    [CLOSURE POLICY HISTORY](#)

**General Criteria - The site satisfies the policy general criteria -** [CLEAR SECTION ANSWERS](#)    YES

- a. Is the unauthorized release located within the service area of a public water system?  
     YES     NO
- b. The unauthorized release consists only of petroleum ([info](#)).     YES     NO
- c. The unauthorized ("primary") release from the UST system has been stopped.     YES     NO
- d. Free product has been removed to the maximum extent practicable ([info](#)).     FP Not Encountered     YES     NO
- e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)).     YES     NO
- f. Secondary source has been removed to the extent practicable ([info](#)).     YES     NO
- g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.     Not Required     YES     NO
- h. Does a nuisance exist, as defined by [Water Code section 13050](#).     YES     NO

**1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.** - [CLEAR SECTION ANSWERS](#)    YES

- EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [info](#))**     YES     NO
- Does the site meet any of the Groundwater specific criteria scenarios?     YES     NO
- 1.2 - The contaminant plume that exceeds water quality objectives is <250 feet in length. There is no free product. The nearest existing water supply well or surface water body is >1,000 feet from the defined plume boundary. The dissolved concentration of benzene is <3,000 µg/L. The dissolved concentration of MTBE is <1,000 µg/L.     YES     NO

**2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c -** [CLEAR SECTION ANSWERS](#)    YES

- EXEMPTION - Active Commercial Petroleum Fueling Facility**     YES     NO

**3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.** - [CLEAR SECTION ANSWERS](#)    YES

- EXEMPTION - The upper 10 feet of soil is free of petroleum contamination**     YES     NO
- Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?     YES     NO
- 3.1 - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table ([LINK](#)) for the specified depth below ground surface.     YES     NO

**Additional Information**

- This case should be kept OPEN in spite of meeting policy criteria.     YES     NO
- Has this LTCP Checklist been updated for FY 14/15?     YES     NO

[SPELL CHECK](#)

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[CONTACT GEOTRACKER HELP](#)

# ATTACHMENT 3



**ATTACHMENT 3  
LTCP GROUNDWATER SPECIFIC CRITERIA**

LTCP Groundwater Specific Scenario under which case was closed: Scenario 2

Site Data		LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Plume Length	160 feet	<100 feet	<250 feet	<250 feet	<1,000 feet
Free Product	No free product	No free product	No free product	Removed to maximum extent practicable	No free product
Plume Stable or Decreasing	Stable	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	>1,000 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	>1,000 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not Applicable	Not applicable	Not applicable	Yes	Not applicable

**GROUNDWATER CONCENTRATIONS**

Constituent	Historic Site Maximum (ppb)	Current Site Maximum (ppb)	LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Benzene	<0.5	<0.5	No criteria	3,000	No criteria	1,000
MTBE	5,600	1,000	No criteria	1,000	No criteria	1,000

Scenario 5: If the site does not meet scenarios 1 through 4, has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?

----

# ATTACHMENT 4

**ATTACHMENT 4  
LTCP VAPOR SPECIFIC CRITERIA**

LTCP Vapor Specific Scenario under which case was closed: Active fueling station exempt from vapor specific criteria

Active Fueling Station      Active as of 08/27/2014

Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	8 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm
Maximum Current Benzene Concentration in Groundwater	<0.5 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	----	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	----	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

**SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS**

Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum (µg/m <sup>3</sup> )	Current Maximum (µg/m <sup>3</sup> )	Residential	Commercial	Residential	Commercial
Benzene	----	----	<85	<280	<85,000	<280,000
Ethylbenzene	----	----	<1,100	<3,600	<1,100,000	<3,600,000
Naphthalene	----	----	<93	<310	<93,000	<310,000

If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected?

----

If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health?

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# ATTACHMENT 5

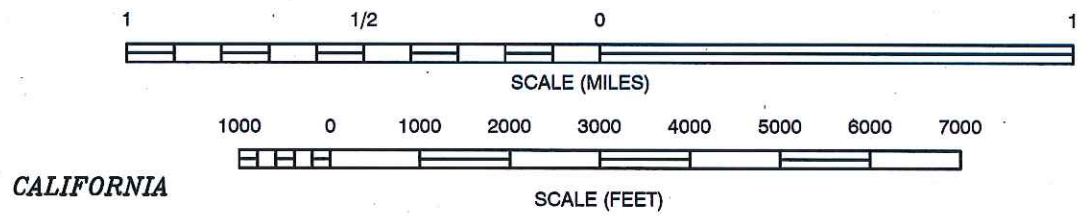
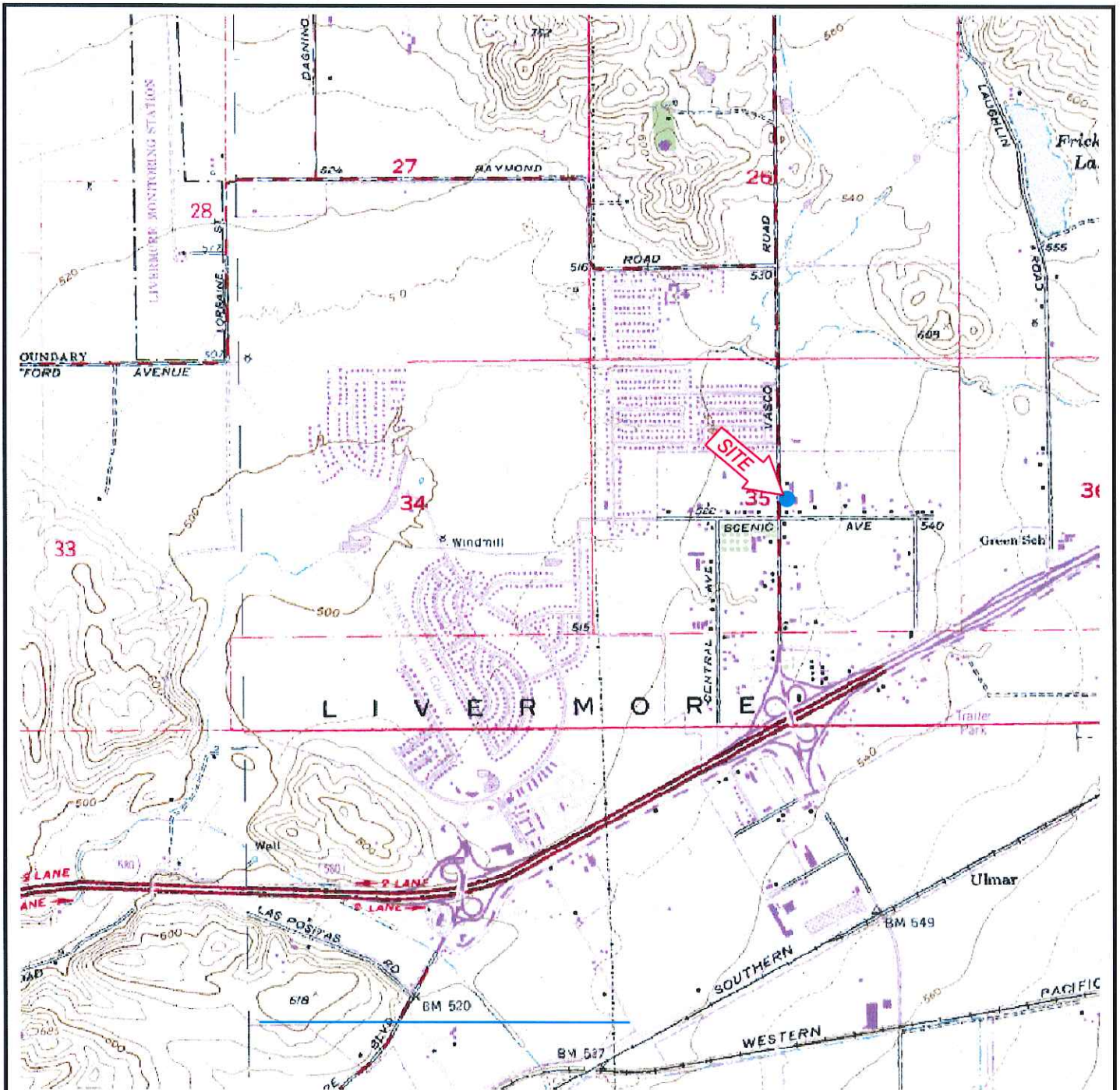
**ATTACHMENT 5  
LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA**

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below.


Are maximum concentrations less than those in Table 1 below?		Yes				
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 10 feet bgs (ppm)
Site Maximum	Benzene	0.21	0.21	0.21	0.21	0.21
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	0.26	0.26	0.26	0.26	0.26
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment?				----		
If maximum concentrations are greater than those in Table 1, has a determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health?				----		

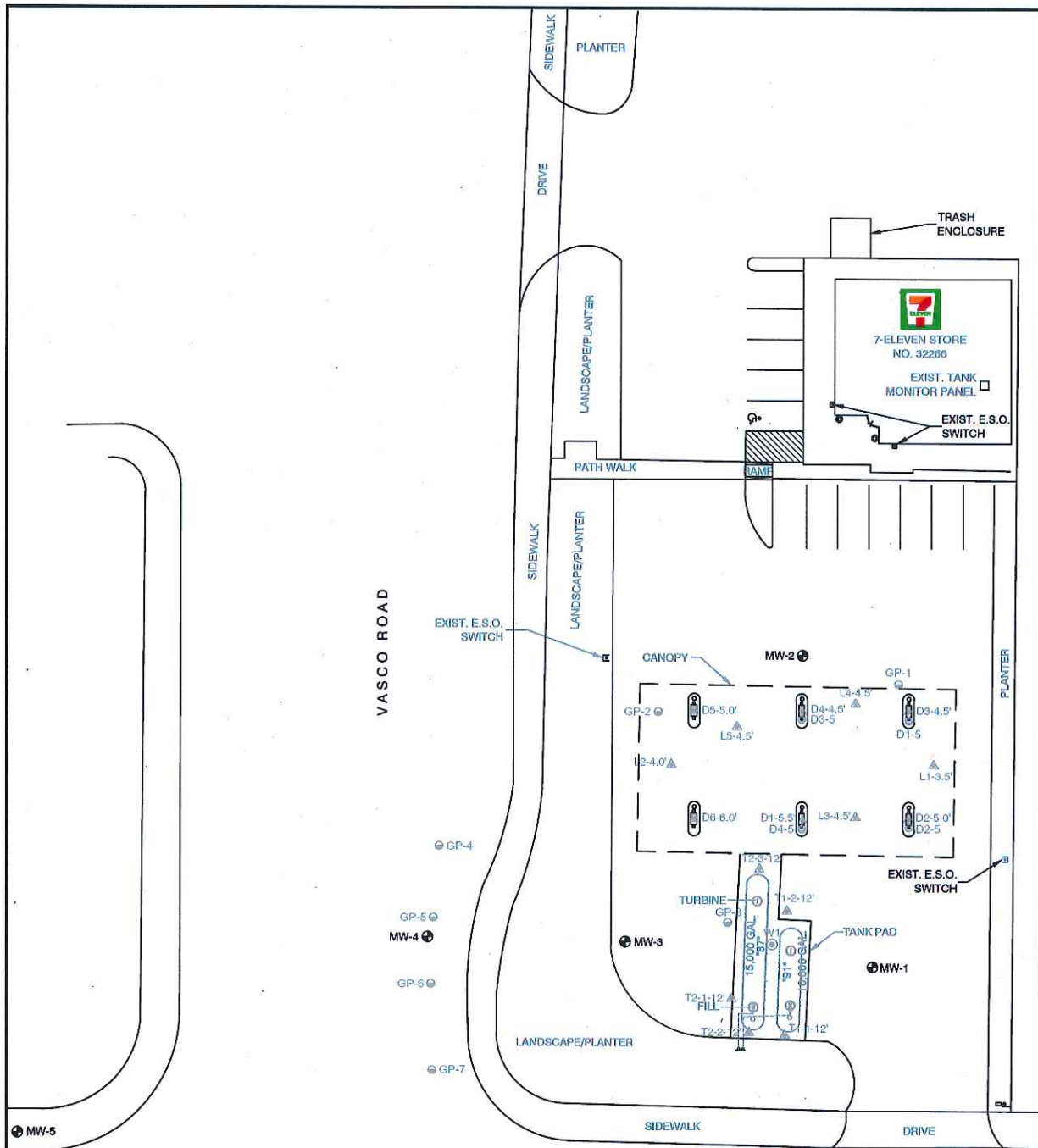
# ATTACHMENT 6



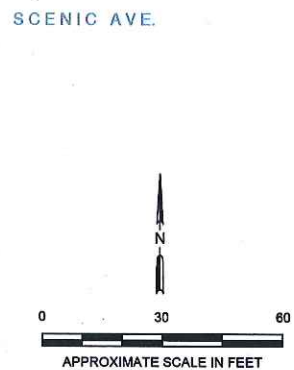


REFERENCE: USGS 7.5 MINUTE QUADRANGLE, LIVERMORE, CALIFORNIA

	FOR:  STORE NO. 32266 1339 NORTH VASCO ROAD LIVERMORE, CALIFORNIA	<b>SITE LOCATION MAP</b>		FIGURE: <h1 style="text-align: center;">1</h1>
	JOB NUMBER: 185750084	DRAWN BY: STA	CHECKED BY: DL	APPROVED BY: ASM



- LEGEND:**
- MW-1 ⊕ GROUNDWATER MONITORING WELL
  - W1 ⊙ UST EXCAVATION WATER SAMPLE LOCATION
  - GP-1 ⊙ GEOPROBE SAMPLE LOCATION
  - L5-4.5' ▲ 2005 SOIL SAMPLE LOCATION
  - D1-5 ⊙ 2008 SOIL SAMPLE LOCATION

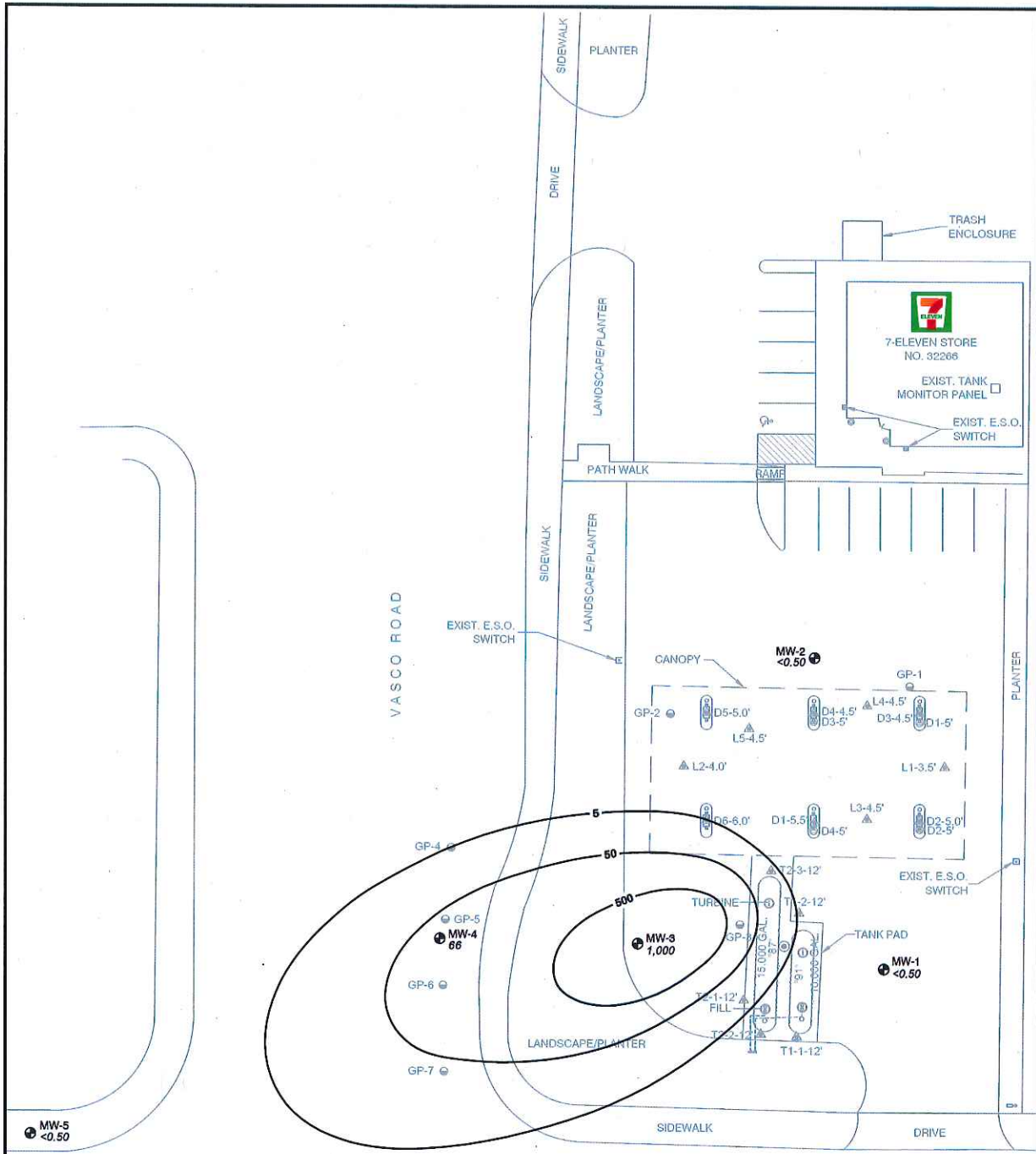


REFERENCE: THIS FIGURE IS BASED ON AN AERIAL SURVEY PROVIDED BY STANTEC CONSULTING SURVEYING GROUP

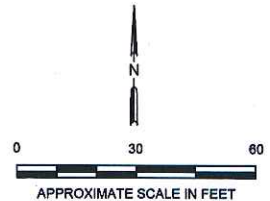
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	FOR:  STORE NO. 32266 1339 NORTH VASCO ROAD LIVERMORE, CALIFORNIA	<b>SITE PLAN</b>		FIGURE: <b>2</b>
	JOB NUMBER: 185750084 DRAWN BY: STA	CHECKED BY: ASM	APPROVED BY: ASM	DATE: 06/10/14





- LEGEND:**
- MW-1 ● GROUNDWATER MONITORING WELL
  - W1 ⊙ UST EXCAVATION WATER SAMPLE LOCATION
  - GP-1 ⊙ GEOPROBE SAMPLE LOCATION
  - L5-4.5' ▲ 2008 SOIL SAMPLE LOCATION
  - D1-5' ⊙ 2005 SOIL SAMPLE LOCATION
  - 500 — MIBE CONCENTRATION CONTOUR
  - 1,000 — MIBE CONCENTRATION
  - MtBE METHYL TERTIARY BUTYL ETHER (µg/L)
  - µg/L MICROGRAMS PER LITER



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	FOR:	 STORE NO. 32266 1339 NORTH VASCO ROAD LIVERMORE, CALIFORNIA	MtBE ISOCONCENTRATION MAP APRIL 16, 2014	FIGURE: <b>3</b>
	JOB NUMBER: 185760084	DRAWN BY: STA	CHECKED BY: ASM	APPROVED BY: ASM
DATE: 06/10/14				

# ATTACHMENT 7



**Table 1**  
**Historical Soil Sample Analytical Results**

7-Eleven Store #32266  
1339 North Vasco Road  
Livermore, California

Sample I.D.	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)	TPHg (mg/kg)	MiBE (mg/kg)	DIPE (mg/kg)	EiBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	EtOH (mg/kg)	Total Lead (mg/kg)	Notes
<b>Dispenser Samples</b>																	
D1-5.5	01/28/05	5.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>6.71</b>	
D2-5.0	01/28/05	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.039</b>	<0.0050	<0.0050	<0.0050	<b>0.016</b>	<0.0050	<0.0050	<b>0.010</b>	<b>6.57</b>	
D3-4.5	01/28/05	4.5	<b>0.026</b>	<b>0.086</b>	<b>0.010</b>	<b>0.055</b>	<1.0	<b>0.14</b>	<0.0050	<0.0050	<0.0050	<b>0.0064</b>	<0.0050	<0.0050	<b>0.27</b>	<b>28.4</b>	J
D4-4.5	01/28/05	4.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.012</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>6.01</b>	
D5-5.0	01/28/05	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>5.53</b>	
D6-6.0	01/28/05	6.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.018</b>	<0.0050	<0.0050	<0.0050	<b>0.049</b>	<0.0050	<0.0050	<0.010	<b>4.98</b>	
D1-5.0	12/04/08	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.024</b>	<0.0050	<0.0050	<0.0050	<b>0.0076</b>	--	--	--	--	a, c
D2-5.0	12/04/08	5.0	<b>0.21</b>	<b>0.59</b>	<b>0.26</b>	<b>1.4</b>	<b>12</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	b, c
D3-5.0	12/04/08	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	a, c
D4-5.0	12/04/08	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	b, c
<b>Line Samples</b>																	
L1-3.5	01/28/05	3.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>5.51</b>	
L2-4.0	01/28/05	4.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>11.2</b>	
L3-4.5	01/28/05	4.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>7.14</b>	
L4-4.5	02/09/05	4.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>6.61</b>	
L5-4.5	02/09/05	4.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>6.49</b>	
<b>UST Excavation Samples</b>																	
T1-1-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.034</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>5.82</b>	
T1-2-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>2.4</b>	<0.0050	<0.0050	<b>0.0068</b>	<b>2.6</b>	<0.0050	<0.0050	<0.025	<b>6.49</b>	
T2-1-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.016</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>6.65</b>	
T2-2-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.010</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>7.50</b>	
T2-3-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.18</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>5.66</b>	
<b>Soil Boring Soil Samples</b>																	
GP-1-5	04/20/10	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-1-10	04/20/10	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-1-15	04/20/10	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-2-10	04/20/10	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-2-15	04/20/10	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-3-5	04/20/10	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-3-10	04/20/10	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.023</b>	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
GP-3-15	04/20/10	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>1.1</b>	<0.0050	<0.0050	<0.0050	<b>0.0076</b>	--	--	--	--	J



**Table 1**  
**Historical Soil Sample Analytical Results**

7-Eleven Store #32266  
1339 North Vasco Road  
Livermore, California

Sample I.D.	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)	TPHg (mg/kg)	MIBE (mg/kg)	DIPE (mg/kg)	EiBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	EtOH (mg/kg)	Total Lead (mg/kg)	Notes
GP-4-5	07/10/12	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-4-10	07/10/12	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-4-15	07/10/12	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-4-20	07/10/12	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-4-25	07/10/12	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-5-5	07/10/12	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-5-10	07/10/12	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-5-15	07/10/12	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.024</b>	--	--	--	--	--	--	--	--	
GP-5-20	07/10/12	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.056</b>	--	--	--	--	--	--	--	--	
GP-5-25	07/10/12	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.024</b>	--	--	--	--	--	--	--	--	
GP-6-5	07/11/12	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-6-10	07/11/12	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-6-15	07/11/12	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-6-20	07/11/12	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-6-25	07/11/12	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-7-5	07/12/12	5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-7-10	07/12/12	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-7-15	07/12/12	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
GP-7-20	07/12/12	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
<b>Monitoring Wells</b>																	
MW-1-10	02/23/11	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-1-20	02/23/11	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-2-10	02/24/11	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-2-20	02/24/11	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	
MW-3-10	02/23/11	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.33</b>	<0.0050	<0.0050	<0.0050	<b>0.0082</b>	--	--	--	--	J
MW-3-20	02/23/11	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.22</b>	<0.0050	<0.0050	<0.0050	<b>0.053</b>	--	--	--	--	J
MW-3-25	02/23/11	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.084</b>	<0.0050	<0.0050	<0.0050	<b>0.010</b>	--	--	--	--	J
MW-4@10'	09/07/12	10	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
MW-4@15'	09/07/12	15	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.010</b>	--	--	--	--	--	--	--	--	
MW-4@19.5'	09/07/12	19.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<b>0.016</b>	--	--	--	--	--	--	--	--	
MW-5-5	09/12/12	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	g
MW5-5	06/18/13	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
MW5-8	06/18/13	8.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
MW5-14	06/18/13	14.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	
MW5-18.5	06/18/13	18.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	--	



**Table 1**  
**Historical Soil Sample Analytical Results**

7-Eleven Store #32266  
1339 North Vasco Road  
Livermore, California

Sample I.D.	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)	TPHg (mg/kg)	MiBE (mg/kg)	DIPE (mg/kg)	EtBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	EtOH (mg/kg)	Total Lead (mg/kg)	Notes
<b>Stockpile Soil Samples</b>																	
SP1 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.75	
SP1 (EFGH)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	2.66	
SP1 (IJKL)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.30	
SP1 (MNOP)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	4.40	
SP2 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.80	
SP2 (EFGH)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.01	
SP2 (IJKL)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.24	
SP2 (MNOP)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	5.15	
SP2 (QRST)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	2.75	
SP2 (UVWX)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.17	
SP3 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	3.14	
SP1 (ABCD)	12/04/08	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	4.4	b,c
SP1 (ABCD)	04/20/10	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	6.8	e
SP1 (ABCD)	02/24/11	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	7.6	
SP1 (ABCD)	09/07/12	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	6.1	f
SP1 (A,B,C,D)	06/18/13	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	6.5	

**Explanation:**

TPHg, BTEX, MiBE, DIPE, EtBE, TAME, TBA, EDB, EDC, EtOH by 8260

ft bgs = Feet Below Ground Surface

mg/kg = milligrams per kilogram or parts-per-million

< = Not detected above laboratory reporting limit

UST = Underground Storage Tank

TPHg = Total petroleum hydrocarbons as gasoline

MiBE = Methyl tertiary butyl ether

DIPE = Diisopropyl ether

EtBE = Ethyl tert-butyl ether

TAME = Tertiary-aryl methyl ether

-- = not analyzed

TBA = Tert-butyl alcohol

EDB = 1,2 Dibromoethane

EDC = 1,2 Dichloroethane

EtOH = Ethanol

Total Lead analysis by 6010B

**Notes:**

a = Matrix Spike/Matrix Spike Duplicate results for the analytes tert-butanol and toluene were outside of control limits. This may indicate a bias for the sample that was spiked.

Since the LCS recoveries were within control limits, no data are flagged.

b = Matrix Spike/Matrix Spike Duplicate results for the analyte MiBE were affected by the analyte concentrations already present in the un-spiked sample.

c = composite soil profile samples

d = Note that dispenser sample names/designations differ in location from dispenser samples collected in 2005.

J = TBA results may be biased slightly high and is flagged with a 'J'. A fraction of MiBE (up to 5%) converts to TBA during the analysis of soil samples.

This conversion effect is considered to be mathematically significant in samples that contain MiBE/TBA in ratios of over 3:1.

e = Matrix Spike/Matrix Spike Duplicate results for the analytes Ethylbenzene, P + M Xylene, O-Xylene, and Toluene were outside of control limits. This may indicate a bias for the sample that was spiked.

Since the LCS recoveries were within control limits, no data are flagged.

f = Matrix Spike/Matrix Spike Duplicate results for the analyte ethylbenzene were affected by the analyte concentrations already present in the un-spiked sample.

g = proposed well not installed at that time

**Table 2**  
**Historical Water and/or Groundwater Sample Analytical Results**  
 7-Eleven Store #32266  
 1339 North Vasco Road  
 Livermore, California

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	TPHg (µg/L)	MiBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EiBE (µg/L)	TAME (µg/L)	Methanol (ug/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
<b>UST Excavation Groundwater Sample</b>																				
W1	01/28/05	25	290	62	520	3,400	180	15	<1.5	<1.5	<1.5	<1.5	<1.5	2,600	2,600		--	--	--	--
<b>Baker Tank Samples</b>																				
BT-1	02/04/05	<0.50	<0.50	<0.50	0.70	<50	340	--	--	--	--	--	--	--	--		--	--	--	--
BT-2	02/04/05	<0.90	<0.90	<0.90	<0.90	<90	400	--	--	--	--	--	--	--	--		--	--	--	--
<b>Grab Groundwater Samples</b>																				
GP-1W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		--	--	--	--
GP-2W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	2.9	<5.0	<0.50	<0.50	<0.50	--	--	--	--		--	--	--	--
GP-3W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	380	<5.0	<0.50	<0.50	0.71	--	--	--	--		--	--	--	--
GP-4W	07/10/12	<0.50	<0.50	<0.50	<0.50	75	13	--	--	--	--	--	--	--	--	c	--	--	--	--
GP-5W	07/11/12	<0.50	<0.50	<0.50	<0.50	95	350	--	--	--	--	--	--	--	--		--	--	--	--
GP-7W	07/12/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	--	--	--	--	--	--	--	--		--	--	--	--
<b>Monitoring Well Samples</b>																				
<b>MW-1</b>																				
530.22	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		2.04	8.07	0.00	522.15
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--	a	0.35	7.88	0.00	522.34
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--	a	0.71	8.30	0.00	521.92
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.5	8.27	0.00	521.95
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--	a	0.8	8.51	0.00	521.71
	04/05/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.44	8.22	0.00	522.00
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.28	8.36	0.00	521.86
	09/21/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	8.40	0.00	521.82
	10/25/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.73	8.46	0.00	521.76
	01/16/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.92	8.34	0.00	521.88
	04/11/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		1.08	8.28	0.00	521.94
	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	<0.50	<0.50		0.76	8.46	0.00	521.76
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.26	8.36	0.00	521.86
	01/30/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.41	8.46	0.00	521.76
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.19	8.31	0.00	521.91



**Table 2**  
**Historical Water and/or Groundwater Sample Analytical Results**

7-Eleven Store #32266  
 1339 North Vasco Road  
 Livermore, California

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	TPHg (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	Methanol (ug/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)	
MW-2 530.55	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		1.63	8.31	0.00	522.24	
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.46	8.37	0.00	522.18	
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--	a	0.60	8.82	0.00	521.73	
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		1.2	8.74	0.00	521.81	
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--	a	0.7	8.96	0.00	521.59	
	04/05/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	--	--	--	--		0.51	8.88	0.00	521.67
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	--	--	--	--		0.30	9.04	0.00	521.51
	09/21/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	8.83	0.00	521.72
	10/25/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	--	--	--	--		0.76	8.74	0.00	521.81
	01/16/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.78	8.71	0.00	521.84	
	04/11/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	--	--		1.04	8.78	0.00	521.77	
	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	<0.50	<0.50		0.94	8.86	0.00	521.69	
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.07	8.78	0.00	521.77	
	01/30/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.35	8.89	0.00	521.66	
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.28	8.71	0.00	521.84	
MW-3 530.74	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<b>5,600</b>	<b>170</b>	<0.50	<0.50	<b>10</b>	--	--	--	--		2.54	9.11	0.00	521.63	
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	<b>3,200</b>	<b>180</b>	<0.50	<0.50	<b>5.4</b>	--	--	--	--		0.32	9.15	0.00	521.59	
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	<b>1,700</b>	<b>78</b>	<0.50	<0.50	<b>2.8</b>	--	--	--	--		0.42	9.36	0.00	521.38	
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	<b>1,900</b>	<b>85</b>	<0.50	<0.50	<b>2.9</b>	--	--	--	--	b	0.6	9.37	0.00	521.37	
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	<b>1,100</b>	<b>58</b>	<0.50	<0.50	<b>2.2</b>	--	--	--	--		0.5	9.57	0.00	521.17	
	04/05/12	<2.5	<2.5	<2.5	<2.5	<250	<b>2,000</b>	<b>57</b>	<2.5	<2.5	<b>3.3</b>	--	--	--	--	b	0.47	9.44	0.00	521.30	
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	<b>2,000</b>	<b>50</b>	<0.50	<0.50	<b>3.9</b>	--	--	--	--	b	0.36	9.65	0.00	521.09	
	09/21/12	<1.5	<1.5	<1.5	<1.5	<150	<b>760</b>	<b>32</b>	<1.5	<1.5	<b>1.5</b>	--	--	--	--	b	--	9.55	0.00	521.19	
	10/25/12	<1.5	<1.5	<1.5	<1.5	<150	<b>670</b>	<b>25</b>	<1.5	<1.5	<1.5	--	--	--	--	b	0.75	9.50	0.00	521.24	
	01/16/13	<1.5	<1.5	<1.5	<1.5	<150	<b>1,200</b>	<b>30</b>	<1.5	<1.5	<b>2.4</b>	--	--	--	--	b	0.73	9.23	0.00	521.51	
	04/11/13	<2.5	<2.5	<2.5	<2.5	<250	<b>1,700</b>	<b>27</b>	<2.5	<2.5	<2.5	--	--	--	--	b	0.81	9.44	0.00	521.30	
	07/18/13	<1.5	<1.5	<1.5	<1.5	<150	<b>880</b>	<b>15</b>	<1.5	<1.5	<b>1.7</b>	--	<15	<1.5	<1.5	b	0.82	9.61	0.00	521.13	
	10/30/13	<0.90	<0.90	<0.90	<0.90	<90	<b>410</b>	<b>12</b>	<0.90	<0.90	<0.90	--	<9.0	--	--	b	1.05	9.47	0.00	521.27	
	01/30/14	<0.90	<0.90	<0.90	<0.90	<90	<b>450</b>	<b>15</b>	<0.90	<0.90	<0.90	--	<9.0	--	--	b	1.17	9.42	0.00	521.32	
	04/16/14	<0.90	<0.90	<0.90	<0.90	<90	<b>1,000</b>	<b>17</b>	<0.90	<0.90	<b>1.7</b>	--	<9.0	--	--		0.97	9.43	0.00	521.31	

**Table 2**  
**Historical Water and/or Groundwater Sample Analytical Results**  
 7-Eleven Store #32266  
 1339 North Vasco Road  
 Livermore, California

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	TPHg (µg/L)	MiBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EiBE (µg/L)	TAME (µg/L)	Methanol (ug/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-4 529.93	09/21/12	<0.50	<0.50	<0.50	<0.50	<50	400	<5.0	<0.50	<0.50	0.69	--	--	--	--		--	9.01	0.00	520.92
	10/25/12	<0.50	<0.50	<0.50	<0.50	<50	270	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.79	9.01	0.00	520.92
	01/16/13	<0.50	<0.50	<0.50	<0.50	<50	47	<5.0	<0.50	<0.50	<0.50	--	--	--	--		0.87	8.86	0.00	521.07
	04/11/13	<0.50	<0.50	<0.50	<0.50	<50	290	<5.0	<0.50	<0.50	<0.50	--	--	--	--		1.07	8.80	0.00	521.13
	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	150	<5.0	<0.50	<0.50	<0.50	--	<5.0	<0.50	<0.50		1.20	9.02	0.00	520.91
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	58	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		0.98	8.99	0.00	520.94
	01/30/14	<0.50	<0.50	<0.50	<0.50	<50	49	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.37	9.05	0.00	520.88
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	66	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.03	8.93	0.00	521.00
MW-5 529.27	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	<0.50	<0.50		1.94	9.13	0.00	520.14
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		0.94	9.10	0.00	520.17
	01/30/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.32	9.17	0.00	520.10
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	--	<5.0	--	--		1.48	9.02	0.00	520.25

**Explanation:**  
 BTEX, TPHg, MiBE, DIPE, EiBE, TAME, and TBA by 8260B  
 TPHg = Total petroleum hydrocarbons as gasoline  
 MiBE = Methyl tertiary butyl ether  
 DIPE = Diisopropyl ether  
 EiBE = Ethyl tert-butyl ether  
 TAME = Tertiary-amyl methyl ether  
 TBA = Tert-butyl alcohol  
 EDB = 1,2 Dibromoethane  
 1,2-DCA = 1,2 Dichloroethane  
 EIOH = Ethanol  
 TOC = Top of casing elevation in feet above mean sea level  
 UST = Underground Storage Tank  
 ug/L = micrograms per liter or parts-per-billion  
 mg/L = milligrams per liter  
 <= Not detected above laboratory reporting limit  
 -- = Not sampled/not measured

**Notes**  
 a = Matrix Spike/Matrix Spike Duplicate for the analyte MiBE were affected by the analyte concentrations already present in the un-spike sample.  
 b = Tert-Butanol (Tert-butyl alcohol) results may be biased slightly high. A fraction of MiBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples that contain MiBE/Tert-Butanol in ratios of over 20:1.  
 c = Analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.