



**Stantec**

**Stantec Consulting Services Inc.**  
3017 Kilgore Road Suite 100  
Rancho Cordova CA 95670  
Tel: (916) 861-0400  
Fax: (916) 861-0430

March 05, 2012

Mr. Jerry Wickham  
Alameda County Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RE: **Revised Work Plan for Additional Site Assessment**  
7-Eleven Store #32266  
1339 North Vasco Road  
Livermore, CA 94551  
Stantec Project #:211502037.230.0104

Dear Mr. Wickham:

Stantec Consulting Services Inc. has been designated as Limited Agent of 7-Eleven, Inc. (7-Eleven) for the purposes of executing and delivering instruments and documents on behalf of 7-Eleven (see attached Limited Authorization form).

We declare, under penalty of perjury, that the information and/or recommendations contained in the attached assessment report are true and correct to best of our knowledge.

Should you have any questions regarding this site, please contact the undersigned at (916) 861-0400.

Sincerely,  
**Stantec Consulting Services Inc.**

Damon Brown  
Senior Geologic Consultant  
Project Manager

Ed Simonis, PG  
Senior Geologist



**RECEIVED**

*10:30 am, Mar 07, 2012*

Alameda County  
Environmental Health

**LIMITED AUTHORIZATION**

KNOW ALL MEN BY THESE PRESENTS:

That 7-ELEVEN, INC. ("7-Eleven"), a Texas corporation, acting by and through Doug Rosencrans, Vice President, does hereby nominate, constitute and appoint STANTEC CONSULTING SERVICES INC. a Delaware corporation formerly known as Stantec Consulting Corporation, as Limited Agent ("Agent") of 7-Eleven, for purposes of executing and delivering instruments and documents as more particularly described below, and does hereby grant, delegate and invest said Agent with power and authority to execute and deliver for, in the name of, and on behalf of 7-Eleven, and in connection with that certain Amended and Restated Agreement by and between 7-Eleven and Agent dated as of January 1, 2010 (as amended, the "Agreement"), the instruments and documents listed in Attachment I hereto.

Agent may exercise the power and authority herein granted, delegated and invested, in any particular and appropriate transaction or matter, as an agent of 7-Eleven. Any instruments and documents executed and delivered by Agent under this Limited Authorization shall be acts of 7-Eleven and may be relied upon by third parties dealing with 7-Eleven, such acts being hereby ratified and confirmed by virtue hereof. Agent shall deliver all instruments and documents executed and delivered by Agent under this Limited Authorization to 7-Eleven promptly following such execution and delivery.

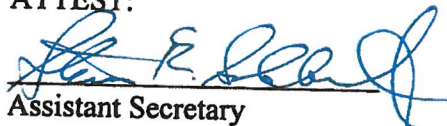
Any and all acts of Agent hereunder shall comply with all applicable federal, state and local laws, regulations, rules and ordinances and with all applicable orders of any courts of competent jurisdiction.

This Limited Authorization shall expire upon the expiration or earlier termination of the Agreement, except as otherwise provided therein, or may be terminated at any time for any reason by 7-Eleven.

APPROVED AND EXECUTED this 10th day of January, 2012, to be effective as of the date hereof.

7-ELEVEN, INC.

ATTEST:

  
Assistant Secretary

By:   
Name: Doug Rosencrans  
Title: Vice President

STATE OF TEXAS           §  
  §  
COUNTY OF DALLAS       §

BEFORE ME, the undersigned, a Notary Public in and for the County and State aforesaid, on this day personally appeared Doug Rosencrans and Steven R. Seldowitz, Vice President and Assistant Secretary, respectively, of 7-Eleven, Inc., known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that the same was the act of the said corporation, a Texas corporation, and that they executed the same as the act of such corporation for the purposes and consideration therein expressed and in the capacities therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 10th day of January, 2012.

Karen Pennell  
NOTARY PUBLIC

My Commission Expires:

5-1-2013



## ATTACHMENT I

Such permits, reports, applications and other documentation issued by any federal, state or local governmental authority and such other standard form documentation provided by 7-Eleven or third parties to be completed in connection with Agent's performance of environmental consulting services pursuant to the Agreement, including, without limitation, the following:

- a. Waste Manifests;
- b. Waste Characterization Forms;
- c. Bills of Lading;
- d. Waste Disposal Agreements;
- e. Registration and Notification Forms for underground storage tanks;
- f. Incident Reports;
- g. Discharge Notification Forms;
- h. Tank Closure Reports;
- i. Permit Applications, Notices and other documents relating to the investigation, monitoring or remediation work performed under the Agreement;
- j. Reports to state environmental agencies regarding investigation, monitoring or remediation work performed under the Agreement; and
- k. Applications to any state underground storage tank insurance or reimbursement fund;

Provided, however, that in each case, the foregoing authorization shall not extend to any permits, reports, applications or other documentation that contain: (i) any language, the effect of which is to require 7-Eleven to indemnify, defend and/or hold harmless any third party for any act or omission of any kind; or (ii) any statement of any kind, including, without limitation, any representation or warranty, which Agent does not personally know to be true and correct, including, without limitation, any representation concerning the legal existence or financial condition of 7-Eleven.



**Stantec**

**Stantec Consulting Services Inc.**  
3017 Kilgore Road Suite 100  
Rancho Cordova CA 95670  
Tel: (916) 861-0400  
Fax: (916) 861-0430

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March 5, 2012

Mr. Jerry Wickham  
Alameda County  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**RE: Revised Work Plan for Additional Site Assessment**  
7-Eleven Store #32266  
1339 North Vasco Road  
Livermore, CA 94551  
Stantec Project #: 211502037.230.0104

Dear Mr. Wickham:

This revised work plan was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of 7-Eleven Inc. (7-Eleven) for the additional subsurface assessment at 7-Eleven store #32266, located at 1339 Vasco Road in Livermore, California (Figures 1 and 2). This revised work plan was prepared in response to the Alameda County Environmental Health Services (ACEHS) letter dated November 21, 2011 (Attachment A).

#### **SITE BACKGROUND**

In January 2005, two single-walled steel, fiberglass-jacketed underground storage tanks (USTs) (one 10,000-gallon and one 15,000-gallon) were replaced with new double-walled fiberglass USTs. A total of 26 soil samples were collected during the UST replacement activities as follows:

- Five soil samples from the UST excavation,
- Six soil samples from the beneath the product dispensers,
- Five soil samples from the product line trenches,
- Eleven samples (44 samples combined at laboratory for eleven 4-part composite samples) from the stockpiled UST backfill material.

Total petroleum hydrocarbons as gasoline (TPHg) were not detected above laboratory reporting limits in any of the soil samples collected during the UST replacement activities (Table 1). The maximum concentrations of tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MtBE) detected were 2.4 milligrams per kilogram (mg/kg) and 2.6 mg/kg, respectively, in UST excavation sample T1-2-12. Total lead was detected in each of the samples at concentrations ranging from 4.98 mg/kg to 28.4 mg/kg.

In addition, a total of three water samples were collected during the 2005 UST replacement activities as follows:

- One grab sample (W1) from water collected/pooled within the excavated UST basin,
- Two samples (BT-1 & BT-2) collected from 20,000-gallon Baker Tanks storing pumped UST excavation water.

MtBE was detected at 180 micrograms per liter (ug/L) and benzene was reported at 25 ug/L in UST excavation water sample W1 (Table 2). TPHg was detected at 3,400 ug/L. No TPHg was detected in either Baker Tank sample (BT-1 or BT-2). Total xylenes were reported in sample BT-1 at 0.70 ug/L. MtBE was detected in both samples at concentrations of 340 ug/L (BT-1) to 400 ug/L (BT-2). Based on the results of the water samples collected, an UST Unauthorized Release report was completed and submitted to the Livermore-Pleasanton Fire Department (LPPFD) and the California Regional Water Quality Control Board (CRWQCB).

On December 4, 2008, Stantec's field scientist collected one soil sample in native soil from beneath four of the six dispensers (D1-5.0, D2-5.0, D3-5.0 and D4-5.0) during fuel system upgrade activities at the site. In addition, Stantec collected four soil samples from stockpiled excavated backfill material. The four stockpile samples were combined at the laboratory for one four-part composite sample SP1(ABCD). TPHg, benzene, toluene, ethyl-benzene and total xylenes (BTEX) were not detected above laboratory reporting limits in the dispenser soil samples collected, with the exception of dispenser sample D2-5. Soil sample D2-5 contained 0.21 mg/kg benzene, 0.59 mg/kg toluene, 0.26 mg/kg ethyl-benzene, 1.4 mg/kg xylenes, and 12 mg/kg TPHg. MtBE and TBA were detected exclusively in soil sample D1-5.5, at concentrations of 0.024 mg/kg and 0.0076 mg/kg, respectively. Di-isopropyl ether (DIPE), ethyl tertiary butyl ether (EtBE), and tertiary amyl methyl ether (TAME) were not detected above laboratory reporting limits in any dispenser soil samples collected. BTEX, TPHg, MtBE, TBA, DIPE, ETBE, and TAME were not detected at concentrations above laboratory reporting limits in the stockpiled soil sample collected during this investigation. Total lead was detected at concentration of 4.4 mg/kg.

In a letter dated November 20, 2009, the ACEHS requested the submittal of a work plan to investigate potential soil and groundwater contamination at the site based on ACEHS review of the historical site data. Stantec submitted a *Work Plan for Additional Soil and Groundwater Assessment* to the ACEHS on February 1, 2010. The work plan was subsequently approved by the ACEHS in a letter dated March 22, 2010.

On April 20, 2010, Stantec supervised WDC Exploration and Wells (WDC) of Richmond, California, during the advancement of three direct-push soil borings (GP-1 through GP-3) at the site. Eight soil samples were collected from soil borings GP-1 through GP-3 for laboratory analysis. MtBE was reported in soil boring GP-3 at 10 and 15 feet below ground surface (bgs) at concentrations of 0.023 mg/kg and 1.1 mg/kg, respectively. TBA was exclusively detected in soil boring GP-3 at 15 feet bgs at a concentration of 0.0076 mg/kg. TPHg, BTEX, DIPE, EtBE, and TAME were not detected at concentrations above the laboratory reporting limits in soil samples collected from soil borings GP-1 through GP-3. In addition, grab-groundwater samples were collected from each boring. Grab-groundwater samples GP-2W and GP-3W reported MtBE concentrations of 2.9 µg/L and 380 µg/L, respectively. TAME was exclusively detected in grab-groundwater sample GP-3W at a concentration of 0.71 µg/L. TPHg, BTEX, DIPE, EtBE

and TBA were not detected at concentrations above the laboratory reporting limits in grab-groundwater samples GP-1 through GP-3. On May 17, 2010, Stantec submitted the results of the assessment activities in a report titled *Additional Soil and Groundwater Assessment* to the ACEHS.

In a letter dated July 14, 2010, the ACEHS requested the submittal of a work plan to further assess the extent of soil and groundwater contamination, the hydraulic gradient, and to identify potential receptors within a radius of 2,000 feet of the subject site. On September 29, 2010, Stantec submitted a *Work Plan for Additional Site Assessment and Results of Detailed Well Survey* to the ACEHS and was approved in a letter dated October 25, 2010.

On February 23 and 24, 2011, Stantec supervised WDC during the installation of three groundwater monitoring wells (MW-1, MW-2, and MW-3) at the site. Seven soil samples were collected for laboratory analysis. MtBE and TBA were reported solely in the soil samples collected from MW-3, with concentrations ranging from 0.0082 mg/kg to 0.33 mg/kg. The analytes BTEX, TPHg, DIPE, EtBE, and TAME were not detected at concentrations above the laboratory reporting limits.

Historical soil and groundwater sample analytical results are summarized in Tables 1 and 2, respectively. Soil borings and well construction details are summarized in Table 3.

### **WORKPLAN – PHASE 1 SOIL BORINGS**

Stantec proposes to advance four soil borings (GP-4 through GP-7) at the locations shown in Figure 2 to collect soil and groundwater samples. Data obtained from the advancement of the proposed soil borings will be used to investigate the lateral and vertical extent of MtBE absorbed to soil and dissolved in groundwater.

Based on the utility vaults present along Vasco Road and Scenic Avenue, it appears that there may be underground utilities in the area of the proposed soil borings. If utilities are present such that it is not feasible to advance the borings in Vasco Road, the soil borings will be moved approximately 25 to 30 feet east to the onsite landscaping. The first five feet of each boring will be advanced via hand auger. Below five feet bgs, the borings will be advanced using a truck-mounted rig equipped with a 2-inch diameter Macro Core<sup>®</sup> sampling device to a total depth of approximately 25 feet bgs. Soil samples will be continuously cored starting at 5 feet bgs and soil samples will be collected as outlined in Table 4. Down-hole drilling equipment will be cleaned before advancing each borehole, and sampling equipment will be cleaned between each sampling interval. Each soil sample will be screened for hydrocarbon vapors using a portable photoionization detector (PID). Soils encountered during drilling will be logged using the Unified Soil Classification System (USCS) by a Stantec field geologist, working under the supervision of a California Professional geologist.

Soil samples will be collected using a 2-inch by four-foot long core barrel containing a 1.75-inch diameter clear acrylic sample tube. Samples retained for analysis will be sealed with Teflon<sup>®</sup> sheeting and plastic caps, labeled and placed on ice in an insulated container for delivery to Kiff Analytical (Kiff) located in Davis, California under chain-of-custody (COC) documentation. Soil

samples will be analyzed for TPHg, BTEX and MtBE by Environmental Protection Agency (EPA) Method 8260B.

Grab groundwater samples will be collected from each soil boring. Prior to sampling, a water level meter will be used to confirm that the drive rods do not contain water. The sampler will be driven to approximately five feet below groundwater and retracted three feet to expose a disposable schedule 20 polyvinyl chloride (PVC) screen and allow groundwater to enter the HydroPunch® sampler. The water sample will be collected by lowering a ¾"-diameter stainless steel or disposable bailer through the drive rods to groundwater. The groundwater will be bailed from the drive rods, decanted from the bailer into 40-ml VOA vials, and capped. Each VOA vial will be checked to ensure no bubbles are present, labeled, placed on ice, and transported to Kiff under COC documentation. The grab groundwater samples will be analyzed for TPHg, BTEX and MtBE by EPA Method 8260B. The drive rods will then be retracted, leaving the disposable drive tip and four-foot length of PVC well screen in the boring.

## **WORKPLAN – PHASE 2 GROUNDWATER MONITORING WELL INSTALLATION**

After the data has been collected from the Phase 1 work as outlined above, Stantec will supervise the installation of additional groundwater monitoring well MW-4 at the approximate location shown on Figure 2. If results of the Phase 1 work indicate that the MtBE impact has migrated offsite, an additional groundwater monitoring well MW-5 will also be installed. The exact placement of the additional groundwater monitoring wells, and the screen interval for each, will be determined based on the results of the Phase 1 work. The wells will be installed using 8-inch diameter hollow stem augers to a depth of approximately 20 feet bgs. Soil samples will be collected as outlined in Table 4 using a split spoon sampler lined with 2-inch diameter by 6-inch-long brass or stainless-steel sample tubes. Actual soil samples submitted for analysis may be amended based on field observations. Downhole drilling equipment will be steam cleaned before drilling, and sampling equipment will be cleaned between each sampling interval. Each soil sample will be screened for hydrocarbon vapors using a PID. Soils encountered during drilling will be logged by a Stantec field geologist using the USCS, working under the supervision of a California Professional Geologist.

Soil samples collected will be sealed with Teflon sheets and plastic caps, labeled and placed on ice in an insulated container for delivery to Kiff. Soil samples will be analyzed for BTEX, TPHg, and MtBE by EPA Method 8260B.

The new wells will be constructed using schedule 40, 2-inch diameter PVC blank casing and 0.020-inch-slot well screen (Table 3). A sand filter pack will be placed within the annulus of the wells from the bottom of the borings to approximately two feet above the top of the well screens. The annulus of the wells will be sealed with two feet of bentonite on top of the sand, and a portland cement/bentonite grout to the surface. 8-inch-diameter, traffic-rated, watertight street boxes will be installed to protect the wells from surface traffic.

Following installation, MW-4 (and potential MW-5) will be developed by surging and bailing to remove fine-grained sediments from the well and sand pack. Periodic measurements of pH, conductivity and temperature will be collected during development to establish baseline values



for groundwater. Approximately 10 well casing volumes will be removed from the wells during development.

Soil and decon-water generated during the installation of the additional groundwater monitoring wells will be placed in DOT approved 55-gallon drums onsite pending characterization and disposal.

Following installation, the additional wells will be professionally surveyed to establish horizontal position in relation to pertinent site features and elevation with respect to mean sea level. The new wells will then be added to the groundwater monitoring and sampling program at the site.

### **SITE HEALTH AND SAFETY**

As required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120), and by California Occupational Health and Safety Administration (Cal-OSHA) "Hazardous Waste Operations and Emergency Response" guidelines (CCR Title 8, Section 5192), Stantec will prepare a Site-Specific Health and Safety Plan prior to the commencement of all field work. The Site-Specific Health and Safety Plan will be reviewed by the field staff and contractors before beginning field operations at the site.

### **PERMITTING AND UTILITY LOCATION**

Prior to conducting the proposed work, Stantec will obtain the appropriate encroachment permits from the City of Livermore and the appropriate soil boring and groundwater monitoring well installation permits from Zone 7 Water Agency. At least 48 hours prior to conducting subsurface work, Stantec will contact Underground Service Alert (USA) to delineate subsurface piping near the proposed boring locations with surface markings. A private utility locator service will also be contracted to clear the areas surrounding the proposed soil boring and monitoring well locations.

### **WATER SUPPLY WELL SURVEY**

In the September 29, 2011 *Work Plan for Additional Site Assessment and Results of Detailed Well Survey*, Stantec identified twelve wells within 2,000 feet of the site (Table 5). Two of these wells were reported approximately 300 feet west of the site. Stantec will perform a visual reconnaissance of the area and will conduct a door to door well survey if necessary to assess the accuracy of these locations.

## REPORTING

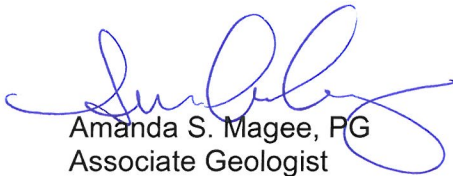
Stantec will prepare an assessment report summarizing the installation of the new well and data collected as follows:

- Details of field procedures and operations for each proposed phase;
- Boring logs;
- Tabulated results of the soil and groundwater sample analyses;
- Updated map showing the locations of the borings;
- Results of the water supply well survey.

If preferred by the ACEHS, Stantec will prepare separate reports for the two phases of work proposed in this work plan. The results of the assessment work will be uploaded to the ACEHS FTP site. In addition, the report(s) will be uploaded to the State of California GeoTracker database in EDF format, per California code AB2886.

Should you have any questions regarding this site, please contact the undersigned at (916) 861-0400.


Sincerely,  
**Stantec Consulting Corporation**



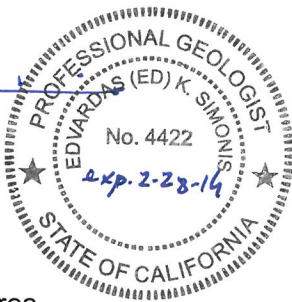
Amanda S. Magee, PG  
Associate Geologist



Damon Brown  
Senior Geologic Consultant  
Project Manager



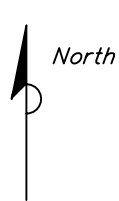
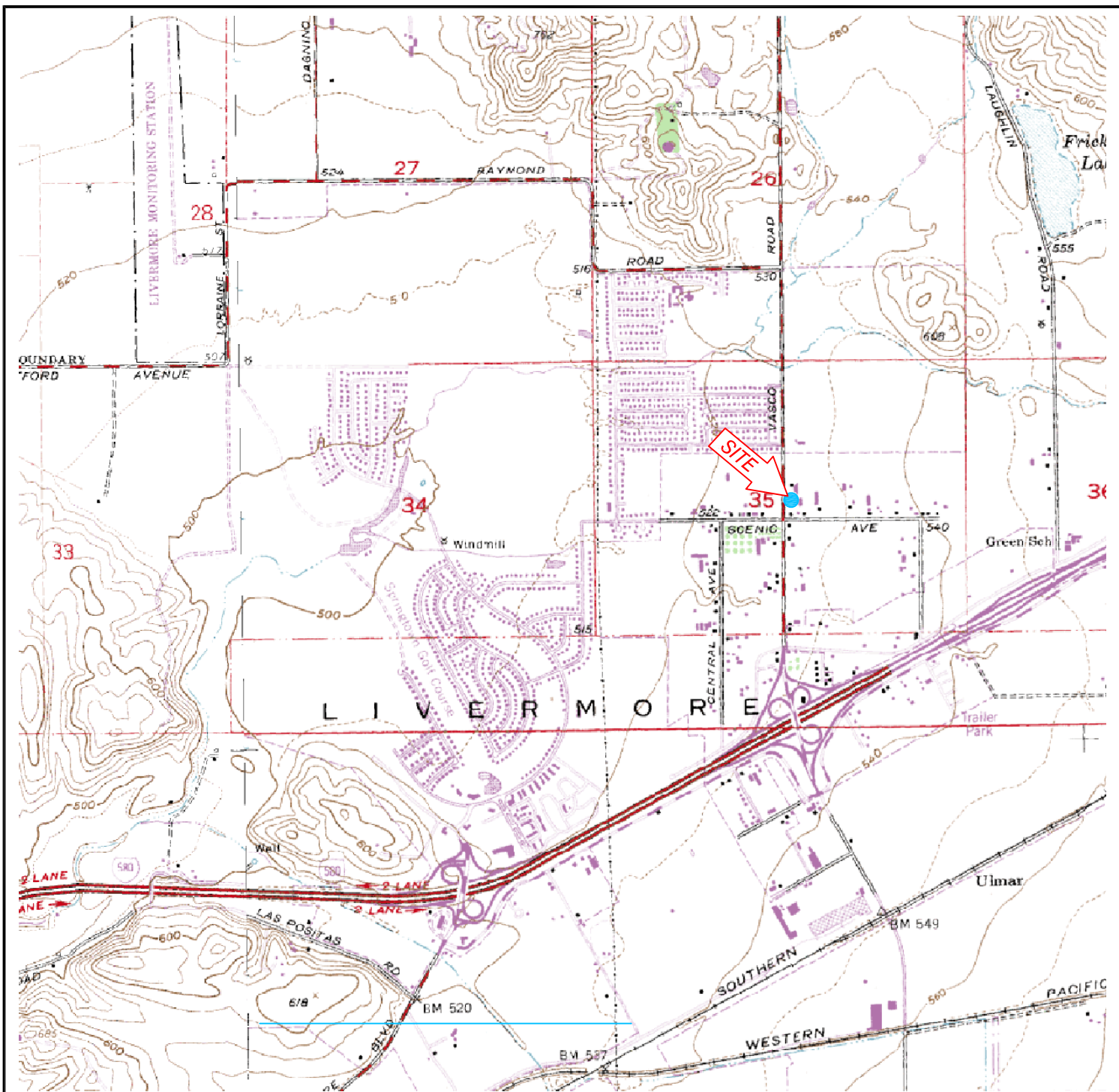
Ed Simonis, PG  
Senior Geologist



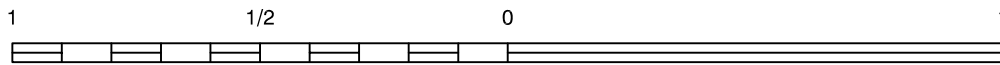
Attachments:  
Figures  
Tables  
Attachment A – Regulatory Correspondence

cc: Mr. Michael Blau, Michael Blau Trust, PO Box 2768, Danville, CA 94526  
Mr. John Wainwright, Stantec, 308 East 4500 South, Suite 100, Murray, Utah 84101

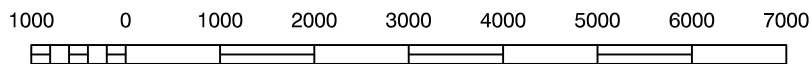
# Figures



CALIFORNIA



SCALE (MILES)



SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, LIVERMORE, CALIFORNIA



**Stantec**

FOR:  
 7-ELEVEN, INC.  
 FACILITY NO. 32266  
 1339 VASCO ROAD  
 LIVERMORE, CALIFORNIA

**SITE LOCATION MAP**

FIGURE:

**1**

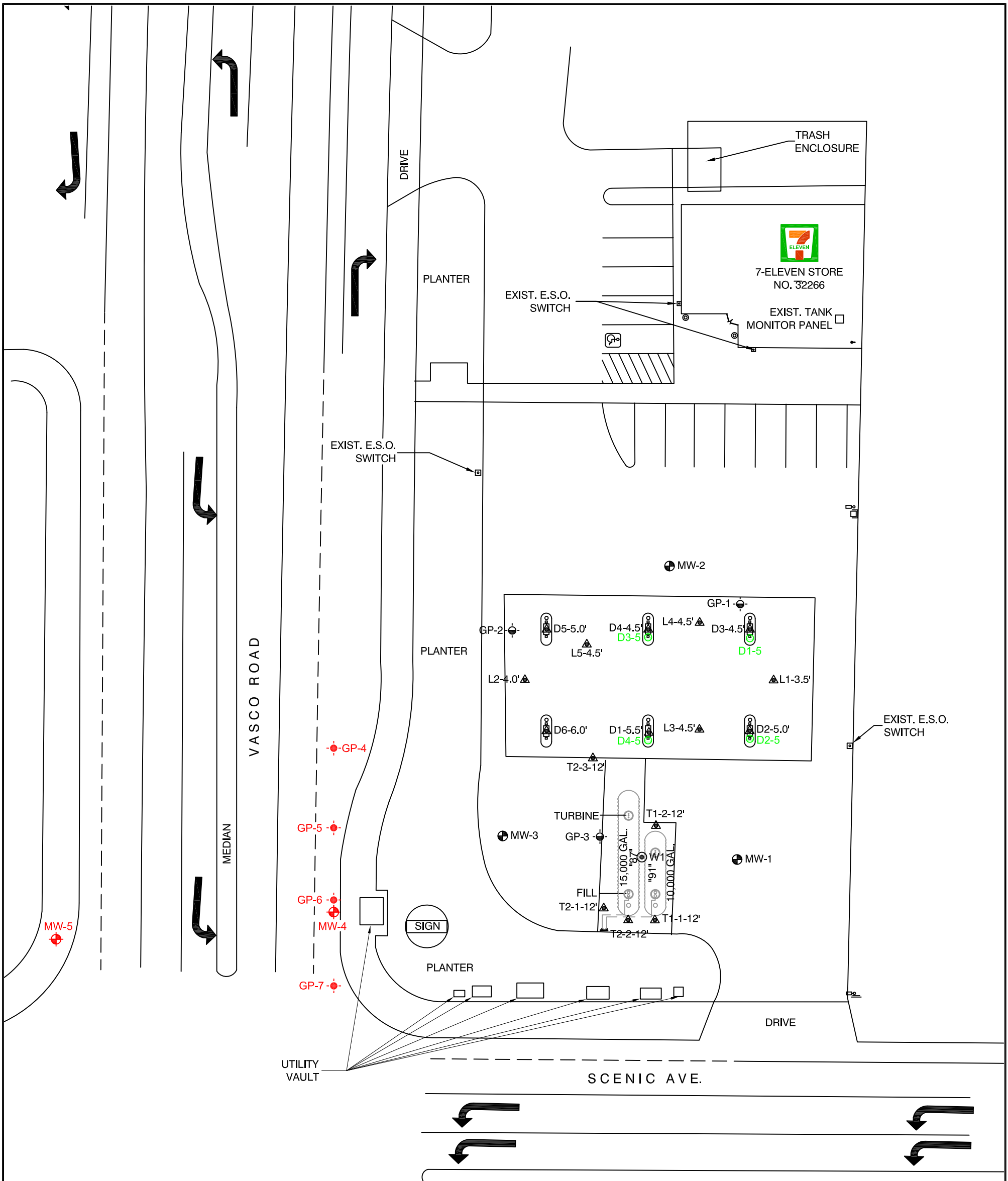
JOB NUMBER:  
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 STA

CHECKED BY:  
 PH

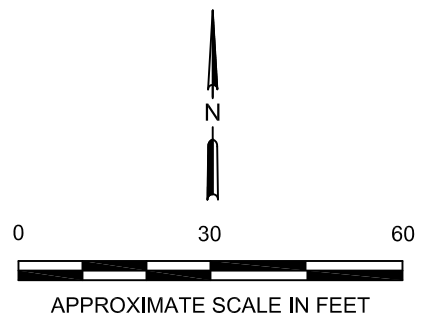
APPROVED BY:  
 DB

DATE:  
 05/06/10



**LEGEND:**

- GP-4 PROPOSED SOIL BORING
- MW-4 PROPOSED GROUNDWATER MONITORING WELL
- 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



No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

	FOR: STORE NO. 32266 1339 NORTH VASCO ROAD LIVERMORE, CALIFORNIA	<b>SITE PLAN WITH PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS</b>		FIGURE:  <b>2</b>
	JOB NUMBER: 211502037	DRAWN BY: STA	CHECKED BY: AM	APPROVED BY: DB

# Tables

**TABLE 1**  
**Historical Soil Sample Analytical Results**

7-Eleven Store #32266  
1339 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)	MtBE (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>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>	<b>J</b>
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>	
D1-5.5	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
D3-4.5	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
D4-4.5	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>	--	--	--	--	<b>J</b>

**TABLE 1  
Historical Soil Sample Analytical Results**

7-Eleven Store #32266  
1339 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)	MtBE (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>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>	--	--	--	--	<b>J</b>
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>	--	--	--	--	<b>J</b>
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>	--	--	--	--	<b>J</b>
<b>Stockpile Soil Samples</b>																	
SP1 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.75</b>	
SP1 (EFGH)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>2.66</b>	
SP1 (IJKL)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.30</b>	
SP1 (MNOP)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>4.40</b>	
SP2 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.80</b>	
SP2 (EFGH)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.01</b>	
SP2 (IJKL)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.24</b>	
SP2 (MNOP)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>5.15</b>	
SP2 (QRST)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>2.75</b>	
SP2 (UVWX)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.17</b>	
SP3 (ABCD)	01/28/05	--	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>3.14</b>	
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	--	--	--	<b>4.4</b>	b,c
SP1(ABCD)	04/20/10	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>6.8</b>	e
SP1(ABCD)	02/24/11	---	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.0050	--	--	--	--	--	--	--	<b>7.6</b>	

**Explanation:**

TPHg, BTEX, MtBE, 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  
MtBE = Methyl-tert-butyl ether  
DIPE = Diisopropyl ether  
EtBE = Ethyl-tert-butyl ether  
TAME = Tert-amyl-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 methyl-t-butyl ether 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 MtBE (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 MtBE/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.



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

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

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	TPHg (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDC (µg/L)	EtOH (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		--	--	--	--
<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	--	--	--		--	--	--	--
<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
<b>MW-2</b>																			
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

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

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

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	TPHg (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDC (µg/L)	EtOH (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
<b>MW-3</b>																			
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

Explanation:

BTEX, TPHg, MtBE, DIPE, ETBE, TAME, and TBA by 8260B

TPHg = Total petroleum hydrocarbons-as-gasoline

MtBE = Methyl-tert-butyl ether

DIPE = Diisopropyl ether

EtBE = Ethyl-tert-butyl ether

TAME = Tert-amyl-methyl ether

TBA = Tert-butyl alcohol

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

EtOH = 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 MtBE were affected by the analyte concentrations already present in the un-spike sample.

b = Tert-Butanol results may be biased slightly high. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. Kiff considers this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

**Table 3  
Soil Boring Details**

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

Well I.D.	Drill Date	Boring Depth (feet bgs)	Well Diameter (inches)	Screen		Screen Length (feet)	Comments
				Top (feet bgs)	Bottom (feet bgs)		
<b>Soil Borings</b>							
GP-1	04/20/10	20	--	--	--	--	
GP-2	04/20/10	25	--	--	--	--	
GP-3	04/20/10	30	--	--	--	--	
GP-4	<b>Proposed</b>	25	--	--	--	--	<b>Proposed off-site soil boring</b>
GP-5	<b>Proposed</b>	25	--	--	--	--	<b>Proposed off-site soil boring</b>
GP-6	<b>Proposed</b>	25	--	--	--	--	<b>Proposed off-site soil boring</b>
GP-7	<b>Proposed</b>	25	--	--	--	--	<b>Proposed off-site soil boring</b>
<b>Monitoring Wells</b>							
MW-1	02/23/11	20	2	5	20	15	
MW-2	02/24/11	20	2	5	20	15	
MW-3	02/23/11	25	2	5	20	15	
MW-4	<b>Proposed</b>	20	2	5	20	15	<b>Proposed off-site monitoring well</b>
MW-5	<b>Proposed</b>	20	2	5	20	15	<b>Proposed off-site monitoring well</b>
<b>Explanation</b>							
bgs = Below ground surface							
-- = Data Not Available/Not Applicable							

**Table 4**  
**Proposed Soil & Groundwater Sample Plan**

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

Sample Depth in Feet bgs		Soil Sample Interval					
		GP-4	GP-5	GP-6	GP-7	MW-4	MW-5
5		1	1	1	1	X	X
10		1	1	1	1	1	1
15		1	1	1	1	1	1
20		1	1	1	1	1	1
25		1	1	1	1		
<b>Analytes (Soil Samples)</b>	<b>Method</b>						
TPHg, BTEX & MTBE	EPA 8260						
<b>Total Proposed Soil Samples</b>	<b>26</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>3</b>
<b>Analytes (Grab groundwater samples)</b>	<b>Method</b>						
TPHg, BTEX & MTBE	EPA 8260						
<b>Total grab groundwater Samples</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

Explanation

- bgs = Depth in feet Below Surface Grade
- GP-4 = Proposed boring
- 1 = soil sample location proposed for analyses
- x = soil sample collection point, with no analyses proposed
- TPHg = TPHg = Total Petroleum Hydrocarbons as Gasoline
- BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
- MtBE = methyl tertiary butyl ether
- = Continuous core sampling

**Table 5**  
**Wells Within 2,000 Feet of Site**

7-Eleven Store #32266  
1339 Vasco Rd  
Livermore, California

Distance to Well(s) (feet)	Direction to Well(s)	Well(s) Use	Location of Well(s)	Install Date	Total Depth (feet bgs)	Well Diameter (inches)	Screen		Screen Length (feet)	Owner of Well	Notes	DWR Log # and/or Zone 7 Designation
							Top (feet bgs)	Bottom (feet bgs)				
1,100	Northwest	--	--	06/17/50	68	8	61	68	7	Henry Gaventi		DWR Log# 01-1272
1,100	Northwest	--	--	06/17/50	68	8	61	68	7	Henry Garaventa		DWR Log# 01-1273
450	North	--	1443 Vasco Rd	1951	88	8	76	88	12	Judi Meis		DWR Log# 261450R - Zone 7 Well 2S/2E-35G1
1,800	West-Southwest	Domestic	5488 Scenic Ave	08/10/60	100	8	--	--	--	H. Hale		DWR Log# 50756
300	West	--	5874 Scenic Ave	04/17/62	108	--	--	--	--	Charles Ellington		DWR Log# 01-1274
300	West	--	Vasco Rd & Scenic	02/28/75	120	--	95	120	25	Pacific Gas & Elect. Co.		DWR Log# 115712
1,400	South-Southwest	Irrigation	1151 Central Ave	06/05/89	106	6.63	35	43	8	David Hughes		DWR Log# 299180 - Zone 7 Well 2S/2E-35L2
1,350	South	Monitoring	1000 North Vasco Rd	07/17/95	15.8	2	5	15.68	10.68			
1,450	South	Monitoring	1000 North Vasco Rd	07/17/95	15.1	2	5	15.26	10.26	Geno Macedo		DWR Log#193174
1,550	South	Monitoring	1000 North Vasco Rd	07/18/95	15.5	2	5	15.05	10.05	Geno Macedo		DWR Log#193175
1,850	South	Monitoring	Northfront Rd (near Pleasant Ave.)	08/17/05	31.5	2	20.5	30.5	10	Zone 7 Water District		DWR Log# E073679
150	South	--	1289 Vasco Rd	--	--	--	--	--	--	--	A	No DWR Log - Zone 7 Well 2S/2E-35G1

Notes:  
bgs = below ground surface  
'--' = Unknown  
A= Zone 7 Water Agency reports this well as "Abandoned or Unlocatable"

# **Attachment A**

## **Regulatory Correspondence**



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November 21, 2011

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

Dear Mr. Hilliard and Mr. Blau:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the most recent documents entitled, "*Work Plan for Additional Site Assessment*," dated October 26, 2011 (Work Plan) and "*Quarterly Groundwater Monitoring Report – Third Quarter 2011*," dated October 3, 2011 (Monitoring Report). In correspondence dated August 29, 2011, ACEH requested that you submit a Work Plan to delineate the plume and to assess whether groundwater contamination from the site potentially could affect water supply wells in the area. The Work Plan, which was prepared by Stantec Consulting Corporation on behalf of 7-Eleven, Inc., presents plans to install one groundwater monitoring well in the downgradient direction.

The proposed scope of work is not sufficient to delineate the plume or to assess whether groundwater contamination from the site potentially could affect water supply wells in the area. We request that you submit a revised Work Plan that addresses the technical comments below.

### **TECHNICAL COMMENTS**

- 1. Definition of Lateral and Vertical Extent of Contamination.** During the most recent groundwater sampling event on August 9, 2011, MTBE was detected in groundwater from well MW-3 at a concentration of 1,700 µg/L. The Work Plan proposes the installation of one additional groundwater monitoring well in the median strip of Vasco Road, approximately 60 to 85 feet west southwest of MW-3. The installation of one groundwater monitoring well in the downgradient direction will not adequately define plume extent, particularly for an MTBE plume. MTBE plumes can be long, narrow, and erratic (meandering). Movement of MTBE as with other dissolved contamination, is primarily controlled by groundwater flow lines. These flow lines can be dramatically affected by discontinuities and can drop vertically in certain areas such as recharge zones and near pumping wells. Thus, monitoring wells can miss the core of the plume and not represent the extent of the plume. Therefore, we recommend that your investigation incorporate expedited site assessment techniques to collect soil and groundwater samples along a transect oriented perpendicular to the plume. Expedited site assessment tools and methods are a scientifically valid and cost-effective approach to fully define the three-dimensional extent of groundwater contamination. Technical protocol for expedited site assessments are provided in the U.S. Environmental Protection Agency's "Expedited Site Assessment tools for Underground Storage Tanks: A Guide for Regulators," (EPA 510-B-97-

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001), dated March 1997. We recommend that you utilize direct push technology to collect soil samples and depth-discrete groundwater samples prior to the installation of additional groundwater monitoring wells in the plume. Sampling locations should be located to assess the extent of the plume and should intercept contamination that potentially could affect a water supply well. Other options for additional investigation may be appropriate to define contamination at your site

2. **Locations of Water Supply Wells.** Figure 3 of the September 29, 2010, "*Work Plan for Additional Site Assessment and Detailed Well Survey*," shows two water supply wells located approximately 300 feet west of the site. We recommend that you inspect these locations and conduct a door to door well survey to assess the accuracy of these water supply well locations and to determine whether these water supply wells remain active or may have been destroyed. This information will be useful to achieve one of the objectives of the proposed investigation, which is to assess whether the plume could impact water supply wells. Please include this information in the Revised Work Plan requested below.

### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **January 15, 2012** – Quarterly Groundwater Monitoring Report – Fourth Quarter 2011
- **March 8, 2012** – Revised Work Plan

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org). Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>. As your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions



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cc: 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))

Damon Brown, Stantec Consulting Corporation, 3017 Kilgore Road, Suite 100, Rancho Cordova,  
CA 95670 (Sent via E-mail to: [damon.brown@stantec.com](mailto:damon.brown@stantec.com))

Donna Drogos, ACEH (Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Jerry Wickham, ACEH (Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org))

GeoTracker, eFile

## Attachment 1

### Responsible Party(ies) Legal Requirements / Obligations

#### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and [other](#) data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> July 20, 2010
	<b>ISSUE DATE:</b> July 5, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.