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

July 20, 2012

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

RE: **Enclosed Additional Site Assessment Report**
7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA 94551
Stantec Project #:211502037.230.0502

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).

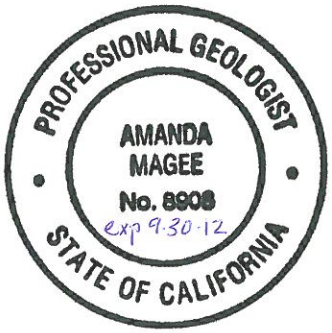
We declare, under penalty of perjury, that the information and/or recommendations contained in the attached assessment report are true and correct to best of our knowledge.

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

Amanda Magee, P.G.
Associate Geologist



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.

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July 20, 2012

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

RE: **Additional Site Assessment Report**
7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA 94551
Stantec Project #: 211502037.230

Dear Mr. Wickham:

This report was prepared by Stantec Consulting Services Inc., (Stantec) on behalf of 7-Eleven Inc. (7-Eleven) to document the advancement of four direct-push soil borings (GP-4 through GP-7) at 7-Eleven store #32266, located at 1339 Vasco Road in Livermore, California (Figures 1 and 2). This work was performed in accordance with Stantec's March 5, 2012, *Revised Work Plan for Additional Site Assessment* and the March 26, 2012, approval letter from the Alameda County Environmental Health Services (ACEHS) (Attachment A).

INTRODUCTION

The site is currently operating as a 7-Eleven convenience store and gasoline station with one 10,000-gallon and one 15,000-gallon underground storage tanks (USTs) (Figure 2). Stantec supervised the advancement of four direct-push soil borings (GP-4 through GP-7) to further define the limits of MtBE impacts in soil and groundwater at the site.

The work summarized in this report includes:

1. Obtaining permits
2. Preparing a site-specific *Health and Safety Plan*.
3. Clearing four boring locations using Underground Service Alert (USA) and a private utility locator.
4. Advancement and sampling of four direct-push soil borings.
5. Submitting soil and grab groundwater samples for laboratory analysis.

It should be noted that the March 2012 Workplan indicated that Stantec would complete the investigation in a phased approach; this report describes the first phase of the investigation. The

second phase, which includes the installation of two monitoring wells, will be completed following ACEHS approval.

SITE BACKGROUND

In January 2005, two single-walled steel, fiberglass-jacketed 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 (LPFD) and the California Regional Water Quality Control Board (CRWQCB).

On December 4, 2008, a Stantec Consulting Corporation (now Stantec Consulting Services Inc. [Stantec]) 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.

Between February 23 and 24, 2010, Stantec supervised the installation of three groundwater monitoring wells (MW-1, MW-2 and MW-3). On March 25, 2011, Stantec submitted an *Additional Site Assessment* Report to the ACEHS. Soil samples collected from MW-1 and MW-2 did not contain petroleum hydrocarbon concentrations above laboratory reporting limits. MtBE and TBA were reported at concentrations ranging from 0.0082 mg/kg to 0.33 mg/kg in soil samples collected from MW-3.

In a letter dated August 29, 2011, the ACEHS requested the submittal of a work plan for plume delineation to assess whether the plume extends to the water supply of the two wells located approximately 300 feet west of the site. On October 25, 2011, Stantec submitted the *Work Plan for Additional Assessment.* In a letter dated November 21, 2012, the ACEHS requested a revised work plan to address their technical comments. The *Revised Work Plan for Additional*

Assessment was submitted on March 5, 2012. The revised work plan was approved by the ACEHS on March 26, 2012.

LOCATIONS OF WATER SUPPLY WELLS

In the ACEHS letter dated March 26, 2012, it was requested that Stantec investigate the locations of the two water supply wells identified 300 feet west of the site in the September 29, 2010 *Work Plan for Additional Site Assessment and Results of Detailed Well Survey*. Stantec conducted further investigations and a physical reconnaissance to determine the status of these two wells.

- 5874 Scenic Avenue (identified as "Well #5" in the well survey report): According to the well log, this well was installed on April 17, 1962 for Charles Ellington. No use description was noted on the well log. It is presumed, based on the previous use of the area, that the well was a private water supply well for irrigation or drinking water. Currently, the address of 5874 Scenic Avenue is not linked to any building, however it is estimated that the address lies on the south side of Scenic Avenue, approximately 300 feet west of the 7-Eleven site. Historic aerial photographs show a structure (possibly a residence) where that address may have been. The surrounding areas were undeveloped and agricultural. That area is now occupied by a single-family housing tract, which was constructed in the 1990s. North of Scenic Avenue is a shopping center constructed in the early 2000s. No evidence of this well was observed during the reconnaissance. Based on this information, it is likely that the well was destroyed during the development of the housing tract; however if the well is still present, it is no longer used as a water supply well.
- Vasco Road and Scenic (identified as "Well #6" in the well survey report): According to the well log, this was a cathodic protection well installed on March 12, 1975 for Pacific Gas and Electric (PG&E). Cathodic protection wells are not used as water supply wells. The well was installed in Scenic Avenue, 220 feet west of the intersection of Vasco Road. No evidence of the cathodic protection well was present during the site reconnaissance; however it is likely that the road has been re-paved since it was installed.

Based on this information, it appears that the dissolved MtBE plume will not impact water supply wells. Tables, figures, and copies of the well logs from the 2010 Well Survey report are included in Attachment B.

SOIL BORING, SAMPLING, AND WELL INSTALLATION

Permitting/Site-Specific Health and Safety Plan/Utility Clearance

Soil boring permits were obtained from Zone 7 Water Agency prior to conducting subsurface work at the site. In addition, Stantec obtained encroachment permits from the City of Livermore Community Development Department to advance the soil borings in the Vasco Road right-of-way. Copies of the permits are included in Attachment C.

Stantec prepared site-specific *Health and Safety Plan* (HASP) for the soil boring advancement and sampling activities at the site, as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response"

guidelines (29 CFR 1910.120). The document was reviewed and signed by all Stantec personnel and subcontractors prior to performing work at the site.

Prior to conducting subsurface work at the site, USA was contacted to delineate subsurface piping and/or utilities at the site with surface markings. In addition, a private utility locator service was contracted to clear the area surrounding each of the soil boring locations.

Soil Borings

Between July 10 and 12, 2012, Stantec supervised as WDC advanced four direct-push soil borings GP-4 through GP-7 at the locations shown on Figure 2. The first five feet of each boring were advanced via hand auger. At five feet bgs, borings GP-4, GP-5, GP-6, and GP-7 were advanced using a truck-mounted rig equipped with a two-inch diameter Macro Core® sampling device to a total depth of 25 feet bgs (Table 3). Downhole equipment was properly cleaned before advancing each borehole.

Soil boring and well construction details are summarized in Table 3, and field notes are included in Attachment D.

Soil Sampling

Soils were continuously cored from borings GP-4 through GP-7 starting at five feet bgs. Soil samples were collected from each direct push soil boring using a two-inch diameter by four-foot long core barrel containing a 1.75-inch diameter clear acrylic sample tube. Sampling equipment was properly cleaned between each sampling interval. Each soil sample was screened for hydrocarbon vapors using a portable photoionization detector (PID). Soils encountered during soil boring advancement were logged using the Unified Soil Classification System by a Stantec field geologist, working under the supervision of a California Professional Geologist.

Soil samples collected for analysis were sealed with Teflon® sheets and plastic caps, labeled, and placed on ice in an insulated container accompanied by the appropriate chain of custody (COC) documentation for delivery to Kiff Analytical LLC (Kiff), a Californa State certified laboratory located in Davis, California. The soil samples were analyzed for TPHg, BTEX, and MtBE by Environmental Protection Agency (EPA) Method 8260B.

Soil Stratigraphy and Geology

Based on the description of the soil samples collected from soil borings GP-4 through GP-7, the soil stratigraphy encountered consists mainly of clay and gravelly clay from ground surface to about 25 feet bgs. A shallow silt layer was observed in GP-5 and GP-6 to 10 feet bgs, and a sand layer was observed in GP-7 from 11 to 13 feet bgs. Copies of the soil boring logs are included in Attachment E.

Grab-Groundwater Sampling

Grab groundwater samples were collected from direct-push borings GP-4, GP-5, and GP-7 after collecting the soil samples described above. Water was not encountered in soil boring GP-6 at the total depth of 25 feet bgs. A disposable schedule 20 polyvinyl chloride (PVC) screen was placed in each boring to act as a temporary well. Water samples were collected by lowering a clean disposable ¾"-diameter PVC bailer through the drive rods to groundwater. The groundwater was then decanted from the bailer into 40-ml VOA vials. Each VOA vial was checked to ensure no bubbles were present, labeled, placed on ice, and transported to the

laboratory accompanied by the appropriate COC documentation. Groundwater samples were submitted to the laboratory for analysis of TPHg, BTEX, and MtBE.

Following logging of soil stratigraphy and collection of soil and grab-groundwater samples, soil borings GP-4 through GP-7 were tremie-grouted from total depth to grade with neat cement.

Waste Disposal
Soil generated during soil boring advancement was temporarily stored on site in DOT approved, properly labeled, 55-gallon drums, pending profiling and disposal. A four-point composite soil sample, SP1(ABCD), was collected from the soil bins and analyzed for TPHg, BTEX, and MtBE by EPA Method 8260B, and total lead by EPA Method 6010B (Table 1). A copy of the certified laboratory analytical reports and chain-of-custody documentation are included in Attachment F. Copies of the waste disposal documentation will be provided under a separate cover.

RESULTS OF SAMPLING ANALYSIS

Soil Sample Analytical Results
A total of 19 soil samples were collected from soil borings GP-4 through GP-7 for laboratory analysis. BTEX and TPHg were not detected above laboratory reporting limits in any of the soil samples submitted for analysis. MtBE was reported solely in the samples collected from GP-5 at depths of 15, 20, and 25 feet bgs at concentrations of 0.024 mg/kg, 0.056 mg/kg, and 0.024 mg/kg, respectively. Soil sample analytical results are summarized in Table 1, and a copy of the certified laboratory analytical reports and chain-of-custody documentation are included in Attachment F.

Grab-Groundwater Sample Analytical Results
BTEX was not detected at concentrations above the laboratory reporting limits in any of the grab groundwater samples submitted during this investigation. TPHg was detected in groundwater samples GP-4W and GP-5W at concentrations of 75 µg/L and 95 µg/L, respectively. MtBE was detected in groundwater samples GP-4W and GP-5W at concentrations of 13 µg/L and 350 µg/L, respectively. Groundwater sample analytical results are summarized in Table 2, and a copy of the certified laboratory analytical reports and chain-of-custody documentation are included in Attachment F.

SUMMARY AND CONCLUSIONS

Four soil borings (GP-4, GP-5, GP-6, and GP-7) were advanced between July 10 and 12, 2012. Soil samples collected from the borings did not contain detectable concentrations of BTEX or TPHg. MtBE was reported solely in the soil samples collected from GP-5 at depths of 15 to 25 feet, with a maximum concentration of 0.056 mg/kg. BTEX was not detected at concentrations above the laboratory reporting limits in any of the grab groundwater samples submitted during this investigation. TPHg and MtBE were detected in groundwater samples GP-4W and GP-5W at maximum concentrations of 95 µg/L and 350 µg/L, respectively.

Based on the soil and groundwater analytical data collected during this investigation, Stantec recommends installing monitoring wells MW-4 and MW-5 as described in the March 2005 Workplan at the locations depicted on Figure 2.

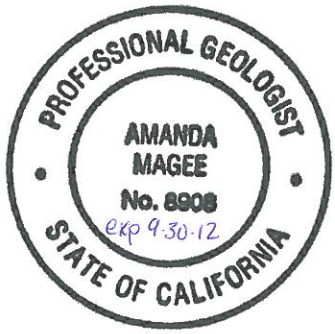
The results of the assessment work will be uploaded to the ACEHS FTP site. In addition, the report will be uploaded to the State of California GeoTracker database in EDF format, per California code AB2886.

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

Sincerely,
Stantec Consulting Corporation

Prepared by:

Amanda S. Magee, P.G.
Associate Geologist



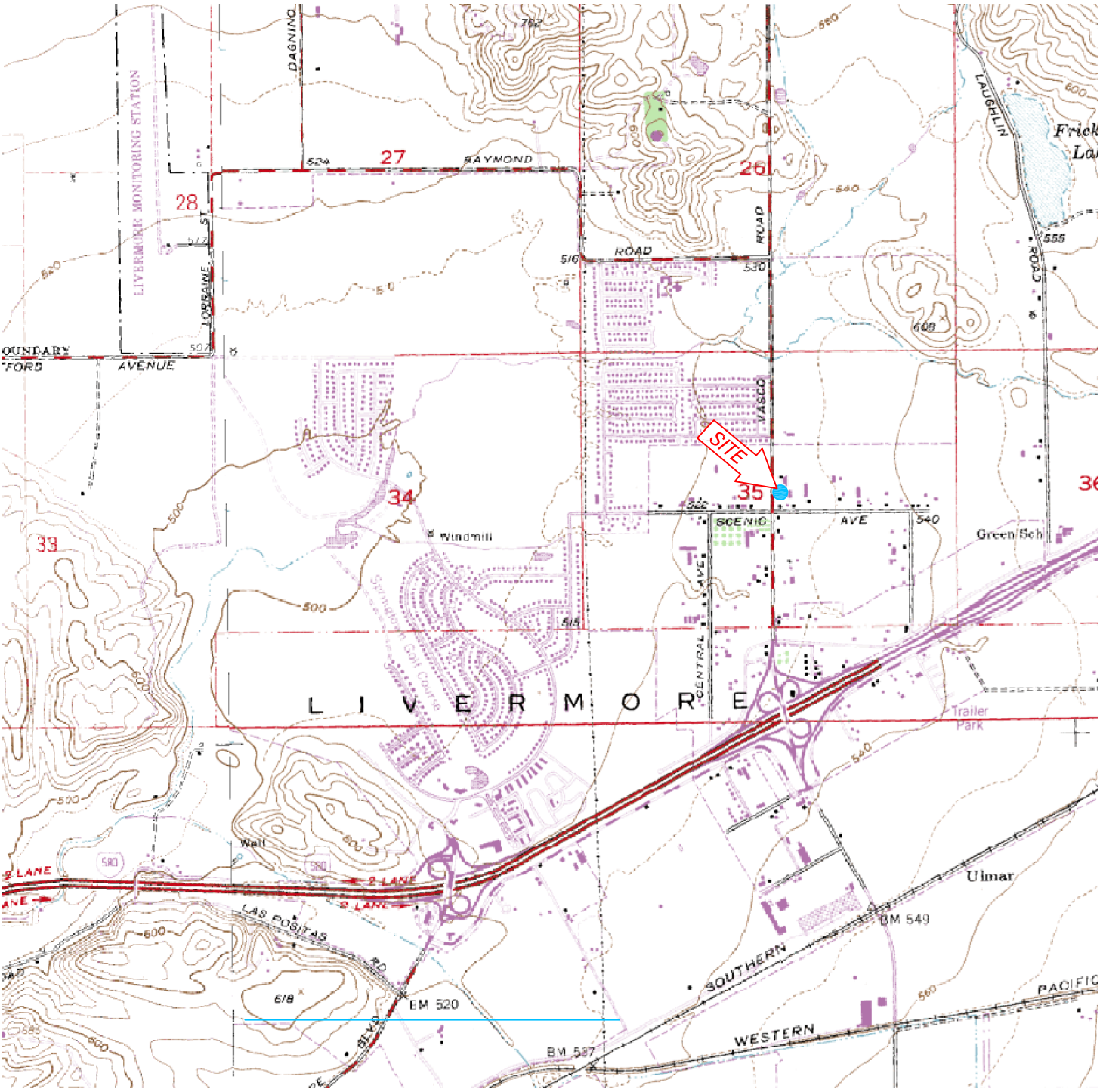
Reviewed by:

Damon Brown
Senior Geologic Consultant
Project Manager

ATTACHMENTS
Figures
Tables
Attachment A – Regulatory Correspondence
Attachment B – Well Survey Report Information
Attachment C – Soil Boring and Encroachment Permits
Attachment D – Field Notes
Attachment E – Soil Boring Logs
Attachment F – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Mr. John Wainwright, Stantec, 308 East 4500 South, Suite 100, Murray, Utah 84101

Figures



North

CALIFORNIA

1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, LIVERMORE, CALIFORNIA

Stantec

FOR: 7-ELEVEN

STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	PH	DB	03/08/11

FILEPATH:M:\7-Eleven\32266\FIG 1-SITE LOCATION MAP.dwg | Layout Tab: Layout1 | Drafter: saguinaldo | Mar 08, 2011 at 19:38

DRIVE

TRASH ENCLOSURE

PLANTER

7-ELEVEN STORE NO. 32266

EXIST. E.S.O. SWITCH

EXIST. TANK MONITOR PANEL

EXIST. E.S.O. SWITCH

MW-2

GP-1

GP-2

D5-5.0'

D4-4.5'
D3-5

L4-4.5'

D3-4.5'
D1-5

L5-4.5'

L2-4.0'

L1-3.5'

D6-6.0'

D1-5.5'
D4-5

L3-4.5'

D2-5.0'
D2-5

EXIST. E.S.O. SWITCH

T2-3-12'

GP-4

GP-5

MW-4

TURBINE

T1-2-12'

MW-3

GP-3

15,000 GAL. "87"

W1

"91" 10,000 GAL.

MW-1

FILL

T2-1-12'

T1-1-12'

T2-2-12'

GP-6

SIGN

MW-5

PLANTER

GP-7

VASCO ROAD

MEDIAN

DRIVE

UTILITY VAULT

SCENIC AVE.

LEGEND:

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

N

0 30 60

APPROXIMATE SCALE IN FEET

Stantec

FOR:

STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

SITE PLAN WITH PROPOSED MONITORING WELL LOCATIONS

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	ASM	DB	07/17/12

FILEPATH:M:\7-Eleven\32266\FIG 2_7-11_32266_SITE PLAN WITH PROPOSED WELL_07-17-2012.dwg | Layout Tab: Layout1-11x17L | Drafter: saguinaldo | Jul 17, 2012 at 13:34

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
Dispenser Samples																	
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	**6.71**	
D2-5.0	01/28/05	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.039**	<0.0050	<0.0050	<0.0050	**0.016**	<0.0050	<0.0050	**0.010**	**6.57**	
D3-4.5	01/28/05	4.5	**0.026**	**0.086**	**0.010**	**0.055**	<1.0	**0.14**	<0.0050	<0.0050	<0.0050	**0.0064**	<0.0050	<0.0050	**0.27**	**28.4**	**J**
D4-4.5	01/28/05	4.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.012**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	**6.01**	
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	**5.53**	
D6-6.0	01/28/05	6.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.018**	<0.0050	<0.0050	<0.0050	**0.049**	<0.0050	<0.0050	<0.010	**4.98**	
D1-5.5	12/04/08	5.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.024**	<0.0050	<0.0050	<0.0050	**0.0076**	--	--	--	--	a, c
D2-5.0	12/04/08	5.0	**0.21**	**0.59**	**0.26**	**1.4**	**12**	<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
Line Samples																	
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	**5.51**	
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	**11.2**	
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	**7.14**	
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	**6.61**	
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	**6.49**	
UST Excavation Samples																	
T1-1-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.034**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	**5.82**	
T1-2-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**2.4**	<0.0050	<0.0050	**0.0068**	**2.6**	<0.0050	<0.0050	<0.025	**6.49**	
T2-1-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.016**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	**6.65**	
T2-2-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.010**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	**7.50**	
T2-3-12	01/28/05	12	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.18**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	**5.66**	
Soil Boring Soil Samples																	
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	**0.023**	<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	**1.1**	<0.0050	<0.0050	<0.0050	**0.0076**	--	--	--	--	**J**
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	--	--	--	--	--	--	--	--	

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
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	**0.024**	--	--	--	--	--	--	--	--	
GP-5-20	07/10/12	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.056**	--	--	--	--	--	--	--	--	
GP-5-25	07/10/12	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.024**	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	
Monitoring Wells																	
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	**0.33**	<0.0050	<0.0050	<0.0050	**0.0082**	--	--	--	--	**J**
MW-3-20	02/23/11	20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.22**	<0.0050	<0.0050	<0.0050	**0.053**	--	--	--	--	**J**
MW-3-25	02/23/11	25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	**0.084**	<0.0050	<0.0050	<0.0050	**0.010**	--	--	--	--	**J**
Stockpile Soil Samples																	
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**	

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

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)	Total 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)
UST Excavation Groundwater Sample																			
W1	01/28/05	**25**	**290**	**62**	**520**	**3,400**	**180**	**15**	<1.5	<1.5	<1.5	<1.5	<1.5	**2,600**		--	--	--	--
Baker Tank Samples																			
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**	--	--	--	--	--	--	--		--	--	--	--
Grab Groundwater Samples																			
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	<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	--	--	--	--	--	--	--		--	--	--	--
Monitoring Well Samples																			
MW-1																			
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
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	--	--	--		0.51	8.88	0.00	521.67
MW-3																			
530.74	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	**5,600**	**170**	<0.50	<0.50	**10**	--	--	--		2.54	9.11	0.00	521.63
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	**3,200**	**180**	<0.50	<0.50	**5.4**	--	--	--		0.32	9.15	0.00	521.59
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	**1,700**	**78**	<0.50	<0.50	**2.8**	--	--	--		0.42	9.36	0.00	521.38
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	**1,900**	**85**	<0.50	<0.50	**2.9**	--	--	--	b	0.6	9.37	0.00	521.37
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	**1,100**	**58**	<0.50	<0.50	**2.2**	--	--	--		0.5	9.57	0.00	521.17
	04/05/12	<2.5	<2.5	<2.5	<2.5	<250	**2,000**	**57**	<2.5	<2.5	**3.3**	--	--	--	b	0.47	9.44	0.00	521.30

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)	Total 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)

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 rations of over 20:1.
c = Analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

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)		
Soil Borings							
GP-1	04/20/10	20	--	--	--	--	
GP-2	04/20/10	25	--	--	--	--	
GP-3	04/20/10	30	--	--	--	--	
GP-4	07/10/12	25	--	--	--	--	Off-site soil boring
GP-5	07/10/12	25	--	--	--	--	Off-site soil boring
GP-6	07/11/12	25	--	--	--	--	Off-site soil boring
GP-7	07/12/12	25	--	--	--	--	Off-site soil boring
Monitoring Wells							
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	***Proposed***	20	2	5	20	15	***Proposed off-site monitoring well***
MW-5	***Proposed***	20	2	5	20	15	***Proposed off-site monitoring well***

Explanation
bgs = Below ground surface
-- = Data Not Available/Not Applicable

Attachment A
Regulatory Correspondence

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

March 26, 2012

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*)

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

Subject: Conditional Work Plan Approval 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, "*Revised Work Plan for Additional Site Assessment,"* dated March 5, 2012 (Work Plan) and "*Quarterly Groundwater Monitoring Report – Fourth Quarter 2011,"* dated October 3, 2011 (Monitoring Report). In correspondence dated November 21, 2011, ACEH requested that you submit a Revised 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 proposed scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed and incorporated during the proposed investigation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Phased Approach.** We have no objection to a phased approach to investigation. However, we request that you submit the results from the first phase of investigation and the results from the well survey requested in technical comment 2 prior to implementing the proposed monitoring well installation.

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. It is necessary to 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 is necessary to assess whether the plume could impact water supply wells. Please include this information in the Site Investigation Report requested below.

3. **Groundwater Monitoring.** The existing monitoring wells have been sampled during four consecutive monitoring events. Please consider implementing semi-annual groundwater monitoring for these existing wells in the future unless the groundwater monitoring data is needed in association with ongoing site investigation activities.

TECHNICAL REPORT REQUEST

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

- **April 30, 2012** – Quarterly Groundwater Monitoring Report – Fourth Quarter 2011
- **July 26, 2012** – Site Investigation Report

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at 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

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (*Sent via E-mail to: 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*)

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

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

GeoTracker, eFile

Attachment B
Well Survey Report Information

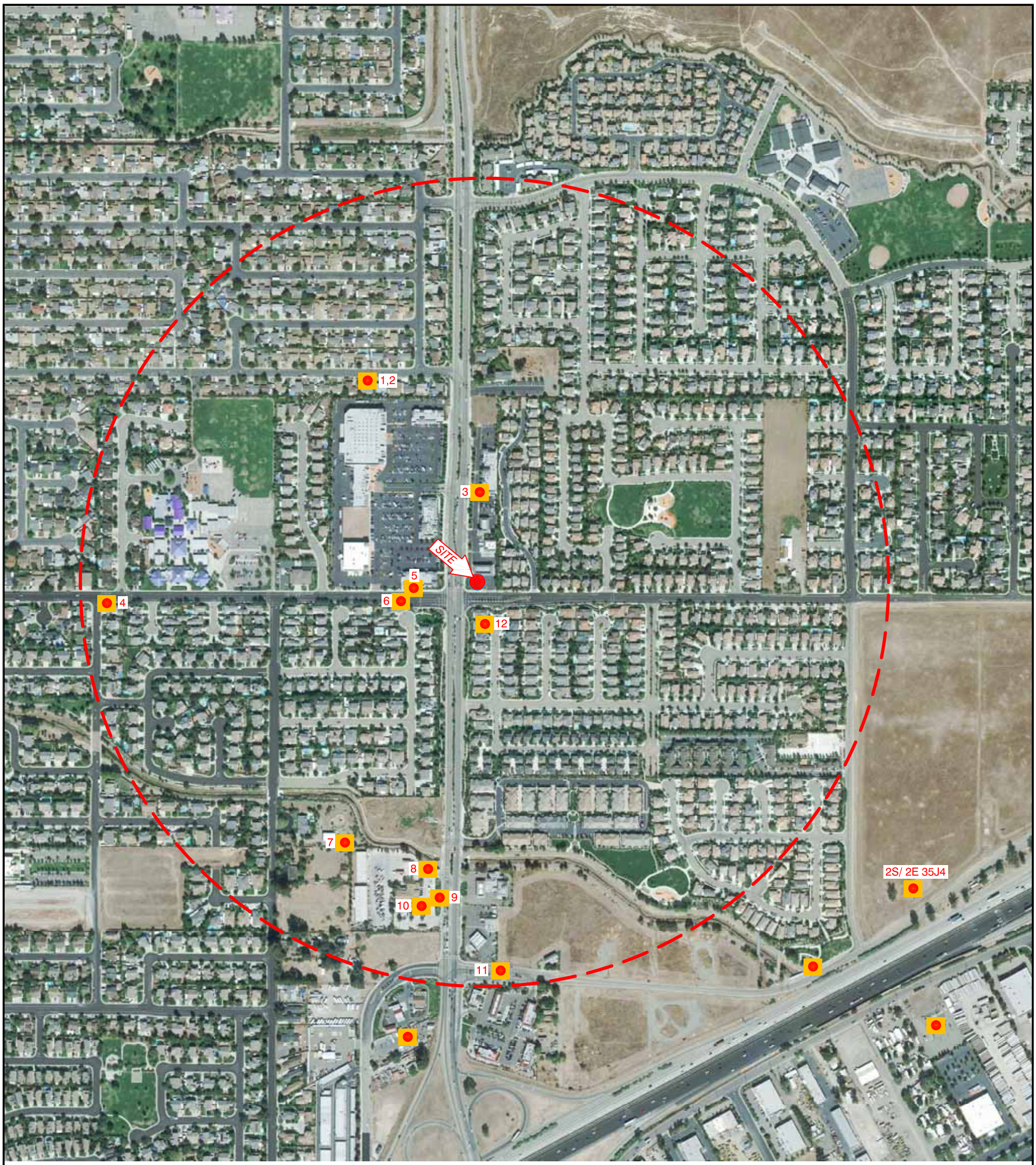
Table 5
Wells Within 2,000 Feet of Site

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

Well Label	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	1,100	Northwest	--	--	06/17/50	68	8	61	68	7	Henry Gaventi		DWR Log# 01-1272
2	1,100	Northwest	--	--	06/17/50	68	8	61	68	7	Henry Garaventa		DWR Log# 01-1273
3	450	North	--	1443 Vasco Rd	1951	88	8	76	88	12	Judi Meis		DWR Log# 261450R - Zone 7 Well 2S/2E-35G
4	1,800	West-Southwest	Domestic	5488 Scenic Ave	08/10/60	100	8	--	--	--	H. Hale		DWR Log# 50756
5	300	West	--	5874 Scenic Ave	04/17/62	108	--	--	--	--	Charles Ellington		DWR Log# 01-1274
6	300	West	--	Vasco Rd & Scenic	02/28/75	120	--	95	120	25	Pacific Gas & Elect. Co.		DWR Log# 115712
7	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
								61	81	20			
8	1,350	South	Monitoring	1000 North Vasco Rd	07/17/95	15.8	2	5	15.68	10.68	Geno Macedo		DWR Log#193173
9	1,450	South	Monitoring	1000 North Vasco Rd	07/17/95	15.1	2	5	15.26	10.26	Geno Macedo		DWR Log#193174
10	1,550	South	Monitoring	1000 North Vasco Rd	07/18/95	15.5	2	5	15.05	10.05	Geno Macedo		DWR Log#193175
11	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
12	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"



LEGEND:

= 2,000-FOOT RADIUS

= IDENTIFIED WELLS

N

0 500 1,000

APPROXIMATE SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON GOOGLE AERIAL IMAGE.

Stantec

FOR:
7-ELEVEN
STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

2,000-FOOT RADIUS WELL SURVEY MAP

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	PH	DB	09/29/10

FILEPATH:M:\7-Eleven\32266\FIG 3_7-11_32266_2000 FOOT RADIUS WELL SURVEY_09-29-2010.dwg | Layout Tab: Layout1 | Drafter: saguinaldo | Sep 29, 2010 at 14:41

01-1274

2/2 - 35 F

Charles Ellington

April 17,1962
5874 Seenic Avenue

Feet		Description
0-9	5	light sandy top soil
9-34	5	yellow sandy clay
34-76	20	yellow sand
76-95	3	sticky brown clay
95-101	20	loose sand and gravel
101-108	3	hard brown clay

9
10
20
30
34
40
50
60
70
76
80
90
95
100
101
108

9
10
20
30
34
40
50
60
70
80
90
95
100
101

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Attachment C
Soil Boring and Encroachment Permits

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Continued Environmental Investigation for 7-Eleven Store #32266 at 1359 North Vasco Road, Livermore, CA

Coordinates Source _____ ft. Accuracy _____ ft.
LAT. _____ ft. LONG _____ ft.
APN _____

CLIENT
Name 7-Eleven, Inc., Jose Rios, Manager, Environmental Services
Address P.O. Box 711 Phone (972) 828-6592
City Dallas, TX Zip 75221-0711

APPLICANT
Name Debbie Lichtenberger for Stantec Consulting Services, Inc.
Email deborah.lichtenberger@stantec.com Fax 916-361-0330
Address 3017 Kilgore Road, Suite 100 Phone 916-364-0724
City Rancho Cordova, CA Zip 95670

TYPE OF PROJECT

Well Construction	__	Geotechnical Investigation	
Well Destruction	__	Contamination Investigation	X
Cathodic Protection	__	Other	__

PROPOSED WELL USE

Domestic	__	Irrigation	__
Municipal	__	Remediation	__
Industrial	__	Groundwater Monitoring	X
Dewatering	__	Other	__

DRILLING METHOD

Mud Rotary	__	Air Rotary	__	Hollow Stem Auger	X
Cable Tool	__	Direct Push	X	Other	__

DRILLING COMPANY WDC Exploration and Wells

DRILLER'S LICENSE NO. 293326

WELL SPECIFICATIONS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in. Depth
Surface Seal Depth 9 ft. Number MW-4 and MW-5

SOIL BORINGS
Number of Borings 4 Maximum
Hole Diameter 2 in. Depth 25 ft.

ESTIMATED STARTING DATE after June 1, 2012
ESTIMATED COMPLETION DATE before June 30, 2012

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE D. Lichtenberger Date 05/04/12

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER 2012058
WELL NUMBER 2S/2E-35G12 (MW-4), 2S/2E-35G13 (MW-5)
APN 099B-8122-001-00

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

(A) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.**
3. Permit is void if project not begun within 90 days of approval date.
4. **Notify Zone 7 at least 24 hours before the start of work.**

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

(C) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

(D) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

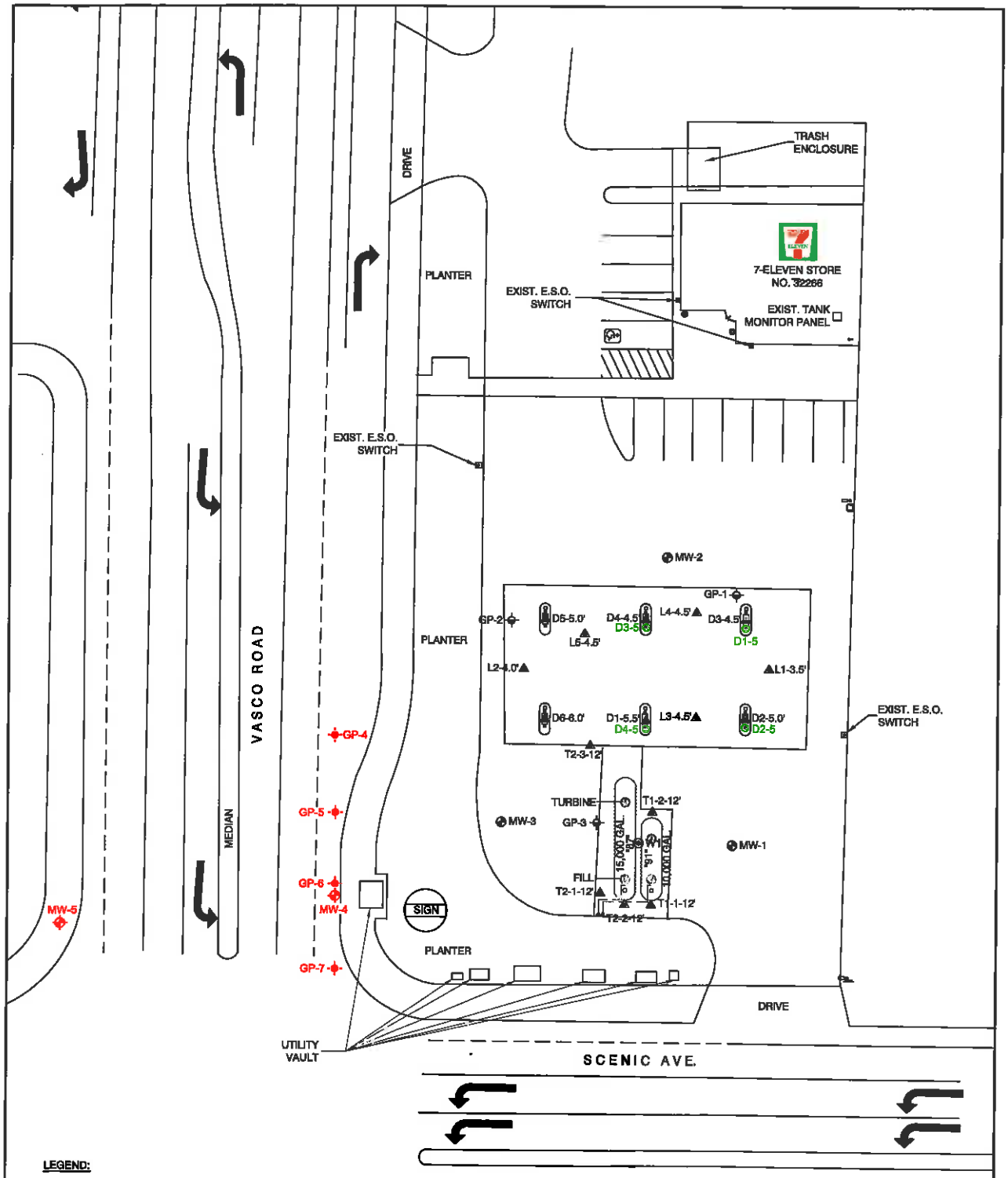
E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

Approved Wyman Hong Date 6/6/12
Wyman Hong

Revised: January 4, 2010



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

N

0 30 60

APPROXIMATE SCALE IN FEET

Stantec

FOR: 7-ELEVEN STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

SITE PLAN WITH PROPOSED SOIL BORING AND MONITORING WELL LOCATIONS

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	AM	DB	03/01/12

FILEPATH:M:\7-Eleven\32266\FIG 2_7-11_32266_SITE PLAN WITH PROPOSED WELL_10-18-2011.dwg | Layout Tab: Layout1-11x17L | Drafter: asguinaldo | Mar 02, 2012 at 11:20

Table 1
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)		
Soil Borings							
GP-1	04/20/10	20	--	--	--	--	
GP-2	04/20/10	25	--	--	--	--	
GP-3	04/20/10	30	--	--	--	--	
GP-4	***Proposed***	25	--	--	--	--	***Proposed off-site soil boring***
GP-5	***Proposed***	25	--	--	--	--	***Proposed off-site soil boring***
GP-6	***Proposed***	25	--	--	--	--	***Proposed off-site soil boring***
GP-7	***Proposed***	25	--	--	--	--	***Proposed off-site soil boring***
Monitoring Wells							
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	***Proposed***	20	2	5	20	15	***Proposed off-site monitoring well***
MW-5	***Proposed***	20	2	5	20	15	***Proposed off-site monitoring well***

Explanation
bgs = Below ground surface
-- = Data Not Available/Not Applicable

City of Livermore

Community Development Department
1052 S. Livermore Avenue
Livermore, CA 94550
(925) 960-4500

Encroachment
Permit No. EN120195
Type: Other

PERMIT TO DO WORK IN ACCORDANCE WITH CHAPTER 12.08 OF THE LIVERMORE MUNICIPAL CODE AND SPECIFICATIONS AS ADOPTED BY THE CITY OF LIVERMORE AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Permit Fee: $90.00
Inspection Fee: $1,000.00
Bond: $0.00

Total: $1,090.00

P.J
6/18/12

Applicant/Permittee:
Name: Stantec Consulting Services
Address: 3017 Kilgore Rd., Suite 100
Rancho Cordova, Ca., 95670
Phone: 916-861-0400

Contractor:
Name: Wdc Exploration & Wells
Address: 1961 Meeker Ave.
Richmond, Ca. 94804
Phone: 510-236-6282

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE. TO ARRANGE FOR AN INSPECTION, PHONE (925) 960-4500 AT LEAST 24 HOURS BEFORE YOU START WORK.

JOB LOCATION: 1339 Vasco Road, North ****
DESCRIPTION OF WORK: Installation of two (2) Monitoring wells to 20 to 25 FBG along with four soil borings. In the locations ajacent to above referenced site. Well lid to be flush with existing sidewalk/pavement and lid to be locking type. See attached plan with proposed well location.

Length of Excavation: _ L.F. **Width:** _ L.F. **Depth:** _ L.F.

Attention is directed to the General Provisions printed on the reverse side of this permit and to the attached special requirements (to be determined as needed by the Engineering Division).

Prosecution of Work: All work authorized by the permit shall be performed in a workmanlike, diligent, and expeditious manner, and must be completed to the satisfaction of the City Engineer.

Liability and Damages: The permittee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of the failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Livermore, its officers and employees, and save them harmless in every way from all action at law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.

Hold Harmless and Indemnification Agreement: Stantec Consulting Services agrees to defend, indemnify and hold the City of Livermore, elected officials, officers, directors, employees, agents and volunteers harmless from and against any and all loss, liability, damage, including reasonable attorney and expert fees and/or court costs, arising out of or in connection with this agreement, except for the gross negligence and willful misconduct of the City of Livermore, its elected officials, officers, directors, employees, agents and volunteers.

Stantec Consulting Services
Signature of Permittee:

By: _____

Title: Geologist

Date: 7/3/12

Date Work Completed: _____

City Engineer

By: _____

Date of Issue: 6-11-12

Inspector: _____

CITY OF LIVERMORE GENERAL PROVISIONS

1. The permittee shall begin work as authorized under this permit within 45 days from the date of issuance, unless a different date is stated in the permit. If the work is not begun within 45 days or the time stated in the permit, the permit shall become void. The permit shall be valid for a term of 6 months from the date of issuance, or as otherwise stated on the permit, unless discontinued by the use or removal of the encroachment for which the permit was issued.

2. This permit is issued only for that portion of work in the City of Livermore public right-of-way.

3. All construction shall be in accordance with City Standard Details and Specifications.

4. Permittee shall notify Underground Service Alert (U.S.A.) at 800-227-2600 prior to excavation. All underground contractors must have U.S.A. inquiry identification number.

5. Permittee is hereby cautioned that unless otherwise noted herein, traffic signal detector loops, wiring, etc., shall not be disturbed. Request marking from the City of Livermore Street Maintenance Dept. at 960-8020.

6. All excavations shall conform to the requirement of the State of California Division of Occupational Safety and Health.

7. Permittee shall furnish all safeguards and post warning signs in advance of work area for vehicular traffic and shall clear the roadway of any obstructions or debris at the end of each work day. All safety devices shall conform to the latest edition of the State of California "Manual of Warning Signs, Lights, and Devices for Use in Performance of Work Upon Highways".

8. No public road under the jurisdiction of the City Engineer shall be closed to travel by the general public without special permission, in writing, from the City Engineer (Sec. 12.08.180 Livermore Municipal Code). No lane closures will be allowed between 6:00 a.m. and 9:00 a.m. or between 3:30 p.m. and 6:30 p.m. At other times, at least one lane of traffic shall be kept open to the general public.

9. No more than 300 linear feet of continuous excavation shall be opened at one time. Excavate only that length of trench which can be backfilled and compacted to specified requirements the same day. Temporary pavement must be placed the same day.

10. Backfill shall be placed in accordance with the current City Standard Detail G-1.

11. Metal plates of sufficient thickness for legal load traffic or temporary paving, 1½" ,minimum thickness and coated with a "non-skid" material, shall be placed over any unpaved areas at the end of each work day. Temporary pavement must be placed around all edges of said plates. Sidewalk construction areas shall be left in a safe condition.

12. Material excavated from within the City road right-of-way under this permit shall be removed from within the right-of-way and disposed of in a legal manner. (Sec. 12.08.170 Livermore Municipal Code)

13. The right-of-way shall be left clean and orderly daily to the satisfaction of the City Engineer or his representative. The permittee shall give particular attention to maintaining the project in a dust-free condition while performing the various items of work and during non-working periods, including weekends.

14. Job sites left in an unsafe condition will be secured by City personnel and the permittee will be billed for all expenses incurred by the City.

15. Final asphalt concrete surfacing shall be placed within 14 days of completion of each 300 linear feet of excavation. If the edges of the trench have been ravelled prior to final surfacing, the edges shall be re-sawn.

16. Where concrete is placed in a planter strip, score lines, construction joints and expansion joints shall be continued across entire sidewalk area. Where curb, gutter and sidewalk are placed monolithically, the "back edge" of the curb shall be scored.

17. No culverts or storm drains are to be cut or disturbed. Direction of flow and capacity of existing surface water drainage facilities shall not be materially changed.

18. Access to public and private properties adjacent to the public road in which work is authorized shall not be denied by reason of such work. Special measures shall be taken to insure passage for emergency vehicles over and at the site of work at all times.

19. In the event that any future improvement of the road right-of-way necessitates the relocation of the encroachment for which this permit is issued, the permittee shall relocate same at his sole expense.

20. Priority shall be given to operations performed under this contract let by the City of Livermore for certain work at this location. Coordination shall be effected through said Contractor and the Project Representative for the City.

21. Any existing facilities damaged or removed in the course of the work shall be replaced in kind or better, including ground and pavement surfaces, signs, striping, markers, curb, gutter, survey monuments, trees and other vegetation, etc., to the satisfaction of the owner of said facility.

22. In accordance with the Livermore Municipal Code, a cash deposit or surety bond may be required. The deposit placed for this work will be held for 90 days after the final inspection.

PERMITTEE SHALL NOTIFY CITY INSPECTOR AT 960-4500
WITHIN THREE (3) DAYS AFTER WORK IS COMPLETED.

FAILURE TO COMPLY WITH THESE PROVISIONS WILL RESULT IN
THE CITY'S TAKING WHATEVER MEASURES NECESSARY
TO CONFORM TO PERMIT CONDITIONS AND
THE PERMITTEE WILL BE BILLED FOR ALL EXPENSES INCURRED.

City of Livermore
Community Development Department
1052 S. Livermore Avenue
Livermore, CA 94550
(925) 960-4500

Encroachment Permit No. EN120195

SPECIAL REQUIREMENTS APPLICABLE TO WORK ASSOCIATED WITH

JOB LOCATION: 1339 Vasco Road, North ****

DESCRIPTION OF WORK: Installation of two (2) Monitoring wells to 20 to 25 FBG along with four soil borings. In the locations ajacent to above referenced site. Well lid to be flush with existing sidewalk/pavement and lid to be locking type. See attached plan with proposed well location.

1: See Attached Drawing/Plans

2: Traffic control shall be completed per Cal Trans Standards and any additional requirements deemed necessary by the City Engineer.

3: All work shall be completed between the hours of 9 a.m. and 3 p.m.

4: All lane closures/ traffic control shall be done per Cal Trans Standards.

5: Contractor shall repair/replace all damaged curb, gutter and sidewalk damaged as a result of current work being completed per the City Livermore Standard Details.

6: Pedestrian access must be maintained at all times, including if necessary, escorting pedestrians through the work area.

7: All trenchwork and small excavations in the street shall be completed per City Std Detail G-1.

Attachment D
Field Notes

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.230.0600
SITE ADDRESS:	1339 North Vasco Road	START DATE:	7/10/2012
	Livermore, California	DATE PREPARED:	7/9/2012
PREPARED FOR:	Colin Ryan	PREPARED BY:	Amanda Magee

SITE VISITATION REPORT

Name(s) Colin Ryan Date: 7/10/12 Did you call in? (Yes) No

Arrival Time: 7:30 "Departure Time: _____ Who did you call? Damon Brown

Weather Notations: SUN CLOUDY RAIN SNOW Temperature: _____ F

DRUM INVENTORY

1	WATER		CARBON	TOTAL OPEN TOP	3
	SOIL	2	EMPTY	TOTAL BUNG TOP	

HEALTH AND SAFETY ASSESSMENT

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

7:30-Arrived onsite, reviewed HASP, called in to Damon Brown
- Spoke w/ store employee's regarding today's scope of work

8:15-Highway technologies arrives onsite
- Held H&S meeting

8:45-Begin setup of traffic control

9:00- WDC arrives onsite
- Held H&S meeting
- Wait for traffic control to be setup

11:05-Final soil sample taken from GP-4
- Lower casing for water sample + move to GP-5

11:45-Jeff Jones w/ Zone 7 arrives to witness grouting of GP-4
- Still waiting on water in GP-4
- Regulator clears us to grout in his absence, as long as we use tremie pipe

12:20-Rig broke a handle on the control panel.
- They will fix tonight + we will only complete GP-4 + GP-5
- Begin cleanup

12:40-Break for lunch

12:55-Return from lunch

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.230.0600
SITE ADDRESS:	1339 North Vasco Road	START DATE:	7/10/2012
	Livermore, California	DATE PREPARED:	7/9/2012
PREPARED FOR:	Colin Ryan	PREPARED BY:	Amanda Magee

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Date:

1:15-All water samples taken
3:00- Traffic control down, off the street
-Leave site for Sacramento

Day 2 7/11/12

7:30-Arrived onsite, reviewed HASP, called in to Damon Brown, spoke w/Store employees
8:30- Highway Technologies traffic control arrives onsite
-Held H&S meeting
-Begin traffic control setup
9:00- Received phone call from WDC, they have a flat tire & will be late to the job
12:00- WDC arrives onsite
-Held H&S meeting
-Begin setup on GP-6
2:00- All soil samples taken
-No water present in borehole
-will grout w/out water sample to get off the street by 2:30
3:00-Site clean, leave for Sacramento

Day 3 7/12/12

7:30-Arrived onsite, reviewed HASP, spoke w/Store employees
-Called in to Damon Brown
8:30- Highway Technologies arrives onsite
-Held H&S meeting
-Begin traffic control setup
8:50- WDC arrives onsite
-Held H&S meeting
9:15 -Begin setup on GP-7 in the street
11:25- Water & soil samples taken
GP-7-25 was not collected due to saturated sample falling out of sleeve.
-WDC leaves site
-Traffic control begins breaking down equipment
12:00-Site Clean, leave for Kiff Analytical

Attachment E
Soil Boring Logs

PROJECT: **7-Eleven Store # 32266**
LOCATION: **1339 Vasco Rd., Livermore, CA**
PROJECT NUMBER:

WELL/PROBEHOLE/BOREHOLE NO: **GP-4**

DRILLING / INSTALLATION:
STARTED: **7/10/12** COMPLETED:
DRILLING COMPANY: **WDC Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Geoprobe**
SAMPLING EQUIPMENT: **Acetate Sleeve**

NORTHING (ft):
EASTING (ft):
LAT:
LONG:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **23**
WELL DEPTH (ft): **25.0**
STATIC DTW (ft): **Not Encountered**
BOREHOLE DEPTH (ft): **25.0**
WELL CASING DIA. (in): **---**
BOREHOLE DIA. (in): **2**
LOGGED BY: **Colin Ryan**
CHECKED BY: **A. Magee**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Hand Clear to 5' bgs.							
5		CL	**CLAY** ; CL; light brown; high plasticity; hard; moist; no HC odor; (0,5,0,95)		10:40 GP-4-5			0.2	5	
10		CL	**CLAY** ; CL; light brown; high plasticity; hard; moist; no HC odor; (0,5,0,95)		10:45 GP-4-10			0.2	10	Neat Cement Grout
15		CL	**GRAVELLY CLAY** ; CL; brown; high plasticity; soft; moist; no HC odor; (15,0,0,85)		10:55 GP-4-15	20		0.1	15	
20		CL	**CLAY WITH GRAVEL** ; CL; brown; high plasticity; hard; moist; no HC odor; (10,0,0,90)		10:57 GP-4-20			0.2	20	
25		CL	**CLAY WITH GRAVEL** ; CL; brown; high plasticity; hard; moist; no HC odor; (10,0,0,90)		11:05 GP-4-25			0.4	25	
			Borehole terminated at 25 feet.							

GEO FORM 304 GP-4 TO GP-7.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 7/17/12

PROJECT: **7-Eleven Store # 32266**
LOCATION: **1339 Vasco Rd., Livermore, CA**
PROJECT NUMBER:

WELL/PROBEHOLE/BOREHOLE NO: **GP-5**

DRILLING / INSTALLATION:
STARTED: **7/10/12** COMPLETED:
DRILLING COMPANY: **WDC Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Geoprobe**
SAMPLING EQUIPMENT: **Acetate Sleeve**

NORTHING (ft):
LAT:
GROUND ELEV (ft):
INITIAL DTW (ft): **23**
STATIC DTW (ft): **15**
WELL CASING DIA. (in): **---**
LOGGED BY: **Colin Ryan**

EASTING (ft):
LONG:
TOC ELEV (ft):
WELL DEPTH (ft): **25.0**
BOREHOLE DEPTH (ft): **25.0**
BOREHOLE DIA. (in): **2**
CHECKED BY: **A. Magee**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Hand Clear to 5' bgs.						
5		ML	**SILT WITH GRAVEL** ; ML; light brown; low plasticity; firm to soft; moist; no HC odor; (10,0,85,5)		12:05 GP-5-5			0.4	5
10		CL	**CLAY** ; CL; light reddish brown; medium plasticity; soft; moist; no HC odor; (0,0,0,100)		12:07 GP-5-10			0.0	10
15		CL	**CLAY** ; CL; light reddish brown; medium plasticity; hard; moist; no HC odor; (0,0,0,100)		12:10 GP-5-15	20		0.4	15
20		CL	**CLAY** ; CL; reddish brown; high plasticity; very soft; moist; no HC odor; (0,5,0,95)		12:20 GP-5-20			1.0	20
25		CL	**CLAY** ; CL; reddish brown; high plasticity; very soft; wet; no HC odor; (0,0,0,100)		12:25 GP-5-25			0.6	25
			Borehole terminated at 25 feet.						

Borehole Backfill: Neat Cement Grout

GEO FORM 304 GP-4 TO GP-7.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 7/17/12

PROJECT: **7-Eleven Store # 32266**
LOCATION: **1339 Vasco Rd., Livermore, CA**
PROJECT NUMBER:

WELL/PROBEHOLE/BOREHOLE NO: **GP-6**

Stantec

DRILLING / INSTALLATION:
STARTED: **7/11/10** COMPLETED:
DRILLING COMPANY: **WDC Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Geoprobe**
SAMPLING EQUIPMENT: **Acetate Sleeve**

NORTHING (ft): EASTING (ft):
LAT: LONG:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** WELL DEPTH (ft): **25.0**
STATIC DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **25.0**
WELL CASING DIA. (in): **---** BOREHOLE DIA. (in): **2**
LOGGED BY: **Colin Ryan** CHECKED BY: **A. Magee**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Hand Clear to 5' bgs.							
5		ML	**SILT** ; ML; brown; high plasticity; soft; moist; no HC odor; (0,0,100,0)		1:00 GP-6-5			0.2	5	
10		CL	**CLAY** ; CL; brown; medium plasticity; hard; moist; no HC odor; (0,5,0,95)		1:05 GP-6-10			0.0	10	Neat Cement Grout
15		CL	**CLAY** ; CL; brown; high plasticity; soft to firm; moist; no HC odor; (0,0,0,100)		1:08 GP-6-15	20		1.2	15	
20		CL	**CLAY** ; CL; light brown; high plasticity; soft to firm; moist; no HC odor; (0,0,0,100)		1:10 GP-6-20			0.0	20	
25		CL	**CLAY** ; CL; light brown; high plasticity; firm; no HC odor; (0,0,0,100)		1:12 GP-6-25			0.0	25	
			Borehole terminated at 25 feet.							

GEO FORM 304 GP-4 TO GP-7.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 7/17/12

PROJECT: **7-Eleven Store # 32266**
LOCATION: **1339 Vasco Rd., Livermore, CA**
PROJECT NUMBER:

WELL/PROBEHOLE/BOREHOLE NO: **GP-7**

Stantec

DRILLING / INSTALLATION:
STARTED: **7/12/12** COMPLETED:
DRILLING COMPANY: **WDC Drilling**
DRILLING EQUIPMENT: **Direct Push**
DRILLING METHOD: **Geoprobe**
SAMPLING EQUIPMENT: **Acetate Sleeve**

NORTHING (ft):
EASTING (ft):
LAT:
LONG:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): **12**
WELL DEPTH (ft): **25.0**
STATIC DTW (ft): **Not Encountered**
BOREHOLE DEPTH (ft): **25.0**
WELL CASING DIA. (in): **---**
BOREHOLE DIA. (in): **2**
LOGGED BY: **Colin Ryan**
CHECKED BY: **A. Magee**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Hand Clear to 5' bgs.							
5		CL	**CLAY** ; CL; light brown; high plasticity; soft; moist; no HC odor; (0,0,0,100)		9:50 GP-7-5			0.0	5	
10		CL	**CLAY** ; CL; light brown; medium plasticity; hard; moist; no HC odor; (0,0,0,100)		9:55 GP-7-10			0.0	10	
		SP	**SAND** ; SP; brown; medium-grained; loose; wet; no HC odor; (0,80,20,0)							
		CL	**CLAY WITH GRAVEL** ; CL; light brown; medium plasticity; very hard to firm; no HC odor; (5,0,0,95)			16				Neat Cement Grout
15					10:00 GP-7-15			0.0	15	
20		CL	**CLAY** ; CL; light brown; medium plasticity; very hard to firm; no HC odor; (0,0,0,100)		10:20 GP-7-20			0.0	20	
			No Recovery, saturated soils fell out of acetate sleeve.							
25			Borehole terminated at 25 feet.						25	

GEO FORM 304 GP-4 TO GP-7.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 7/17/12

Attachment F
Certified Analytical Laboratory Reports and Chain-of-Custody Documentation

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Laboratory Results

Damon Brown
Stantec Consulting Services Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 19 Soil Samples and 3 Water Samples
Project Name : 7-Eleven Store #32266
Project Number : 211502037.230.0400

Dear Mr. Brown,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Subject : 19 Soil Samples and 3 Water Samples
Project Name : 7-Eleven Store #32266
Project Number : 211502037.230.0400

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

GP-4W was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-4-5** Matrix : Soil Lab Number : 81894-01
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:00
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:00
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:00
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:00
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 22:00
1,2-Dichloroethane-d4 (Surr)	97.7		% Recovery	EPA 8260B	07/12/12 22:00
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	07/12/12 22:00

Sample : **GP-4-10** Matrix : Soil Lab Number : 81894-02
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:40
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:40
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:40
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:40
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:40
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 21:40
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/12/12 21:40
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	07/12/12 21:40

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-4-15** Matrix : Soil Lab Number : 81894-03
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:37
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:37
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:37
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:37
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 21:37
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 21:37
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/12/12 21:37
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	07/12/12 21:37

Sample : **GP-4-20** Matrix : Soil Lab Number : 81894-04
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:45
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:45
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:45
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:45
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:45
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 23:45
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	07/12/12 23:45
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	07/12/12 23:45

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-4-25** Matrix : Soil Lab Number : 81894-05
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:15
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:15
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:15
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:15
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:15
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 22:15
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/12/12 22:15
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	07/12/12 22:15

Sample : **GP-5-5** Matrix : Soil Lab Number : 81894-06
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:19
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:19
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:19
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:19
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:19
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 22:19
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	07/12/12 22:19
Toluene - d8 (Surr)	93.7		% Recovery	EPA 8260B	07/12/12 22:19

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-5-10** Matrix : Soil Lab Number : 81894-07
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:51
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:51
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:51
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:51
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:51
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 22:51
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/12/12 22:51
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	07/12/12 22:51

Sample : **GP-5-15** Matrix : Soil Lab Number : 81894-08
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:55
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:55
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:55
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 22:55
Methyl-t-butyl ether (MTBE)	**0.024**	0.0050	mg/Kg	EPA 8260B	07/12/12 22:55
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 22:55
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	07/12/12 22:55
Toluene - d8 (Surr)	93.8		% Recovery	EPA 8260B	07/12/12 22:55

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-5-20** Matrix : Soil Lab Number : 81894-09
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:34
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:34
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:34
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:34
Methyl-t-butyl ether (MTBE)	**0.056**	0.0050	mg/Kg	EPA 8260B	07/12/12 23:34
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 23:34
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	07/12/12 23:34
Toluene - d8 (Surr)	93.1		% Recovery	EPA 8260B	07/12/12 23:34

Sample : **GP-5-25** Matrix : Soil Lab Number : 81894-10
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:28
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:28
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:28
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/12 23:28
Methyl-t-butyl ether (MTBE)	**0.024**	0.0050	mg/Kg	EPA 8260B	07/12/12 23:28
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/12 23:28
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	07/12/12 23:28
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	07/12/12 23:28

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-6-5** Matrix : Soil Lab Number : 81894-11
Sample Date :07/11/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:14
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:14
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:14
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:14
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:14
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:14
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	07/13/12 00:14
Toluene - d8 (Surr)	93.9		% Recovery	EPA 8260B	07/13/12 00:14

Sample : **GP-6-10** Matrix : Soil Lab Number : 81894-12
Sample Date :07/11/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:04
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:04
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:04
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:04
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:04
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:04
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/13/12 00:04
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	07/13/12 00:04

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-6-15** Matrix : Soil Lab Number : 81894-13
Sample Date :07/11/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:21
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:21
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:21
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:21
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:21
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:21
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	07/13/12 00:21
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	07/13/12 00:21

Sample : **GP-6-20** Matrix : Soil Lab Number : 81894-14
Sample Date :07/11/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:55
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	07/13/12 00:55
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	07/13/12 00:55

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-6-25** Matrix : Soil Lab Number : 81894-15
Sample Date :07/11/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:40
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:40
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:40
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:40
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:40
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:40
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/13/12 00:40
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	07/13/12 00:40

Sample : **GP-7-5** Matrix : Soil Lab Number : 81894-16
Sample Date :07/12/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 00:55
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 00:55
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	07/13/12 00:55
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	07/13/12 00:55

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-7-10** Matrix : Soil Lab Number : 81894-17
Sample Date :07/12/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:36
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:36
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:36
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:36
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:36
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 01:36
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	07/13/12 01:36
Toluene - d8 (Surr)	93.2		% Recovery	EPA 8260B	07/13/12 01:36

Sample : **GP-7-15** Matrix : Soil Lab Number : 81894-18
Sample Date :07/12/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:21
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:21
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:21
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:21
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 01:21
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 01:21
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/13/12 01:21
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	07/13/12 01:21

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-7-20** Matrix : Soil Lab Number : 81894-19
Sample Date :07/12/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 10:35
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 10:35
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 10:35
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 10:35
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/12 10:35
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/12 10:35
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/13/12 10:35
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	07/13/12 10:35

Sample : **GP-4W** Matrix : Water Lab Number : 81894-20
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 01:13
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 01:13
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 01:13
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 01:13
Methyl-t-butyl ether (MTBE)	**13**	0.50	ug/L	EPA 8260B	07/14/12 01:13
TPH as Gasoline	**75**	50	ug/L	EPA 8260B	07/14/12 01:13
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	07/14/12 01:13
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/14/12 01:13

KIFF Analytical LLC

Report Number : 81894
Date : 07/16/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.230.0400**

Sample : **GP-5W** Matrix : Water Lab Number : 81894-21
Sample Date :07/10/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 05:35
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 05:35
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 05:35
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 05:35
Methyl-t-butyl ether (MTBE)	**350**	0.50	ug/L	EPA 8260B	07/14/12 05:35
TPH as Gasoline	**95**	50	ug/L	EPA 8260B	07/14/12 05:35
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	EPA 8260B	07/14/12 05:35
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	07/14/12 05:35

Sample : **GP-7W** Matrix : Water Lab Number : 81894-22
Sample Date :07/12/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 00:40
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 00:40
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 00:40
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 00:40
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/14/12 00:40
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/14/12 00:40
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	07/14/12 00:40
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	07/14/12 00:40

Report Number : 81894

Date : 07/16/2012

QC Report : Method Blank Data

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.230.0400**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/2012
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/2012
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/2012
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/2012
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/12/2012
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/12/2012
1,2-Dichloroethane-d4 (Surr)	98.9		%	EPA 8260B	07/12/2012
Toluene - d8 (Surr)	95.3		%	EPA 8260B	07/12/2012
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/2012
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/2012
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/2012
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/2012
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/13/2012
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	07/13/2012
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	07/13/2012
Toluene - d8 (Surr)	99.3		%	EPA 8260B	07/13/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/13/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/13/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/13/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/13/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/13/2012
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/13/2012
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	07/13/2012
Toluene - d8 (Surr)	101		%	EPA 8260B	07/13/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 81894

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/16/2012

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.230.0400**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
	81894-01	<0.0050	0.0394	0.0382	0.0331	0.0314	mg/Kg	EPA 8260B	7/12/12	84.1	82.2	2.28	67.9-120	25
Ethylbenzene														
	81894-01	<0.0050	0.0394	0.0382	0.0369	0.0348	mg/Kg	EPA 8260B	7/12/12	93.7	91.2	2.64	65.5-127	25
Methyl-t-butyl ether														
	81894-01	<0.0050	0.0394	0.0382	0.0328	0.0302	mg/Kg	EPA 8260B	7/12/12	83.3	79.1	5.18	57.0-122	25
P + M Xylene														
	81894-01	<0.0050	0.0394	0.0382	0.0348	0.0331	mg/Kg	EPA 8260B	7/12/12	88.5	86.7	2.07	62.5-124	25
Toluene														
	81894-01	<0.0050	0.0394	0.0382	0.0347	0.0329	mg/Kg	EPA 8260B	7/12/12	88.2	86.3	2.23	65.7-120	25
Benzene														
	81892-03	<0.0050	0.0389	0.0385	0.0359	0.0351	mg/Kg	EPA 8260B	7/13/12	92.3	91.3	1.10	67.9-120	25
Ethylbenzene														
	81892-03	<0.0050	0.0389	0.0385	0.0303	0.0308	mg/Kg	EPA 8260B	7/13/12	77.9	80.2	2.85	65.5-127	25
Methyl-t-butyl ether														
	81892-03	<0.0050	0.0389	0.0385	0.0407	0.0362	mg/Kg	EPA 8260B	7/13/12	104	94.1	10.5	57.0-122	25
P + M Xylene														
	81892-03	<0.0050	0.0389	0.0385	0.0292	0.0298	mg/Kg	EPA 8260B	7/13/12	74.9	77.4	3.17	62.5-124	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 81894

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/16/2012

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.230.0400**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene														
	81892-03	<0.0050	0.0389	0.0385	0.0330	0.0324	mg/Kg	EPA 8260B	7/13/12	84.9	84.2	0.855	65.7-120	25
Benzene														
	81876-05	4.2	40.0	40.0	42.8	42.4	ug/L	EPA 8260B	7/13/12	96.5	95.5	1.00	80-120	25
Ethylbenzene														
	81876-05	<0.50	40.0	40.0	39.3	38.1	ug/L	EPA 8260B	7/13/12	98.2	95.2	3.00	80-120	25
Methyl-t-butyl ether														
	81876-05	9.4	40.0	40.0	50.3	51.6	ug/L	EPA 8260B	7/13/12	102	105	3.19	69.7-121	25
P + M Xylene														
	81876-05	<0.50	40.0	40.0	38.9	38.0	ug/L	EPA 8260B	7/13/12	97.3	94.9	2.54	76.8-120	25
Toluene														
	81876-05	<0.50	40.0	40.0	40.8	40.2	ug/L	EPA 8260B	7/13/12	102	100	1.30	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.230.0400**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0387	mg/Kg	EPA 8260B	7/12/12	88.0	67.9-120
Ethylbenzene	0.0387	mg/Kg	EPA 8260B	7/12/12	98.0	65.5-127
Methyl-t-butyl ether	0.0387	mg/Kg	EPA 8260B	7/12/12	88.3	57.0-122
P + M Xylene	0.0387	mg/Kg	EPA 8260B	7/12/12	93.2	62.5-124
Toluene	0.0387	mg/Kg	EPA 8260B	7/12/12	91.4	65.7-120
Benzene	0.0381	mg/Kg	EPA 8260B	7/13/12	99.3	67.9-120
Ethylbenzene	0.0381	mg/Kg	EPA 8260B	7/13/12	100	65.5-127
Methyl-t-butyl ether	0.0381	mg/Kg	EPA 8260B	7/13/12	95.1	57.0-122
P + M Xylene	0.0381	mg/Kg	EPA 8260B	7/13/12	98.4	62.5-124
Toluene	0.0381	mg/Kg	EPA 8260B	7/13/12	97.7	65.7-120
Benzene	39.9	ug/L	EPA 8260B	7/13/12	97.4	80-120
Ethylbenzene	39.9	ug/L	EPA 8260B	7/13/12	99.4	80-120
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	7/13/12	99.6	69.7-121
P + M Xylene	39.9	ug/L	EPA 8260B	7/13/12	98.0	76.8-120
TPH as Gasoline	505	ug/L	EPA 8260B	7/13/12	93.1	70.0-130
Toluene	39.9	ug/L	EPA 8260B	7/13/12	103	80-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Chain of Custody Number: 81894

Stantec Chain-of Custody Record

Field Office: 077 Sacramento
Address: 3017 Kilgore Road, Suite 100
Rancho Cordova, CA

☐ Additional documents are attached, and are part of this Record.
Job Name: 7-Eleven Store #32266
Location: 1339 North Vasco Road
Livermore, CA

Project # 211502037.230 Task # 0400
Project Manager Damon Brown
Laboratory Kiff Analytical
Turnaround Time 2-day

Sampler's Name Colin Ryan
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg / BTEX / MtBE- EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates by EPA 8260B	1,2 DCA - 8260B	Comments/ Instructions	Number of Containers	
GP-4-5	7/10/12	10:40	Soil		x										1	01
GP-4-10		10:45			X										1	02
GP-4-15		10:55			X										1	03
GP-4-20		10:57			X										1	04
GP-4-25		11:05			X										1	05
GP-5-5		12:05			X										1	06
GP-5-10		12:07			X										1	07
GP-5-15		12:10			X										1	08
GP-5-20		12:20			X										1	09
GP-5-25	↓	12:25			X										1	10
GP-6-5	7/11/12	1:00	↓		X										1	11

Special Instructions/Comments
Global ID #T10000001067
email EDD to debbie.lichtenberger@stantec.com
email lab report to amanda.magee@stantec.com / damon.brown@stantec.com / debbie.lichtenberger@stantec.com

Relinquished by:
Sign
Print Colin Ryan
Company Stantec
Time 12:00 Date 7/12/12

Received by:
Sign
Print
Company
Time Date

Relinquished by:
Sign
Print
Company
Time Date

Received by: TJB
Sign
Print Timothy Bacino
Company Kiff Analytical LLC
Time 1330 Date 071212

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Client: Statnec
Client Contact: Damon Brown
Client Phone: (916) 861-0400 ext. 230

Page 18 of 21

SECOR CUSTREC Rev. 2/99

Date: 7/12/12 Page 1 of 3

Chain of Custody Number: 81894

Stantec Chain-of Custody Record

Field Office: 077 Sacramento
Address: 3017 Kilgore Road, Suite 100
Rancho Cordova, CA

☐ Additional documents are attached, and are part of this Record.
Job Name: 7-Eleven Store #32266
Location: 1339 North Vasco Road
Livermore, CA

Project # 211502037.230 Task # 0400
Project Manager Damon Brown
Laboratory Kiff Analytical
Turnaround Time 2-day

Sampler's Name Colin Ryan
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCID	TPHg / BTEX / MtBE- EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates by EPA 8260B	1,2 DCA - 8260B	Comments/ Instructions	Number of Containers	
GP-6-10	7/11/12	1:05	Soil		x										1	12
GP-6-15	↓	1:08	↓		X										1	13
GP-6-20		1:10			X										1	14
GP-6-25	↓	1:12			X										1	15
GP-7-5	7/12/12	9:50			X										1	16
GP-7-10	↓	9:55			X										1	17
GP-7-15		10:00			X										1	18
GP-7-20	↓	10:20	↓		X										1	19
~~GP-7-25~~																

Special Instructions/Comments
Global ID #T10000001067
email EDD to debbie.lichtenberger@stantec.com
email lab report to amanda.magee@stantec.com / damon.brown@stantec.com / debbie.lichtenberger@stantec.com

Relinquished by:
Sign
Print Colin Ryan
Company Stantec
Time 12:00 Date 7/12/12

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Received by: TJB
Sign
Print Timothy Boomer
Company Kiff Analytical LLC
Time 1330 Date 071212

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Client: Statnec
Client Contact: Damon Brown
Client Phone: (916) 861-0400 ext. 230

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SECOR CUSTREC Rev. 2/99

Date: 7/12/12 Page 2 of 3

Chain of Custody Number: 81894

Stantec Chain-of Custody Record

Field Office: 077 Sacramento
Address: 3017 Kilgore Road, Suite 100
Rancho Cordova, CA

☐ Additional documents are attached, and are part of this Record.
Job Name: 7-Eleven Store #32266
Location: 1339 North Vasco Road
Livermore, CA

Project # 211502037.230 Task # 0400
Project Manager Damon Brown
Laboratory Kiff Analytical
Turnaround Time 2-day

Sampler's Name Colin Ryan
Sampler's Signature

Sample ID	Date	Time	Matrix	HCID	TPHg / BTEX / MtBE- EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates by EPA 8260B	1,2 DCA - 8260B	Comments/ Instructions	Number of Containers	
GP-4W	7/10/12	12:50	Water		x										4	20
GP-5W	7/10/12	1:25	Water		X										4	21
GP-6W	7/															
GP-7W	7/12/12	10:40	Water		X										4	22

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SECOR CUSTREC Rev. 2/99

Date: 7/12/12 Page 3 of 3

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER: TJB (Initials)

SRG#: 81894 Date: 071212

Project ID: 7-Eleven Store #32266

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No	Dated? ☒ Yes	☐ No		
Is sampler name legibly indicated on COC?	☒ Yes	☐ No		
Is analysis or hold requested for all samples?	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs?	☐ Yes	☐ No, Whiteout	☒ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 5.2 Therm. ID# IR-3 Initial TJB Date/Time 071212/1320 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No	☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present		
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☒ Yes, on sample containers	☐ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		
Does any sample contain product, have strong odor or are otherwise suspected to be hot?	☐ Yes	☒ No		

Receipt Details

Matrix SO	Container type Sleeve	# of containers received 19
Matrix WA	Container type VOA	# of containers received 12
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 071212 Time: 1330

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	

COMMENTS: Sediment in samples -20 and -22. Bubbles in samples -20 (all VOAs), -21 (VOA 4 of 4). TJB 071212 1434