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

March 23, 2012

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

RE: **Enclosed Quarterly Groundwater Monitoring Report, First Quarter 2012**
7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA 94551
Stantec Project #:211502037.230.0506

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).

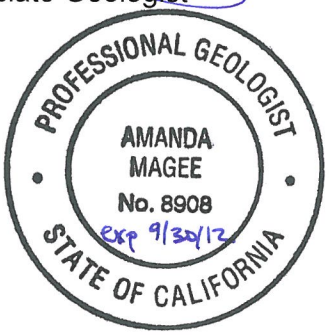
We declare, under penalty of perjury, that the information and/or recommendations contained in the attached assessment report are true and correct to best of our knowledge.

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.

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

Quarterly Groundwater Monitoring Report
First Quarter 2012

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

Stantec Project No.: 211502037.230.0506

Submitted to:
Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Prepared on behalf of:
7-Eleven, Inc.
Mr. Jose Rios
P.O. Box 711
Dallas, TX 75221-0711

March 23, 2012

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

DATE: March 23, 2012

7-ELEVEN, INC. QUARTERLY REPORT

Store Number:	**7-Eleven Store #32266**
Site Address:	1339 North Vasco Road, Livermore, CA 94551
7-Eleven Contact:	Mr. Jose Rios
Consulting Company:	Stantec Consulting Services Inc. – Mr. Damon Brown
Stantec Project No.:	211502037.230.0506
Primary Agency:	Alameda County Environmental Health Services (ACEHS)

WORK PERFORMED THIS PERIOD [First Quarter 2012]

1. Conducted quarterly groundwater monitoring and sampling on January 20, 2012, and generated the quarterly report.
2. Submitted revised work plan to ACEHS for additional assessment.

WORK PROPOSED FOR NEXT PERIOD [Second Quarter 2012]

1. Perform quarterly groundwater monitoring and sampling during second quarter 2012, and prepare the quarterly report.
2. Conduct additional offsite assessment per submitted work plan.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000-gallon gasoline underground storage tank (UST) and one 10,000-gallon gasoline UST (Figures 1 and 2). Current groundwater monitoring and sampling data are summarized in Table 1, and presented on Figures 2 and 3. Historical groundwater monitoring and sampling results are summarized in Table 2. The well completion details are summarized in Table 3. A groundwater gradient and flow direction diagram is presented as Figure 4 and summarized in Table 4.

Site Information

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, Three wells- MW-1, MW-2, and MW-3
Are Liquid Phase Hydrocarbons Present On-site:	No
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	Three water supply wells (2,000 feet north, south, and southwest of site)
Current Remediation Techniques:	None
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-11 to Q1-12 (Measured Below Top of Casing)	MW-1, 7.88 to 8.51 feet

Current Quarter Monitoring Data	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Three wells- MW-1 through MW-3
Dissolved Oxygen Concentrations Measured In:	Three wells- MW-1 through MW-3
Depth to Groundwater (DTW) (Measured Below Top of Casing)	8.51 to 9.57 feet
Average Change in Groundwater Elevation Since Last Event:	0.22 foot increase
Groundwater Flow Direction and Gradient:	West @ 0.009 foot per foot (Figure 2)
Current Quarter Analytical Data	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	Not Detected, <50 μg/L
Maximum Benzene Concentrations	Not Detected, <0.50 μg/L
Maximum MtBE Concentrations	MW-3, 1,100 μg/L
Maximum TBA Concentrations	MW-3, 58 μg/L

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 11 four-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. 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, a 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. The work plan was subsequently approved by the ACEHS 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.

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 foot bgs in monitoring wells MW-1, MW-2, and MW-3 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in the wells using a YSI Model Pro20 dissolved oxygen meter equipped with a down hole sensor.

Well purging and sampling equipment was thoroughly cleaned prior to purging and sampling the well. The sampling procedure for the wells included measuring the water level and purging of approximately three casing volumes of water (or to dryness). The equipment and purging methods used for the current sampling event are noted on the field data sheets in Attachment A. During purging, temperature, pH, and electrical conductivity were monitored. After purging, the water level was allowed to recover to 80% of the original level prior to collection of the water sample. Groundwater samples were collected using a disposable Teflon® bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California state-certified laboratory. Copies of the field notes are in Attachment A.

GROUNDWATER SAMPLE ANALYSES AND RESULTS

The groundwater samples collected from MW-1, MW-2, and MW-3 were analyzed for the presence of BTEX, TPHg, MtBE, TBA, DIPE, EtBE, and TAME by EPA Method 8260B. The certified laboratory analytical report and chain-of-custody documentation are presented as Attachment B.

Groundwater analytical results are presented on Figure 3, and are summarized in Tables 1 and 2.

PURGE AND RINSATE WATER DISPOSAL

Water generated during well sampling and equipment cleaning was pumped into a Stantec truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental to DeMenno Kerdoon in Compton, California, for disposal.

The results of this quarterly groundwater monitoring report 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.

If you have any questions or comments regarding the contents of this report, please contact the undersigned at (916) 861-0400.

Sincerely,
Stantec Consulting Services Inc.

Prepared by:

Colin Ryan
Geologic Project Specialist

Reviewed by:

Damon Brown
Senior Geologic Consultant
Project Manager

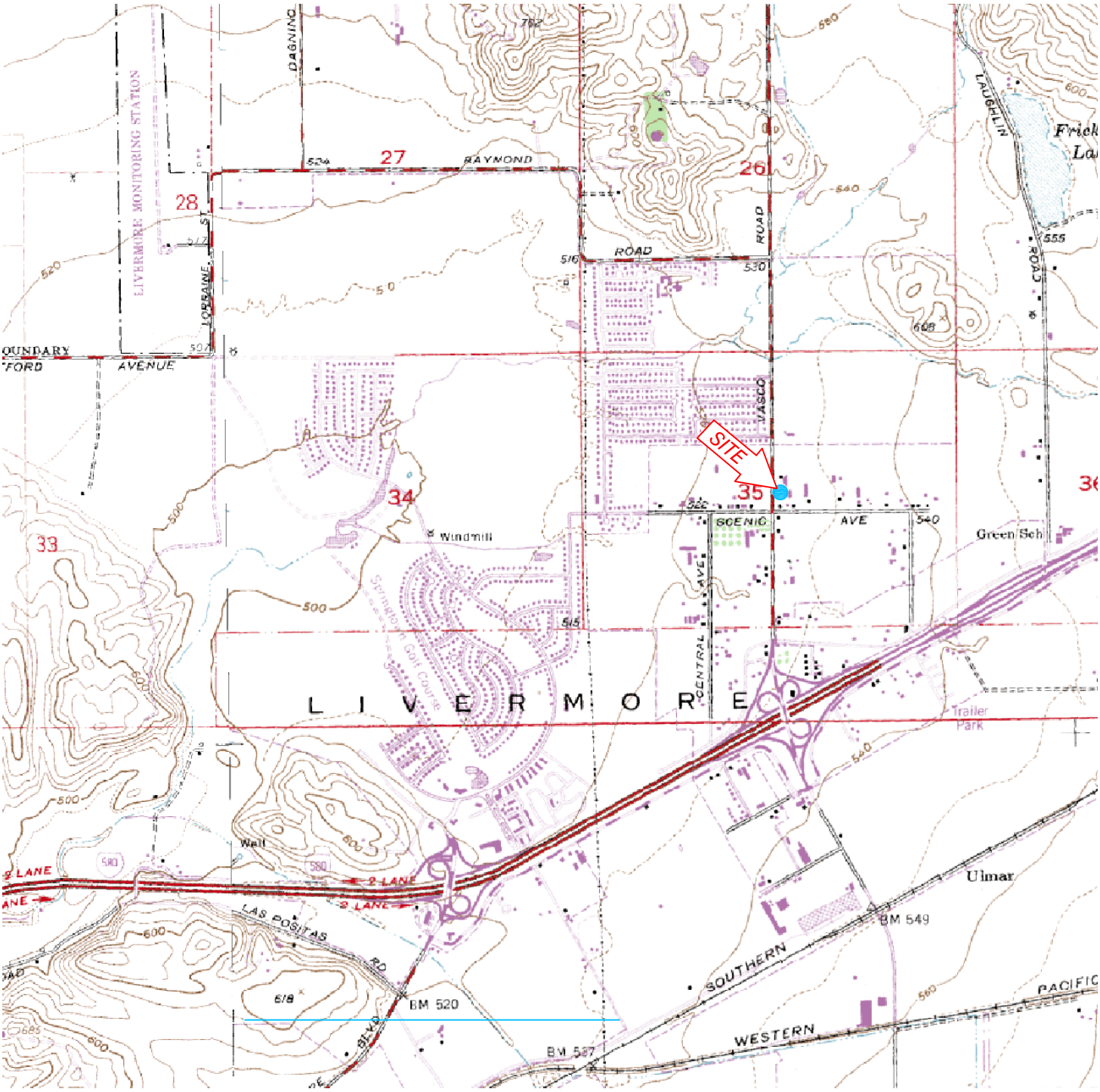
Reviewed by:

Amanda Magee, P.G.
Associate Geologist

ATTACHMENTS
Figures
Tables
Attachment A – Field Notes
Attachment B – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

c: John Wainwright, Stantec, 308 East 4500 South, Suite 100, Murray, Utah 84107-3957

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

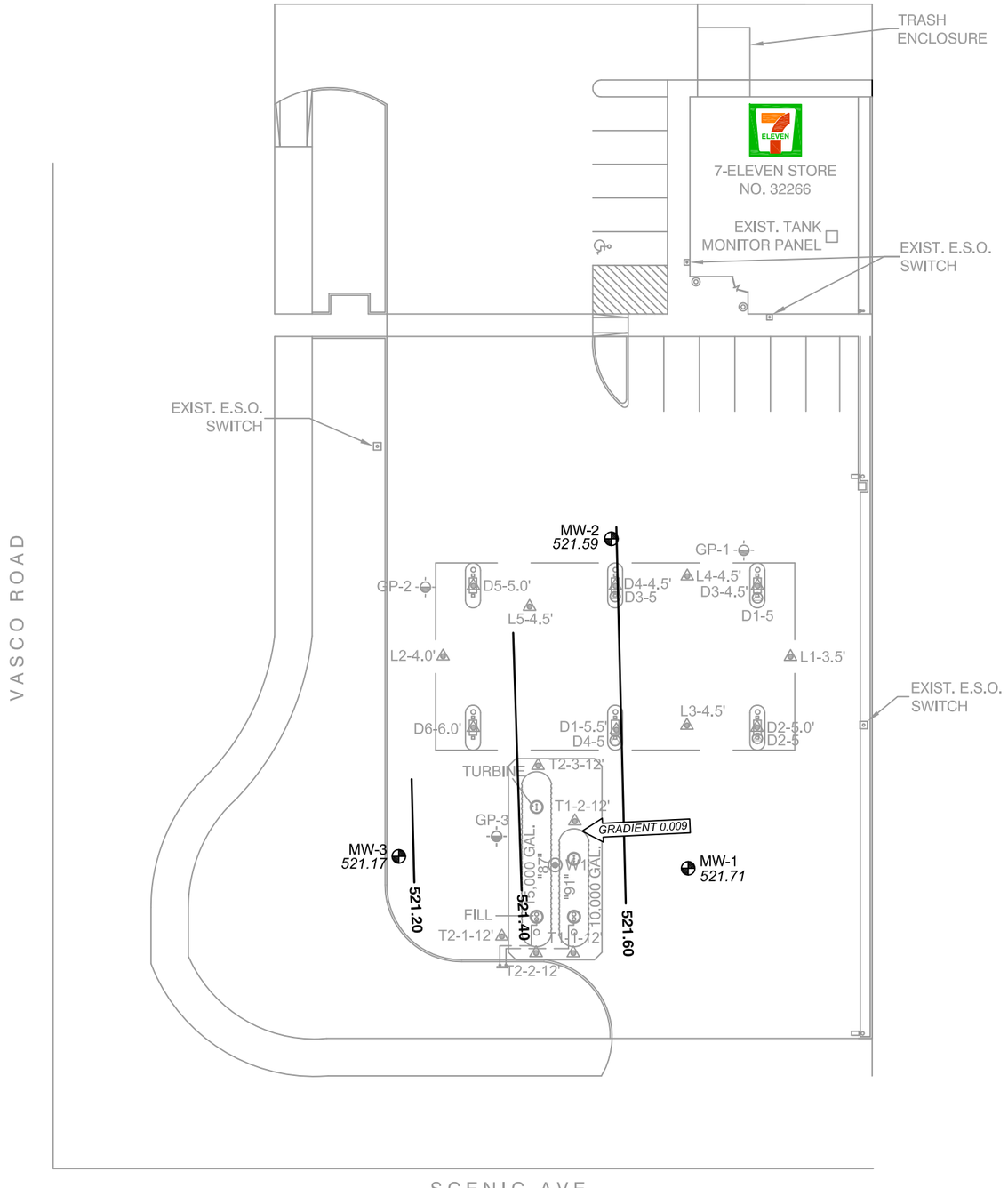
STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

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



LEGEND:

MW-1	GROUNDWATER MONITORING WELL
W1	UST EXCAVATION WATER SAMPLE LOCATION
GP-1	GEOPROBE SAMPLE LOCATION
L5-4.5'	2008 SOIL SAMPLE LOCATION
D1-5	2005 SOIL SAMPLE LOCATION
GRADIENT	APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
521.20	GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
521.71	GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 30 60

APPROXIMATE SCALE IN FEET

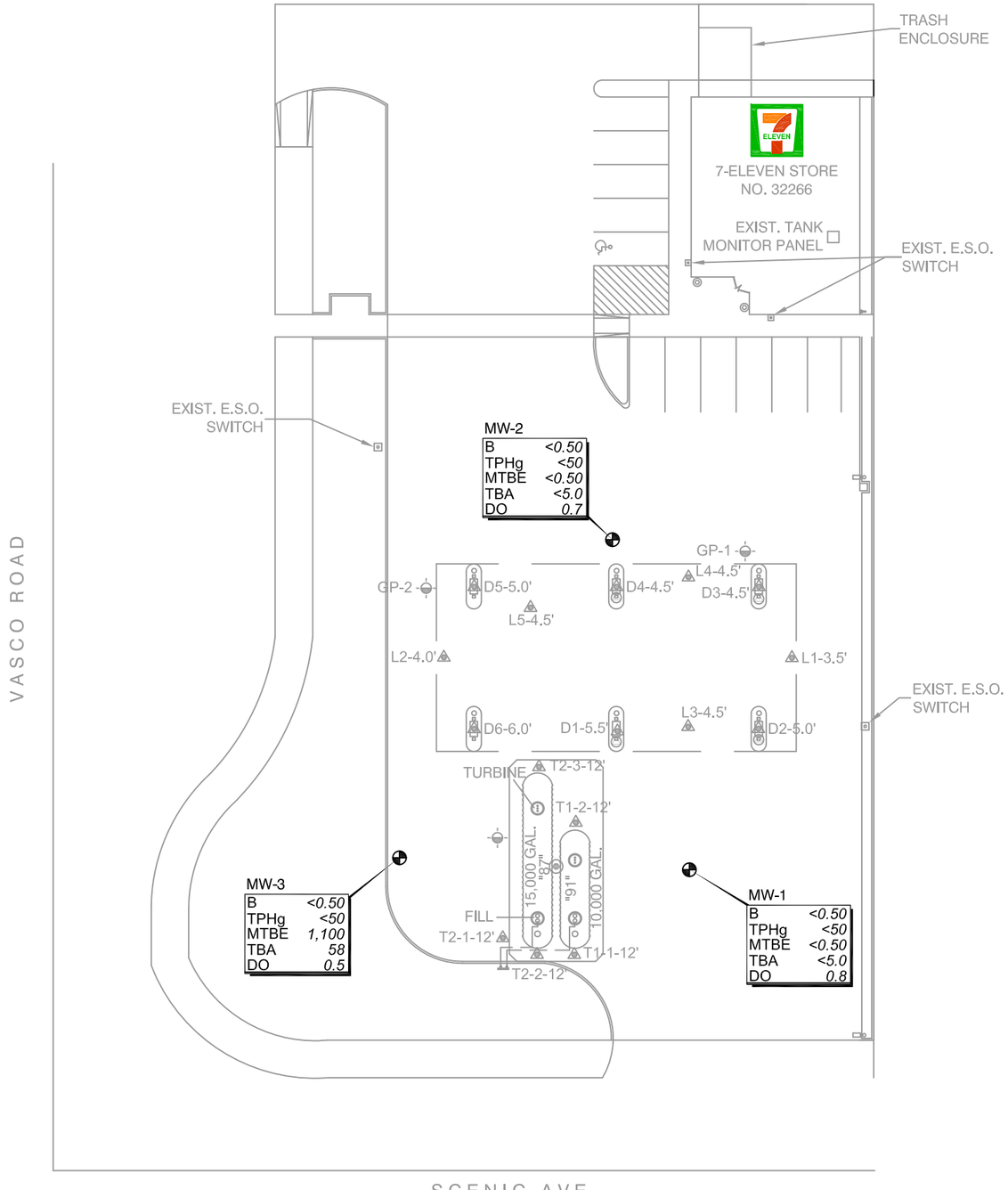
Stantec

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

GROUNDWATER ELEVATION CONTOUR MAP JANUARY 20, 2012

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	PH	EKS	02/27/12



LEGEND:

MW-1	GROUNDWATER MONITORING WELL
W1	UST EXCAVATION WATER SAMPLE LOCATION
GP-1	GEOPROBE SAMPLE LOCATION
L5-4.5'	2008 SOIL SAMPLE LOCATION
D1-5	2005 SOIL SAMPLE LOCATION
B	BENZENE (µg/L)
TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (µg/L)
MtBE	METHYL TERTIARY BUTYL ETHER (µg/L)
TBA	TERTIARY BUTYL ALCOHOL (µg/L)
µg/L	MICROGRAMS PER LITER

N

0 30 60

APPROXIMATE SCALE IN FEET

Stantec

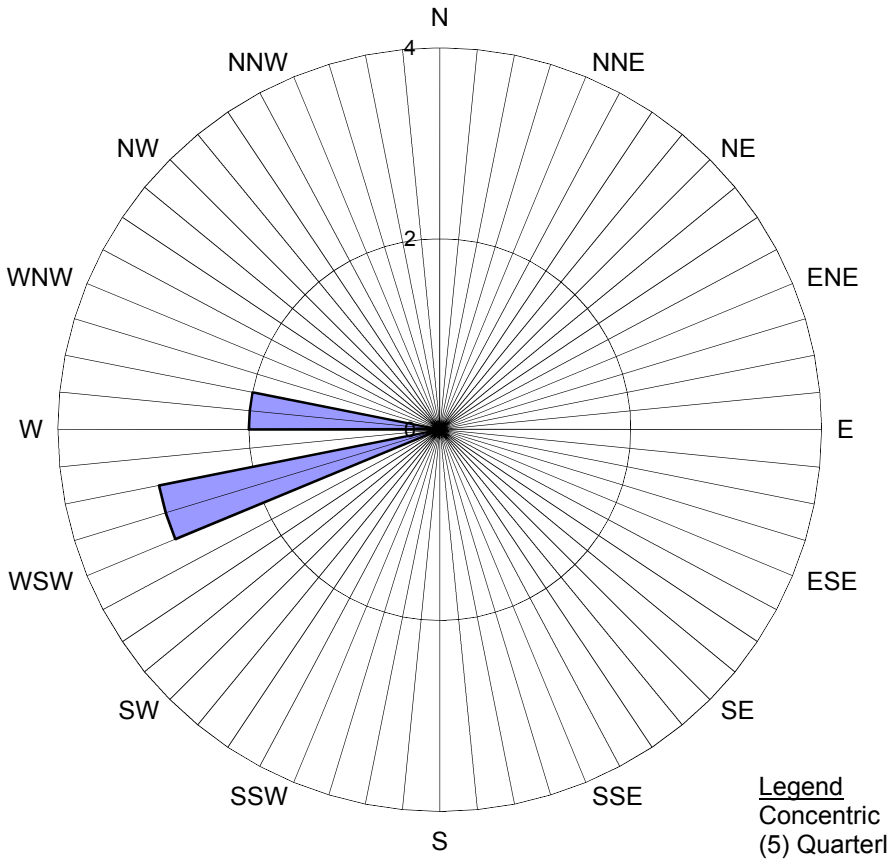
FOR: STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

GROUNDWATER HYDROCARBON CONCENTRATION MAP JANUARY 20, 2012

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211502037	STA	PH	EKS	02/27/12

Figure 4
Groundwater Flow Direction Rose Diagram
7-Eleven #32266
1339 North Vasco, Livermore, California



Legend
Concentric Circles represent
(5) Quarterly Montoring Event
1st Quarter 2011 through 1st Quarter 2012

Tables

TABLE 1
First Quarter 2012 Groundwater Monitoring and Analytical Data

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

Well ID/ Elevation (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)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-1 530.22	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
MW-2 530.55	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
MW-3 530.74	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

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
TOC = Top of casing elevation in feet above mean sea level
ug/L = micrograms per Liter or parts-per-billion
mg/L = milligrams per liter
< = Not detected above laboratory reporting limit

Notes

a = Matrix Spike/Matrix Spike Duplicate for the analyte MtBE were affected by the analyte concentrations already present in the un-spike sample.

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**	--	--	--		--	--	--	--
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
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
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

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.

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	***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

Table 4
Groundwater Gradient and Flow Direction

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

Well No.	Monitoring Date	DTW (ft bgs)	Groundwater Gradient (feet per foot)	Groundwater Flow Direction															
				N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
MW-1	03/16/11	8.07	0.008	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	05/26/11	7.88	0.010	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	08/09/11	8.30	0.008	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
	10/17/11	8.27	0.008	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0
	01/20/12	8.51	0.009	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
Average Values		**8.21**	**0.009**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**2**	**0**	**0**	**0**
Minumum Values		**7.88**	**0.008**																
Maximum Values		**8.51**	**0.010**																

Explanation

TOC = Top of Casing (elevation in feet above mean sea level)
DTW = Depth to water below grade surface as measured from TOC
Number of Events **5** Events

Attachment A
Field Notes

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.220.0700
SITE ADDRESS:	1339 North Vasco Road	START DATE:	1/20/12
	Livermore, California	DATE PREPARED:	1/12/2012
PREPARED FOR:	Brian Branscum	PREPARED BY:	Colin Ryan

SITE VISITATION REPORT

Name(s) BRIAN BRANSCUM Date: 1/20/12 Did you call in? (Yes) No

Arrival Time: 0845 "Departure Time: 1130 Who did you call? Colin Ryan

Weather Notations: SUN CLOUDY RAIN SNOW Temperature 40-50's F

DRUM INVENTORY

1	HAZ WASTE				
1/2	WATER	0	CARBON	TOTAL OPEN TOP	4
0	SOIL	2 1/2	EMPTY	TOTAL BUNG TOP	0

HEALTH AND SAFETY ASSESSMENT

PPE, HASP, Hospital Route, Vehicle/Foot Traffic, Delivery Trucks, Slips/Trips/Falls, Scope of Work

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0830 - 0845 - Truck inspection, drove to site.
0845 - 0915 - Tailgate meeting, started paperwork, decon. & cal. equipment.
0915 - 0940 - Opened, then guaged wells per guaging form.
0940 - 1100 - Purged, then sampled wells guaged.
1100 - 1115 - Released purge H_2O from truck to onsite 55-gal drums.
1115 - 1130 - Packed up equipment, finished paperwork.
1130 - 1300 - Drove home.

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.220.0700
SITE ADDRESS:	1339 North Vasco Road	START DATE:	1/20/12
	Livermore, California	DATE PREPARED:	1/12/2012
PREPARED FOR:	Brian Branscum	PREPARED BY:	Colin Ryan

GROUNDWATER GAUGING FORM

MEASURED TO TOC

WELL I.D.	CONST. DTB	WELL DIAM.	WELL ELEV. TOC	DTB	DTW	DTP/PT	D.O. (mg/L)	TIME	COMMENTS Please note if well needs locking cap or street box repair
MW-1	20	2"		18.89	8.51	/	0.8	0930	
MW-2	20	2"		19.08	8.96	/	0.7	0935	
MW-3	20	2"		20.05	9.57	/	0.5	0940	

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 | PURGED BY: Brian Branscum | WELL I.D.: MW- 1

CLIENT NAME: 7-Eleven, Inc. | SAMPLED BY: Brian Branscum | SAMPLE I.D.: MW- 1

LOCATION: 1339 North Vasco Road, Livermore, Califor | QA SAMPLES: None

DATE PURGED 1/20/12 | START (2400hr) 0950 | END (2400hr) 1006

DATE SAMPLED 1/20/12 | SAMPLE TIME (2400hr) 1010

SAMPLE TYPE: Groundwater X | Surface Water ____ | Treatment Effluent ____ | Other ____

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
Casing Volume: (gallons per foot)	X (0.17)	____ (0.38)	____ (0.67)	____ (1.02)	____ (1.50)	____ (2.60)	____ ( )

DEPTH TO BOTTOM (feet) = 18.89 | CASING VOLUME (gal) = 1.7

DEPTH TO WATER (feet) = 8.51 | CALCULATED PURGE (gal) = 5.1

WATER COLUMN HEIGHT (feet) = 10.38 | ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
1/20/12	1000	1.7	15.3	1336	6.52	BRN	MED
↓	1003	3.4	18.3	1441	6.56	BRN	MED
↓	1006	5.1	19.5	1450	6.66	BRN	MED

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 8.87 | SAMPLE TURBIDITY: MED

80% RECHARGE: X YES ___ NO | ANALYSES: **BTEX, TPHg, 5 Oxygenates (EPA 8260B)**

ODOR: N/A | SAMPLE VESSEL / PRESERVATIVE: **HCL**

PURGING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
X Submersible Pump
___ Peristalic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristalic Pump
___ Bailer (Teflon)
X Bailer (___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated ____

Other: ____

WELL INTEGRITY: GOOD | LOCK#: YES

REMARKS: D.O. - 0.8

SIGNATURE: B. A. B

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 | PURGED BY: Brian Branscum | WELL I.D.: MW- 2

CLIENT NAME: 7-Eleven, Inc. | SAMPLED BY: Brian Branscum | SAMPLE I.D.: MW- 2

LOCATION: 1339 North Vasco Road, Livermore, Califor | QA SAMPLES: None

DATE PURGED 1/20/12 | START (2400hr) 1015 | END (2400hr) 1031

DATE SAMPLED 1/20/12 | SAMPLE TIME (2400hr) 1035

SAMPLE TYPE: Groundwater X | Surface Water ____ | Treatment Effluent ____ | Other ____

CASING DIAMETER: 2" X | 3" ____ | 4" ____ | 5" ____ | 6" ____ | 8" ____ | Other ____

Casing Volume: (gallons per foot) (0.17) | (0.38) | (0.67) | (1.02) | (1.50) | (2.60) | ( )

DEPTH TO BOTTOM (feet) = 19.08 | CASING VOLUME (gal) = 1.7

DEPTH TO WATER (feet) = 8.96 | CALCULATED PURGE (gal) = 5.1

WATER COLUMN HEIGHT (feet) = 10.12 | ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
1/20/12	1025	1.7	19.1	1778	6.77	BRN	MED
↓	1028	3.4	18.8	1782	6.74	BRN	MED
↓	1031	5.1	18.8	1807	6.77	BRN	MED

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.48 | SAMPLE TURBIDITY: MED

80% RECHARGE: X YES ___ NO | ANALYSES: **BTEX, TPHg, 5 Oxygenates (EPA 8260B)**

ODOR: N/A | SAMPLE VESSEL / PRESERVATIVE: **HCL**

PURGING EQUIPMENT

___ Bladder Pump | ___ Bailer (Teflon)
___ Centrifugal Pump | ___ Bailer (PVC)
X Submersible Pump | ___ Bailer (Stainless Steel)
___ Peristalic Pump | ___ Dedicated ____
Other: ____
Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump | ___ Bailer (Teflon)
___ Centrifugal Pump | X Bailer (___ PVC or X disposable)
___ Submersible Pump | ___ Bailer (Stainless Steel)
___ Peristalic Pump | ___ Dedicated ____
Other: ____

WELL INTEGRITY: GOOD | LOCK#: YES

REMARKS: D.O. - 0.7

SIGNATURE: [signature]

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 | PURGED BY: Brian Branscum | WELL I.D.: MW- 3

CLIENT NAME: 7-Eleven, Inc. | SAMPLED BY: Brian Branscum | SAMPLE I.D.: MW- 3

LOCATION: 1339 North Vasco Road, Livermore, Califor | QA SAMPLES: None

DATE PURGED 1/20/12 | START (2400hr) 1040 | END (2400hr) 1056

DATE SAMPLED 1/20/12 | SAMPLE TIME (2400hr) 1100

SAMPLE TYPE: Groundwater X | Surface Water ____ | Treatment Effluent ____ | Other ____

CASING DIAMETER: 2" X | 3" ____ | 4" ____ | 5" ____ | 6" ____ | 8" ____ | Other ____

Casing Volume: (gallons per foot) (0.17) | (0.38) | (0.67) | (1.02) | (1.50) | (2.60) | ( )

DEPTH TO BOTTOM (feet) = 20.05 | CASING VOLUME (gal) = 1.7

DEPTH TO WATER (feet) = 9.57 | CALCULATED PURGE (gal) = 5.1

WATER COLUMN HEIGHT (feet) = 10.48 | ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
1/20/12	1050	1.7	18.8	946	7.00	BRN	MED/LOW
↓	1053	3.4	19.5	856	6.96	BRN	MED/LOW
↓	1056	5.1	20.0	860	6.88	BRN	MED/LOW

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10.04 | SAMPLE TURBIDITY: MED/LOW

80% RECHARGE: X YES ____ NO | ANALYSES: **BTEX, TPHg, 5 Oxygenates (EPA 8260B)**

ODOR: N/A | SAMPLE VESSEL / PRESERVATIVE: **HCL**

PURGING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
X Submersible Pump
____ Peristalic Pump
____ Bailer (Teflon)
____ Bailer (PVC)
____ Bailer (Stainless Steel)
____ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
____ Submersible Pump
____ Peristalic Pump
____ Bailer (Teflon) ____
X Bailer (____ PVC or X disposable)
____ Bailer (Stainless Steel)
____ Dedicated ____

Other: ____

WELL INTEGRITY: GOOD | LOCK#: YES

REMARKS: D.O. - 0.5

SIGNATURE: [signature]

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

KIFF Analytical LLC

Report Number : 80132
Date : 01/26/2012

Laboratory Results

Damon Brown
Stantec Consulting Corporation
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 3 Water Samples
Project Name : 7-Eleven Store #32266
Project Number : 211502037.220.0410

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 standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. 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,

Joel Kiff

KIFF Analytical LLC

Report Number : 80132
Date : 01/26/2012

Subject : 3 Water Samples
Project Name : 7-Eleven Store #32266
Project Number : 211502037.220.0410

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with samples MW-1 and MW-2 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 80132
Date : 01/26/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.220.0410**

Sample : **MW-1** Matrix : Water Lab Number : 80132-01

Sample Date :01/20/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:03
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/24/12 14:03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/24/12 14:03
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	01/24/12 14:03
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	01/24/12 14:03

KIFF Analytical LLC

Report Number : 80132
Date : 01/26/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.220.0410**

Sample : **MW-2** Matrix : Water Lab Number : 80132-02
Sample Date :01/20/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 14:36
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/24/12 14:36
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/24/12 14:36
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	01/24/12 14:36
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	01/24/12 14:36

KIFF Analytical LLC

Report Number : 80132
Date : 01/26/2012

Project Name : **7-Eleven Store #32266**
Project Number : **211502037.220.0410**

Sample : **MW-3** Matrix : Water Lab Number : 80132-03
Sample Date :01/20/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Methyl-t-butyl ether (MTBE)	**1100**	2.5	ug/L	EPA 8260B	01/25/12 16:56
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/12 11:20
Tert-amyl methyl ether (TAME)	**2.2**	0.50	ug/L	EPA 8260B	01/24/12 11:20
Tert-Butanol	**58**	5.0	ug/L	EPA 8260B	01/24/12 11:20
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/24/12 11:20
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	01/24/12 11:20
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	01/24/12 11:20

Report Number : 80132

Date : 01/26/2012

QC Report : Method Blank Data

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

Project Number : **211502037.220.0410**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	01/24/2012
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	01/24/2012
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/24/2012
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	01/24/2012
Toluene - d8 (Surr)	97.5		%	EPA 8260B	01/24/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	01/25/2012

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 : 80132

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/26/2012

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

Project Number : **211502037.220.0410**

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														
	80132-03	<0.50	40.0	40.0	38.2	37.4	ug/L	EPA 8260B	1/24/12	95.5	93.6	1.98	80-120	25
Diisopropyl ether														
	80132-03	<0.50	39.5	39.5	42.4	42.0	ug/L	EPA 8260B	1/24/12	107	106	1.11	80-120	25
Ethyl-tert-butyl ether														
	80132-03	<0.50	40.0	40.0	44.3	43.7	ug/L	EPA 8260B	1/24/12	111	109	1.54	76.5-120	25
Ethylbenzene														
	80132-03	<0.50	40.0	40.0	40.8	40.0	ug/L	EPA 8260B	1/24/12	102	99.9	1.94	80-120	25
Methyl-t-butyl ether														
	80132-03	1100	40.4	40.4	986	975	ug/L	EPA 8260B	1/24/12	**0.00**	**0.00**	0.00	69.7-121	25
P + M Xylene														
	80132-03	<0.50	40.0	40.0	41.7	40.7	ug/L	EPA 8260B	1/24/12	104	102	2.27	76.8-120	25
Tert-Butanol														
	80132-03	58	201	201	264	262	ug/L	EPA 8260B	1/24/12	103	102	1.17	80-120	25
Tert-amyl-methyl ether														
	80132-03	2.2	39.4	39.4	44.5	44.8	ug/L	EPA 8260B	1/24/12	107	108	0.764	78.9-120	25
Toluene														
	80132-03	<0.50	40.0	40.0	38.4	37.8	ug/L	EPA 8260B	1/24/12	96.1	94.5	1.72	80-120	25

KIFF ANALYTICAL, LLC

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

Report Number : 80132

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 01/26/2012

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

Project Number : **211502037.220.0410**

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
Methyl-t-butyl ether														
	80143-02	<0.50	40.4	40.4	44.7	44.2	ug/L	EPA 8260B	1/25/12	110	109	1.14	69.7-121	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 : **211502037.220.0410**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.2	ug/L	EPA 8260B	1/24/12	95.6	80-120
Diisopropyl ether	39.7	ug/L	EPA 8260B	1/24/12	107	80-120
Ethyl-tert-butyl ether	40.2	ug/L	EPA 8260B	1/24/12	113	76.5-120
Ethylbenzene	40.2	ug/L	EPA 8260B	1/24/12	102	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	1/24/12	101	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	1/24/12	104	76.8-120
TPH as Gasoline	500	ug/L	EPA 8260B	1/24/12	107	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	1/24/12	99.9	80-120
Tert-amyl-methyl ether	39.6	ug/L	EPA 8260B	1/24/12	111	78.9-120
Toluene	40.2	ug/L	EPA 8260B	1/24/12	97.4	80-120
Methyl-t-butyl ether	40.5	ug/L	EPA 8260B	1/25/12	108	69.7-121

KIFF ANALYTICAL, LLC

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

Chain of Custody Number: 80132

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 # 211502037.220 Task # 220.0410
Project Manager Damon Brown
Laboratory Kiff Analytical
Turnaround Time Standard

Sampler's Name Brian Branscum
Sampler's Signature B. A. B

Analysis Request

Sample ID	Date	Time	Matrix	HCl-preserved	TPHg/BTEX - EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/MTPH 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 EPA 8260B	Chloroform, PCE - EPA 8260B					Comments/ Instructions	Number of Containers	
MW-1	1/20/12	1010	Water	3	X							X							3	01
MW-2	↓	1035	Water	3	X							X							3	02
MW-3	↓	1100	Water	3	X							X							3	03

Special Instructions/Comments
5 Oxygenates - MtBE, EtBE, DIPE, TAME, TBA
Global ID #T10000001067
email EDD to danielle.manning@stantec.com, patrick.schiller@stantec.com
email lab report to danielle.manning@stantec.com / damon.brown@stantec.com / patrick.schiller@stantec.com

Relinquished by:
Sign B. A. B
Print BRIAN BRANSCUM
Company STANTEC
Time 0700 Date 1/23/12

Received by:
Sign
Print
Company
Time Date

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign T JB
Print Timothy Bonner
Company Kiff Analytical
Time 1421 Date 012312

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

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

Page 10 of 11

SECOR CUSTREC Rev. 2/99

Date: 1/20/12 Page 1 of 1

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER TJB Initials

SRG#: 80132 Date: 012312

Project ID: 7-Eleven Store #32266

Method of Receipt: [X] Courier [ ] Over-the-counter [ ] Shipper

COC Inspection

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

Sample Inspection

Coolant Present: [X] Yes [ ] No (includes water)

Temperature °C 3.3 Therm. ID# IR-4 Initial TJB Date/Time 012312 / 1701 [ ] N/A

Are there custody seals on sample containers?	[ ] Intact	[ ] Broken	[X] Not present	
Do containers match COC? [X] 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	[X] No		
Are any sample containers broken, leaking or damaged?	[ ] Yes	[X] No		
Are preservatives indicated? [X] Yes, on sample containers	[X] Yes, on COC	[ ] Not indicated	[ ] N/A	
Are preservatives correct for analyses requested?	[X] Yes	[ ] No	[ ] N/A	
Are samples within holding time for analyses requested?	[X] Yes	[ ] No		
Are the correct sample containers used for the analyses requested?	[X] Yes	[ ] No		
Is there sufficient sample to perform testing?	[X] Yes	[ ] No		

Does any sample contain product, have strong odor or are otherwise suspected to be hot? [ ] Yes [X] No

Receipt Details

Matrix WA	Container type VOA	# of containers received 9
Matrix	Container type	# of containers received
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 012312 Time: 1708

Quicklog

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

COMMENTS: