

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

May 8, 2012

RECEIVED

9:46 am, May 17, 2012

Alameda County Environmental Health

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, Second 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.

ATTEST: Assistant Secretary

7-ELEVEN, INC.

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.

My Commission Expires:

1.21313

Karen Pennell Ictary Public, State of

LIMITED AUTHORIZATION - Page 2 991578.1/SPA/76088/0396/011012

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;

<u>Provided</u>, 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 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 Second 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

> > May 8, 2012



DATE: May 8, 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 [Second Quarter 2012]

1. Conducted quarterly groundwater monitoring and sampling on April 5, 2012, and generated the quarterly report.

WORK PROPOSED FOR NEXT PERIOD [Third Quarter 2012]

- 1. Perform quarterly groundwater monitoring and sampling during third quarter 2012, and prepare the quarterly report.
- 2. Conduct additional offsite assessment per the work plan approved by the ACEHS on March 26, 2012.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000gallon 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 Q2-12 (Measured Below Top of Casing)	MW-1, 7.88 to 8.51 feet

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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)	8.22 to 9.44 feet				
Average Change in Groundwater Elevation Since Last Event:	0.17 foot increase				
Groundwater Flow Direction and Gradient:	West-Northwest @ 0.01 foot per foot (Figure 2)				
Current Quarter Analytical Data	(See Figure 3 and Table 1)				
Maximum TPHg Concentrations	Not Detected, <50 to <250 μg/L				
Maximum Benzene Concentrations	Not Detected, <0.50 to <2.5 µg/L				
Maximum MtBE Concentrations	MW-3, 2,000 μg/L				
Maximum TBA Concentrations	MW-3, 57 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 27 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) and 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).

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On December 4, 2008, a Stantec Consulting Corporation (now Stantec Consulting Services Inc. [Stantec]) field scientist collected soil samples 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). TPHq. 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-Soil sample D2-5 contained 0.21 mg/kg benzene, 0.59 mg/kg toluene, 0.26 mg/kg ethyl-5. 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, TPHq, 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 were collected from soil boring. Grab-groundwater samples GP-2W and GP-3W reported MtBE concentrations of 2.9 μ g/L and 380 μ g/L, respectively. TAME was exclusively detected in grab-groundwater sample GP-3W at a concentration of 0.71 μ g/L. TPHg, BTEX, DIPE, EtBE and TBA were not detected at concentrations above the laboratory reporting limits in grab-groundwater sample GP-3W at a concentration of 0.71 μ g/L. TPHg, BTEX, DIPE, EtBE and TBA were not detected at concentrations above the laboratory reporting limits in GR-3W reported MtBE concentrations of 2.9 μ g/L and 380 μ g/L. TPHg, BTEX, DIPE, EtBE and TBA were not detected at concentrations above the laboratory reporting limits in GR-3W reported MtBE concentrations of 2.9 μ g/L and 380 μ g/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

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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.

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 truckmounted 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.

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May 8, 2012 Page 5 of 5

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:

Amanda Magee, P.G. Associate Geologist

Attachment A – Field Notes

ATTACHMENTS Figures

Tables

C:

AMANDA MAGEE No. 8908 AMANDA MAGEE No. 8908 AMANDA MAGEE No. 8908 AMANDA MAGEE

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

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

Reviewed by:

Damon Brown Senior Geologic Consultant Project Manager

Stantec

Figures



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



FILEPATH:M:\7-Eleven\32266\AUTOPOST 2012\2Q 2012\FIG 2_7-11_32266_GW ELEV.dwg | Layout Tab: 11X17L | Drafter: saguinaldo | May 04, 2012 at 13:15

Ð	GROUNDWATER MONITORING WELL
۲	UST EXCAVATION WATER SAMPLE LOCATION
÷	GEOPROBE SAMPLE LOCATION
<u>ه</u>	2008 SOIL SAMPLE LOCATION
٥	2005 SOIL SAMPLE LOCATION
ī)	APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

GROUNDWATER ELEVATION CONTOUR - 521.8 - (FEET ABOVE MEAN SEA LEVEL)

> GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)



6	GROUNDWAT	ER ELEVATION	FIGURE:
ROAD	CONTC	OUR MAP	
RNIA	APRIL	05, 2012	
NBY:	CHECKED BY:	APPROVED BY:	DATE:
STA	CR	AM	04/20/12



GROUNDWATER MONITORING WELL UST EXCAVATION WATER SAMPLE LOCATION GEOPROBE SAMPLE LOCATION 2008 SOIL SAMPLE LOCATION 2005 SOIL SAMPLE LOCATION

BENZENE (μg/L) TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (μg/L) METHYL TERTIARY BUTYL ETHER (μg/L) TERTIARY BUTYL ALCOHOL (μg/L) MICROGRAMS PER LITER



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

6 ROAD RNIA	GROUNDWATER CONCENTRA APRIL 0	HYDROCARBON ATION MAP 5, 2012	FIGURE:
NBY:	CHECKED BY:	APPROVED BY:	DATE:
STA	l CR	AM	04/20/12





Groundwater Flow Direction

Stantec

Tables

TABLE 1 Second Quarter 2012 Groundwater Monitoring and Analytical Data

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

Well ID/				Ethyl	Total								Dissolved			
Elevation	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MtBE	TBA	DIPE	EtBE	TAME	Notes	Oxygen	DTW	SPT	WTE
(TOC)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		(mg/L)	(feet)	(feet)	(feet)
MW-1	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
530.22																
MW-2	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
530.55																
MW-3	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
530.74																

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

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 2 Historical Water and/or Groundwater Sample Analytical Results

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

Sample				Ethyl	Total											Dissolved			
I.D.	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MtBE	тва	DIPE	EtBE	TAME	EDB	EDC	EtOH	Notes	Oxygen	DTW	SPT	WTE
(TOC)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		(mg/L)	(feet)	(feet)	(feet)
UST Excava	tion Groun	dwater Sa	mple																
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 Groun	dwater San	nples																	
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 Sample	es																	
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				а	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				а	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				а	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				а	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				а	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
MANA/ 2																			
520 74	02/16/11	<0.50	<0.50	<0.50	<0.50	~50	5 600	170	<0.50	<0.50	10					2.54	0.11	0.00	521.62
550.74	05/10/11	<0.50	<0.50	<0.50	<0.50	<50	3,000	170	<0.50	<0.50	10 E 4					2.54	9.11	0.00	521.05
	05/20/11	<0.50	<0.50	<0.50	<0.50	<50	3,200	70	<0.50	<0.50	0.4 0.0					0.32	9.15	0.00	521.59
	10/17/11	<0.50	<0.50	<0.50	<0.50	<00 <50	1,700	/ð 05	<0.50	<0.50	2.0				h	0.42	9.30	0.00	521.38
	10/17/11	<0.50	<0.50	<0.50	<0.50	<00 <50	1,900	85 50	<0.50	<0.50	2.9				D	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				h	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				a	0.47	9.44	0.00	521.30
1	1	1	1	1					1		1	1	1	1	1	1		1	1

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

		Boring	Well	Scr	een	Screen	
Well	Drill	Depth	Diameter	Тор	Bottom	Length	Comments
I.D.	Date	(feet bgs)	(inches)	(feet bgs)	(feet bgs)	(feet)	
Soil Boring	S						
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 4Groundwater Gradient and Flow Direction7-Eleven Store # 322661339 North Vasco RoadLivermore, California

Well No.	Monitoring		Groundwater						(Ground	lwater F	low D	irection	1					
	Date	DTW	Gradient																
		(ft bgs)	(feet per foot)	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
	04/05/12	8.22	0.010	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Avera	age Values	8.21	0.009	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	0
Minum	um Values	7.88	0.008																
Maxim	um Values	8.51	0.010										_						
Explanati	on																		
TOC = To	p of Casing (el	evation in f	eet above mean sea le	evel)															
DTW = De	epth to water be	elow grade	surface as measured	from To	OC														
Number of	f Events	6	Events																
													l						

Stantec

Attachment A Field Notes

DOB NAME:				
SITE ADDRESS: 1330 North Vasco Read START DATE: 41/5/1/2 Livermee, California DATE PREARED: 330/2012 PREPARED FOR: Brian Branscum PREPARED BY: Colin Ryan SITE VISITATION REPORT Colin Ryan Date PREPARED BY: Colin Ryan Name(s) Balans: Decarticuting: 1340 Who did you call in? Danielle Manning Name(s) Balans: Cloudy Rain Careadon SNOW Temperature 20-60.5 2 HAZ WASTE DRUM INVENTORY Temperature 20-60.5 1 Water Careadon Total OPENTOP 5 2 HAZ WASTE DRUM INVENTORY Total OPENTOP 5 1 Water Careadon Total OPENTOP 5 2 Sout 2 Careadon Total OPENTOP 5 3 Sout 2 Careadon Total OPENTOP 5 3 Sout 2 Careadon Total OPENTOP 5 3 Careadon Total OPENTOP 5 Careadon 5 300 HASP, Hospital Coute, Nethide F	JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.230.0700
Livermore, California DATE PREPARED BY: 3302012 PREPARED FOR: Brian Bransourn PREPARED BY: Colin Ryan SITE VISITATION REPORT Date: 4[5][12 Did you call n? Yes) No Normality Date: 4[5][12 Did you call? Danielle Mannine Verder Notations: CUNP Topparture Time: 1340 Who did you call? Danielle Mannine 2 HAZ WASTE DRUM INVENTORY Total OPEN TOP 5 0 SOL CARBON Total OPEN TOP 5 1 Watter OcarBON Total OPEN TOP 5 2 SOL CARBON Total OPEN TOP 5 1 Marce Alexandrian Started Papting Total OPEN Top To	SITE ADDRESS:	1339 North Vasco Road	START DATE:	41512
PREPARED FOR: Brian Branseum PREPARED BY: Colin Ryan SITE VISITATION REPORT Date: 4[5]12 Dd you call m? Temperature 50-60's 2 4 A2 WASTE DRUM INVENTORY 1 WATER O COUDY RAIN SNOW TOTAL OPENTOP SOL CLUUDY RAIN DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HA2 WASTE DRUM INVENTORY 1 WATER O CARBON TOTAL OPENTOP SOL HEALTH AND SAFETY ASSESSMENT DESCRIPTION OF ACTIVITIES ONSITE AND NOTES 130-1100 Truck Irspection, drove to site DO ISO DESCRIPTION OF ACTIVITIES ONSITE AND NOTES 130-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f cal. equipm 30-1130 Tailgate meeting, Started paperwork, defined f Cal. equipm 40-1500 Tailgate meeting		Livermore, California	DATE PREPARED:	3/30/2012
SITE VISITATION REPORT Date: 4[5]12 Did you cell in? Who did you cell in? Temperature Time: 1340 Who did you cell? Temperature 50-60's Temperature 50-60's Temperature 50-60's Temperature 50-60's Temperature 50-60's Temperature 50-60's Total OPEN TOP 5 O SOLE CARBON TOTAL OPEN TOP 5 O SOLE CARBON TOTAL OPEN TOP 5 O SOLE CARBON TOTAL OPEN TOP 5 O HEALTH AND SAFETY ASSESSMENT PE, HASP, Hospital Route, Nahide Foot Traffic, Deliveny Trucks, Slips Frips If Scope of Work. DESCRIPTION OF ACTIVITIES ONSITE AND NOTES 130-1100 - Truck inspection, drove to site. 00-1130 - Tailgate meeting, Started papensork, dermed & cal. equipm 30-1150 - Deened, then guaged wells per guaging form. 50-1515 - Purget then sampled wells papensork. 15-1330 - keleased purge H20 from truck to onsite 55-gal drum. 30-1340 - Tacked up equipment, finished papensork. 40-1500 - Drove home.	PREPARED FOR:	Brian Branscum	PREPARED BY:	Colin Ryan
Same(s) Berns Erenscum Date: 415,112 Did you call in? (a) No Virtual Time: 1120 Troparture Time: 1340 Who did you call in? Temperature 50-6055 2 HAZ WASTE DRUM INVENTORY 1 WATER D CARDON TOTAL OPENTOP 5 0 SOL 2 CARDON TOTAL OPENTOP 5 0 HEALTH AND SAFETY ASSESSMENT PE, HASP, Hospital Roste, Nehide Foot Traffic, Delivery Trucks, Slips Trips IF 500pe & Work. DESCRIPTION OF ACTIVITIES ONSITE AND NOTES 130-1100 - Truck inspection, drove to site. 0 - 1130 - Tailgate meeting, Started Papensork, dermed f cal. equipm 30-1130 - Derned then guaged wells per guaging form. 50-1515 - Purget Then sampled wells per guaging form. 30-1340 - Packed purge H20 from truck to posite 55-gal drum. 30-1340 - Packed up equipment, Anishal papensork. 40-1500 - Drove home.				
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30-1340 - Packed up equipment, finishad paperwork. 40-1500 - Drove home.	315-1330	- Released Duras HOF	no truck to angite	FE cal draws
	77 17.10	Pola Parge 120 T	L A il l onsire	<u>, 55-gai urum.</u>
40-1500 - Drove Nome.	550-1540	- racked up equipmen	T, tinished paperw	ork.
	340-1500	-Drove home.		
			······	

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JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.230.0700	
SITE ADDRESS:	1339 North Vasco Road	START DATE:	4512	
	Livermore, California	DATE PREPARED:	3/30/2012	
PREPARED FOR:	Brian Branscum	PREPARED BY:	Colin Ryan	
1				

GROUNDWATER GAUGING FORM

MEASURE	<u>D TO TO(</u>	2							
WELL	CONST.	WELL	WELL	DTB	DTW	DTP/PT	D.O.	TIME	COMMENTS
I.D.	DTB	DIAM.	ELEV.						Please note if well needs
			ТОС				(mg/L)		locking cap or street box repair
MW-1	20	2"		18.96	8.22	1	0.44	1140	
MW-2	20	2"		19.17	8.88	1	0.51	1145	
MW-3	20	2"	\sum	20.04	9.44	1	0.47	1150	

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	Stantec C WATER SAMPI	Consulting Con LE FIELD DATA	<i>"р.</i> . sheet			
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Li	PURGED BY:	Brian Branscum Brian Branscum	WELL SAMP	1.D.: <u>MW-</u> LE I.D.: <u>MW-</u> MPLES: <u>Nor</u>	1 1 ie	
DATE PURGED4 5 12DATE SAMPLED4 5 12SAMPLE TYPE:Groundwater	START (2400hr) SAMPLE TIME XSurface Wa	(2400hr) ter Trea	END (2	2400hr) 12	16	
CASING DIAMETER: 2" 2" (0.1	X 3" 7) (0.38)	4" (0.67) 5" (1	.02) 6" (1.50)	8" (2.60)	Other	
DEPTH TO BOTTOM (feet) = DEPTH TO WATER (feet) = WATER COLUMN HEIGHT (feet) =	8.96 8.22 0.74	CAS CAL ACT	ING VOLUME (gal) = CULATED PURGE (UAL PURGE (gal) =	= <u>1.8</u> gal)= <u>5.4</u> 7.0		
	FIELD N	MEASUREMENTS				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	E TEMP. (degrees C) 15.0 16.5 11.7	CONDUCTIVITY (umhos/cm) _ 2000 _ 2028 _ 2062	pH (units) 6.91 6.95 6.96	COLOR (visual) BRN BRN BRN	TURBIDITY (NTU) MED MED/LOW	
SAMPLE DEPTH TO WATER: 8.5	<u>14</u>		SAMPLE TURE	BIDITY:	IED	
$\frac{1}{1000} \text{ Recharge: } \times \text{ yes } \text{ NO}$	ANAI	LYSES: <u>BTEX, TPHg</u>	, 5 Oxygenates (EPA	8260B)		
PURGING EQUIPMENT			SAMPLING EQ	JIPMENT		
Bladder Pump Baile Centrifugal Pump Baile X Submersible Pump Baile Peristalic Pump Dedic Other:	r (Teflon) r (PVC) r (Stainless Steel) cated	Bladder Pump Bailer (Teflon) Centrifugal Pump X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other:				
vell integrity: <u>GOOD</u> Remarks: <u>D.O. ~ 0.44</u>			lock#: <u>Y</u> E	5		
	7					

W	Stantec Cons	ulting Corp. ELD DATA SH	EET
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Liver	PURGED BY: <u>Bria</u> SAMPLED BY: <u>Bria</u> more, Califor	n Branscum n Branscum	WELL I.D.: <u>MW- 2</u> SAMPLE I.D.: <u>MW- 2</u> QA SAMPLES: <u>None</u>
DATE PURGED4/5/12DATE SAMPLED4/5/12SAMPLE TYPE:Groundwater X	START (2400hr) SAMPLE TIME (2400h Surface Water	1230 r) <u>17</u> Treatment	END (2400hr) 1246
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" 4"	5" (1.02)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
DEPTH TO BOTTOM (feet) = 19. DEPTH TO WATER (feet) = 8. WATER COLUMN HEIGHT (feet) = 10.7	17 88 19	CASING V CALCULA ACTUAL I	VOLUME (gal) = 1.7 $ATED PURGE (gal) = 5.1$ $PURGE (gal) = 7.0$
	FIELD MEASU	JREMENTS	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} \text{IEMP.} & \text{COP} \\ \text{(degrees C)} \\ \underline{19.0} \\ \underline{17.9} \\ \underline{17.4} \\ \underline{} \\ \underline$	(umhos/cm) 2277 2520 2547	pH COLOR TURBIDITY (units) (visual) (NTU) 6.94 BRN MED 6.91 BRN MED 6.90 BRN MED 0.90 BRN MED
	SAMPLE INFC	RMATION	**~
80% RECHARGE: X YES NO ODOR: NA	ANALYSES	: <u>BTEX, TPHg, 5 Ox</u> HCL	sygenates (EPA 8260B)
PURGING EQUIPMENT Bladder Pump Bailer (T Centrifugal Pump Bailer (P X Submersible Pump Bailer (S Peristalic Pump Dedicate Other: Pump Depth:	ieflon) VC) tainless Steel) d	S Bladder Pump Centrifugal Pump Submersible Pum Peristalic Pump Other:	AMPLING EQUIPMENT Bailer (Teflon) X Bailer (PVC or X disposable Bailer (Stainless Steel) Dedicated
vell integrity: <u>Good</u> Remarks: D.O 0.51	L		LOCK#: YES
		an a san an a	

	Stantec C	Consulting Corp).				
PROJECT #: <u>7-Eleven Store #32266</u> CLIENT NAME: <u>7-Eleven, Inc.</u> LOCATION: <u>1339 North Vasco Road, Livern</u>	PURGED BY: _ SAMPLED BY: Sore, Califor	Brian Branscum WELL I.D.: MW- 3 Brian Branscum SAMPLE I.D.: MW- 3 OA SAMPLES: None			3 3 ne		
DATE PURGED4/5/12DATE SAMPLED4/5/12SAMPLE TYPE:Groundwater X	START (2400hr) SAMPLE TIME (Surface Wat	(2400hr) Treatm	END (2- 1315 Dent Effluent	400hr) 1	311		
CASING DIAMETER: Casing Volume: (gallons per foot) $2"$ X $3"$ $4"$ $5"$ $5"$ $6"$ $8"$ Other (0.38) (0.38) $4"$ (0.67) $5"$ (1.02) $6"$ (1.50) $8"$ (2.60) (1.50)							
DEPTH TO BOTTOM (feet) = 20.04 CASING VOLUME (gal) = 1.8 DEPTH TO WATER (feet) = 9.44 CALCULATED PURGE (gal) = 5.4 WATER COLUMN HEIGHT (feet) = 10.60 ACTUAL PURGE (gal) = 7.0							
	FIELD N	MEASUREMENTS					
DATE TIME VOLUME (2400hr) (gal) (2400hr) 1.8 1.8 1.8 3.6 3.6 3.6 3.4 1.311 5.4	TEMP. (degrees C) 17.1 17.9 18,5	CONDUCTIVITY (umhos/cm) 1258 1177 1177	pH (units) 6.92 6.96 6.90	COLOR (visual) BRN BRN	TURBIDITY (NTU) MED MED MED		
	 SAMPLI	E INFORMATION					
SAMPLE DEPTH TO WATER: 9.90			SAMPLE TURB	IDITY:			
80% RECHARGE: λ YES NO ODOR: λ SAMPLE VE	ANAI SSEL / PRESERVA	LYSES: <u>BTEX, TPHg, :</u> TIVE: <u>HCL</u>	5 Oxygenates (EPA	8260B)			
PURGING EQUIPMENT Bladder Pump Bailer (Te Centrifugal Pump Bailer (PV X Submersible Pump Bailer (Sta Peristalic Pump Dedicated Other: Pump Depth:	rflon) /C) ainless Steel)	SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other:					
well integrity: <u>GOOD</u> remarks: <u>D.O 0.47</u>		L	lock#: <u>V</u> E	S			
SIGNATURE: SIGNATURE:					Page <u>3</u> of <u>3</u>		

Stantec

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



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 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 D. Jurpen

Troy Turpen



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

Case Narrative

Tert-Butanol results for sample MW-3 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.



 Project Name :
 7-Eleven Store #32266

 Project Number :
 211502037.220.0410

Sample : MW-1	Matrix : \	Nater	Lab Number : 80937-01		
Sample Date :04/05/2012					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 01:59
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/10/12 01:59
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/10/12 01:59
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	04/10/12 01:59
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	04/10/12 01:59



 Project Name :
 7-Eleven Store #32266

 Project Number :
 211502037.220.0410

Sample : MW-2	Matrix : \	Vater	Lab Number : 80937-02		
Sample Date :04/05/2012					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/10/12 02:31
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/10/12 02:31
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/10/12 02:31
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	04/10/12 02:31
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	04/10/12 02:31



 Project Name :
 7-Eleven Store #32266

 Project Number :
 211502037.220.0410

Sample : MW-3		Matrix : \	Vater	Lab Number : 80937-03		
Sample Date :04/05/2012		Method				
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed	
Benzene	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Toluene	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Ethylbenzene	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Total Xylenes	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Methyl-t-butyl ether (MTBE)	2000	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Tert-amyl methyl ether (TAME)	3.3	2.5	ug/L	EPA 8260B	04/10/12 04:42	
Tert-Butanol	57 J	15	ug/L	EPA 8260B	04/10/12 04:42	
TPH as Gasoline	< 250	250	ug/L	EPA 8260B	04/10/12 04:42	
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	04/10/12 04:42	
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	04/10/12 04:42	

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	04/09/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/09/2012
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/09/2012
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/09/2012
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	04/09/2012
Toluene - d8 (Surr)	99.6		%	EPA 8260B	04/09/2012

Report Number : 80937 Date : 04/10/2012

		Method			
	Measured	Reporting		Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed

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 Spike Sample Value	e d Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	e Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
	80938-05	<0.50	40.0	40.0	43.5	41.8	ug/L	EPA 8260B	4/9/12	109	104	4.15	80-120	25
Diisopropyl ethe	er													
	80938-05	<0.50	39.5	39.5	44.3	44.0	ug/L	EPA 8260B	4/9/12	112	111	0.747	80-120	25
Ethyl-tert-butyl e	ether													
	80938-05	<0.50	40.0	40.0	40.8	43.5	ug/L	EPA 8260B	4/9/12	102	109	6.35	76.5-120	25
Ethylbenzene														
	80938-05	<0.50	40.0	40.0	45.1	42.5	ug/L	EPA 8260B	4/9/12	113	106	5.75	80-120	25
Methyl-t-butyl et	ther													
	80938-05	<0.50	40.0	40.0	39.5	44.0	ug/L	EPA 8260B	4/9/12	98.8	110	10.8	69.7-121	25
P + M Xylene														
	80938-05	<0.50	40.0	40.0	44.8	42.3	ug/L	EPA 8260B	4/9/12	112	106	5.69	76.8-120	25
Tert-Butanol														
	80938-05	<5.0	201	201	210	204	ug/L	EPA 8260B	4/9/12	104	102	2.65	80-120	25
Tert-amyl-methy	/I ether													
	80938-05	<0.50	39.4	39.4	42.2	43.3	ug/L	EPA 8260B	4/9/12	107	110	2.69	78.9-120	25
Toluene														
	80938-05	<0.50	40.0	40.0	44.1	41.8	ug/L	EPA 8260B	4/9/12	110	105	5.31	80-120	25

KIFF ANALYTICAL, LLC

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

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	39.8	ug/L	EPA 8260B	4/9/12	105	80-120
Diisopropyl ether	39.4	ug/L	EPA 8260B	4/9/12	110	80-120
Ethyl-tert-butyl ether	39.8	ug/L	EPA 8260B	4/9/12	103	76.5-120
Ethylbenzene	39.8	ug/L	EPA 8260B	4/9/12	109	80-120
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	4/9/12	104	69.7-121
P + M Xylene	39.8	ug/L	EPA 8260B	4/9/12	108	76.8-120
TPH as Gasoline	502	ug/L	EPA 8260B	4/9/12	95.8	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	4/9/12	101	80-120
Tert-amyl-methyl ether	39.3	ug/L	EPA 8260B	4/9/12	106	78.9-120
Toluene	39.8	ug/L	EPA 8260B	4/9/12	108	80-120

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02 03

80937

KIFF Øð	RECEIVER
Analytical LLC SAMPLE RECEIPT CHECKLIST	_/JC
SRG#: 80937 Date: 040912	L
Project ID: 7-Eleven Store #32266	
Method of Receipt: 🛛 Courier 🗌 Over-the-counter 🗌 Shipper	
COC Inspection Is COC present? No Custody seals on shipping container? Intact Is COC Signed by Relinquisher? Yes Is coc Signed by Relinquisher? Yes Is sampler name legibly indicated on COC? Yes Is analysis or hold requested for all samples? Yes Is the turnaround time indicated on COC? Yes Is COC free of whiteout and uninitialed cross-outs? Yes	present k N/A] No, Cross-outs
Sample Inspection Coolant Present: Yes No (includes water) Temperature °C 1.9 Therm. ID# <u>T</u> A-4 Initial TJB Date/Time <u>O4O(12/150</u>) Are there custody seals on sample containers? Initial TJB Date/Time <u>O4O(12/150</u>) Are there custody seals on sample containers? Initial TJB Date/Time <u>O4O(12/150</u>) Are there samples matrices other than soil, water, air or carbon? Yes No Are there sample containers broken, leaking or damaged? Yes No Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated Are preservatives correct for analyses requested? Yes No No Are the correct sample containers used for the 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 Matrix Container type # of containers received Matrix Container type # of containers received Matrix Container type # of containers received Ma	7 DVA Not present le(s) present N/A N/A N/A
Quicklog Are the Sample ID's indicated: On COC On sample container(s) On Both If Sample ID's are listed on both COC and containers, do they all match? Yes No Is the Project ID indicated: On COC On sample container(s) On Both Not in 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) M On Both N/A 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) M On Both In COC If collection times are listed on both COC and containers, do they all match? M Yes No In COC In Sample container(s) M On Both In COC If collection times are listed on both COC and containers, do they all match? M Yes No In COC In Sample container(s) M On Both In COC In Sample container(s) No In COC In Sample container(s) M On Both In COC In Sample container(s) No In COC In Sample container(s) M On Both In COC In Sample cont	 Not indicated N/A dicated Not indicated N/A Not indicated N/A N/A N/A
© COMMENTS:	

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