

Stantec Consulting Corporation

3017 Kilgore Road Suite 100 Rancho Cordova CA 95670 Tel: (916) 861-0400

Fax: (916) 861-0430

October 3, 2011

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

11:43 am, Oct 06, 2011 Alameda County Environmental Health

RE:

Enclosed Quarterly Groundwater Monitoring Report,

Third Quarter 2011
7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA 94551

Stantec Project #:211502037.220.0506

Dear Mr. Wickham:

Stantec Consulting Corporation 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 Corporation

Damon Brown

Senior Geologic Consultant

Project Manager

Ed Simonis, PG

Senior Geologist

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Stantec Consulting Corporation

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Quarterly Groundwater Monitoring Report Third Quarter 2011

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

Stantec Project No.: 211502037.220.0506

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

October 3, 2011



Stantec Consulting Corporation 3017 Kilgore Road Suite 100 Rancho Cordova CA 95670 Tel: (916) 861-0400

Fax: (916) 861-0400

DATE: October 3, 2011

7-ELEVEN, INC. SEMI-ANNUAL 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 Corporation – Mr. Damon Brown
Stantec Project No.: 211502037.220.0506
Primary Agency: Alameda County Environmental Health Services (ACEHS)

WORK PERFORMED THIS PERIOD [Third Quarter 2011]

1. Conducted quarterly groundwater monitoring and sampling on August 9, 2011, and generated the quarterly report.

WORK PROPOSED FOR NEXT PERIOD [Fourth Quarter 2011]

- 1. Perform quarterly groundwater monitoring and sampling during fourth quarter 2011, and prepare the quarterly report.
- 2. Prepare and submit a work plan that proposes plume delineation per the ACEHS letter dated August 28, 2011.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000-gallon and one 10,000-gallon gasoline underground storage tanks (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.

Current 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 Q3-11 (Measured Below Top of Casing)	MW-1, 7.88 to 8.30 feet

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(See Figure 2 and Table 1)
Three wells- MW-1 through MW-3
Three wells- MW-1 through MW-3
8.30 to 9.36 feet
0.36 foot decrease
West @ 0.008 foot per foot (Figure 2)
(See Figure 3 and Table 1)
Not Detected, <50 μg/L
Not Detected, <0.50 μg/L
MW-3, 1,700 μg/L
MW-3, 78 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 eleven 4-part composite samples) from the stockpiled UST backfill material.

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

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

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

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

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

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

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

October 3, 2011 Page 4 of 5

were reported at concentrations ranging from 0.0082 mg/kg to 0.33 mg/kg in soil samples collected from MW-3.

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.

October 3, 2011 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 Corporation

Prepared by:

Colin Ryan

Geologic Project Specialist

Reviewed by:

Damon Brown

Senior Geologic Consultant

Project Manager

Ed Simonis, P.G.

Reviewed by:

Senior Geologist

ATTACHMENTS

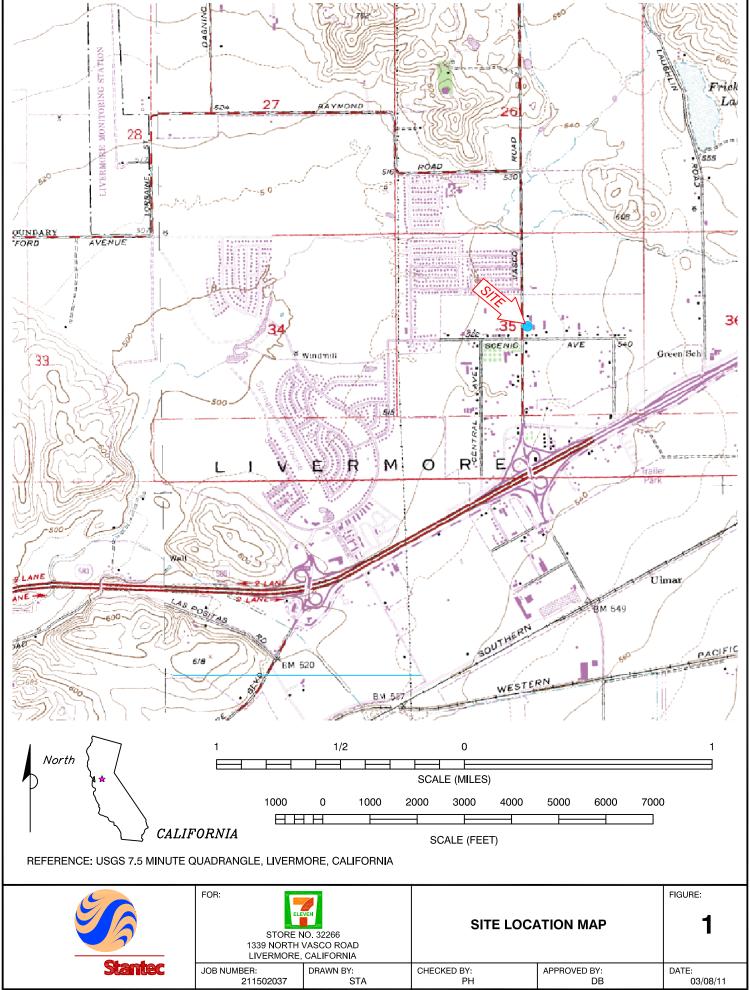
Figures Tables

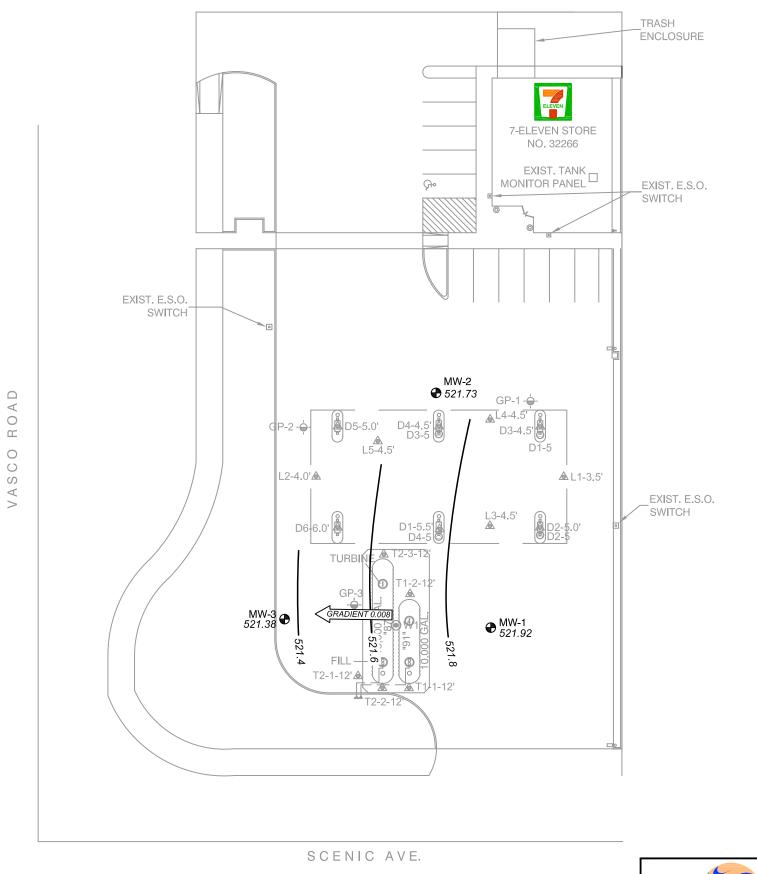
Attachment A - Field Notes

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

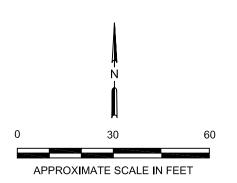




LEGEND:

MW-1 GROUNDWATER MONITORING WELL UST EXCAVATION WATER SAMPLE LOCATION W1 💿 GEOPROBE SAMPLE LOCATION GP-1-⊕-2008 SOIL SAMPLE LOCATION L5-4.5' 🛦 D1-5 ◎ 2005 SOIL SAMPLE LOCATION APPROXIMATE GROUNDWATER FLOW GRADIENT DIRECTION AND GRADIENT (FT/FT) GROUNDWATER ELEVATION CONTOUR 521.8 (FEET ABOVE MEAN SEA LEVEL) GROUNDWATER ELEVATION 521.92

(FEET ABOVE MEAN SEA LEVEL)



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FOR:

STORE NO. 32266

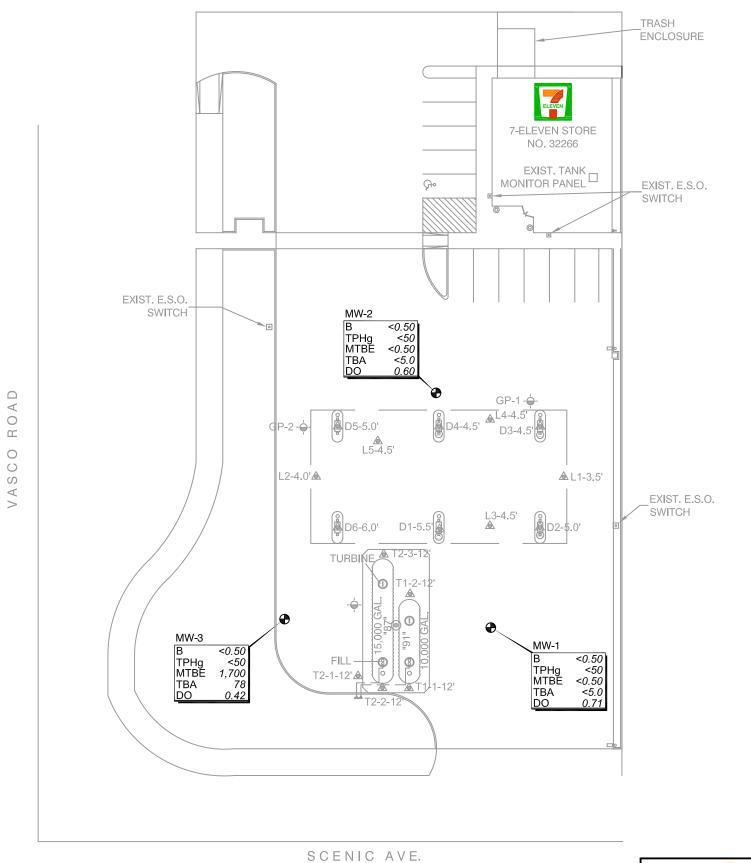
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

JOB NUMBER: DRAWN BY:

211502037

GROUNDWATER ELEVATION CONTOUR MAP AUGUST 09, 2011 FIGURE:

CHECKED BY: APPROVED BY: DATE: PH EKS 0



LEGEND:

MW-1 🕀 GROUNDWATER MONITORING WELL UST EXCAVATION WATER SAMPLE LOCATION W1 💿 GP-1-∳-GEOPROBE SAMPLE LOCATION

L5-4.5' 🕭 2008 SOIL SAMPLE LOCATION D1-5 ◎ 2005 SOIL SAMPLE LOCATION

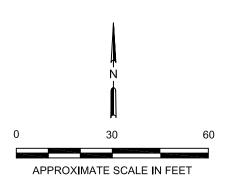
В BENZENE (µg/L)

TOTAL PETROLEUM HYDROCARBONS TPHg

AS GASOLINE (μg/L)

MtBE METHYL TERTIARY BUTYL ETHER (µg/L) TBA TERTIARY BUTYL ALCOHOL (µg/L)

μg/L MICROGRAMS PER LITER



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	FOR:	ELEVEN
'		STORE NO. 32266
		1339 NORTH VASCO RO
		LIVERMORE, CALIFORN

GROUNDWATER HYDROCARBON
CONCENTRATION MAP
AUGUST 09, 2011

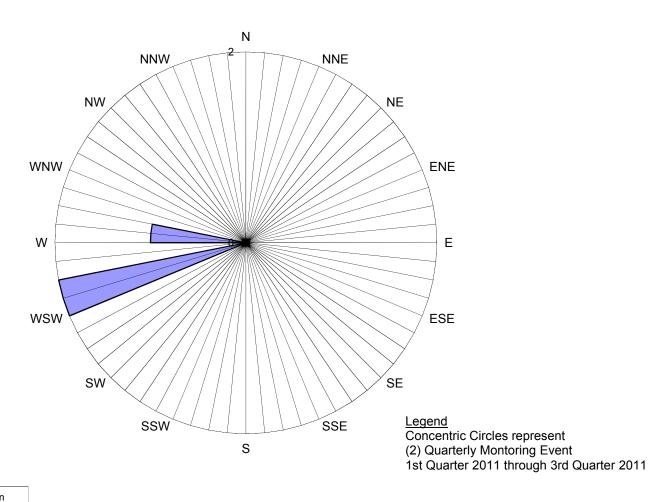
JOB NUMBER: 211502037

DAD NIA DRAWN BY: STA

CHECKED BY:

APPROVED BY: DATE: 09/02/11

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



■Groundwater Flow Direction

Tables

TABLE 1 Third Quarter 2011 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)	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	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
MW-2 530.55	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
MW-3 530.74	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

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				Ethyl												Dissolved			
I.D.	Date	Benzene	Toluene	Benzene	Xvlenes	TPHa	MtBE	TBA	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						1	-					
Grab Groun	dwater Sar	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	<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 '	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				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
MW-2																			ł I
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
MW-3																			l
530.74		<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

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.

Table 3 **Soil Boring Details**

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

		Boring	Well	Scr	Screen		
Well	Drill	Depth	Diameter	Тор	Bottom	Length	Comments
I.D.	Date	(feet bgs)	(inches)	(feet bgs)	(feet bgs)	(feet)	
Soil Borings	3						
GP-1	04/20/10	20		1			
GP-2	04/20/10	25		-	-		
GP-3	04/20/10	30		-	-	-	
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	

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	Groundwater Gradient						(Ground	lwater I	Flow D	irection	า					
		(ft bgs)	(feet per foot)	N	NNE	NE	ENE	Е	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	0.007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	08/09/11	8.30	0.007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Avera	age Values	8.08	0.007	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0
Minum	um Values	7.88	0.007																

Explanation

Maximum Values

TOC = Top of Casing (elevation in feet above mean sea level)

8.30

0.008

DTW = Depth to water below grade surface as measured from TOC

Number of Events 3 Events

Attachment A Field Notes

SITE ADDRESS: 1339 North Vasco Road Livermore, California PREPARED FOR: Brian Branscum PREPARED BY: Danielle Manning Name(s) Brian Branscum Name(s) Brian Branscum Date: 8 a 11 Danielle Manning Name(s) Brian Branscum Date: 8 a 11 Did you call in? Arrival Time: 0930 "Departure Time: 1720 Who did you call? Temperature 80-90's F DRUM INVENTORY DRUM INVENTORY Temperature 80-90's F DESCRIPTION OF ACTIVITIES ONSITE AND NOTES That I inspection drave to office picked up paperwork supplies Drove to s R30 - 1000 - Tailyate meeting, started paperwork, decored & calibrated equipment. 1000 - 1035 - Opened then guaged wells per guaging form. 1000 - 1035 - Parged then Sampled wells guaged. 205 - 1220 - Leleased parget 420 from truck to onsite 55-gal drawn.	SITE ADDRESS: 1339 North Vasco Road Livermore, California PREPARED FOR: Brian Branscum Name(s) Brian Branscum Note: 8 a 11 Date: PREPARED BY: Branscum Note: 8 a 11 Date: PREPARED BY: Danielle Manning Note: 8 a 11 Date: PREPARED BY: Danielle Manning Note: 8 a 11 Date: PREPARED BY: Danielle Manning Note: 8 a 11 Date: PREPARED BY: Bristolle Who did you call? Yes No Col in Ryan Temperature 30-90's Note: Properature 30-90's DRUM INVENTORY Total open top Total open top Total open top Total open top Total Bung top Total open top Total open top Total open top Total Bung top Total open top Total							
PREPARED FOR: Description of activities onsite and notes 1200 120	DATE PREPARED: Brian Branscum PREPARED BY: Date: 8/9 11 Date: 8/9 11 Date: 9/30 Who did you call in? Who did you call? Temperature 80-90's PREPARED BY: DRUM INVENTORY TOTAL OPEN TOP TOTAL DEN TOTAL BUNG TOP TOTAL BUNG TOP TOTAL SIPE Trups Factor of fice picked up paperwork supplies Drov 1000 - 1035 - Opened then guaged wells per guaging form 1005 - 1205 - Runged then sampled wells guaged. 2007 - 1220 - Released punge H20 from truck to onsite 55-gal drum.		211502037.220.0700	_JOB NUMBER:				
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220-1230 - Packed up equipment, finished paperwork. 230-1330 - Drove to hotel.	220-1230 - tacked up equipment, finished paperwork. 230-132p - Drove to hotel.	·	35-gal arum.			•	_ 1 1	
230-1330 - Drove to hotel.	230-1330-Drove to hotel.			I paperwork.	ent, finish	up equipm	Packed !	220-1230 -
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7-Eleven Store #32266	JOB NUMBER:	211502037.220.0700
1339 North Vasco Road	START DATE:	8 9 11
Livermore, California	DATE PREPARED:	8/5/2011
Brian Branscum	PREPARED BY:	Danielle Manning
•	1339 North Vasco Road Livermore, California	1339 North Vasco Road START DATE: Livermore, California DATE PREPARED:

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"		18.97	8.30	1	0.71	1015	
MW-2	20	2"		19.20	8.82	1	0.60	1025	
MW-3	20	2"		20.05	9.36	1	0.42	1635	

Stantec Consulting Corp. WATER SAMPLE FIELD DATA SHEET									
	RGED BY: Brian Branscum MPLED BY: Brian Branscum , Calife	WELL I.D.: MW- SAMPLE I.D.: MW- QA SAMPLES: None							
	ART (2400hr) 1045 MPLE TIME (2400hr) Treatment	END (2400hr)							
CASING DIAMETER: 2" X 3" Casing Volume: (gallons per foot) (0.17)	(0.38) 4" (0.67) 5" (1.02)	6" 8" Other (1.50)							
DEPTH TO BOTTOM (feet) = 18.9° DEPTH TO WATER (feet) = 8.30 WATER COLUMN HEIGHT (feet) = 10.67	CALCULA	VOLUME (gal) = $\frac{1.8}{4}$ ATED PURGE (gal) = $\frac{5.4}{1.0}$ PURGE (gal) = $\frac{7.0}{1.0}$							
	FIELD MEASUREMENTS								
8 9 11 1055 1.8 1058 3.6 1101 5.4	TEMP. CONDUCTIVITY (degrees C) (umhos/cm) 23.6 23.9 1617 1665 23.5 1658 SAMPLE INFORMATION	pH COLOR TURBIDITY (units) (visual) (NTU) 6.77 BRN MED 6.96 BRN MED 7.06 BRN MED							
SAMPLE DEPTH TO WATER: 8.94		SAMPLE TURBIDITY: MED							
	ANALYSES: BTEX, TPHg, 5 C	· · · · · · · · · · · · · · · · · · ·							
PURGING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) X Submersible Pump Peristalic Pump Dedicated Other: Pump Depth:)Bladder Pump Centrifugal Pum	mp Bailer (Stainless Steel) Dedicated							
WELL INTEGRITY: GOOD REMARKS: D.O 0.71		LOCK#: YES							
SIGNATURE:		Page 1 of 3							

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, Califc QA SAMPLES: None
DATE PURGED 8 9 1 START (2400hr) 115 END (2400hr) 113 DATE SAMPLED 8 9 1 SAMPLE TIME (2400hr) 1135 SAMPLE TYPE: Groundwater X Surface Water Treatment Effluent Other
CASING DIAMETER: 2" $\frac{X}{(0.17)}$ 3" $\frac{4}{(0.38)}$ 4" $\frac{5}{(0.67)}$ 6" $\frac{8}{(1.50)}$ 8" Other Casing Volume: (gallons per foot)
DEPTH TO BOTTOM (feet) = 19.20 CASING VOLUME (gal) = 1.7 DEPTH TO WATER (feet) = 8.82 CALCULATED PURGE (gal) = 5.1 WATER COLUMN HEIGHT (feet) = 10.40 ACTUAL PURGE (gal) = 7.0
FIELD MEASUREMENTS
DATE TIME (2400hr) (gal) (degrees C) (umhos/cm) (units) (visual) (NTU) (NTU) (VISUAL) (VISUAL) (NTU) (NTU) (VISUAL) (VISUAL) (VISUAL) (NITU) (
SAMPLE DEPTH TO WATER: 9.33 SAMPLE TURBIDITY: MEDICOL
80% RECHARGE: X YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates (EPA 8260B) ODOR: NA SAMPLE VESSEL/PRESERVATIVE: HCL
PURGING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) Submersible Pump Peristalic Pump Dedicated Other: Pump Depth: SAMPLING EQUIPMENT Bailer (Teflon) Bailer (Teflon) Centrifugal Pump Submersible Pump Bailer (Stainless Steel) Submersible Pump Peristalic Pump Dedicated Other: Other:
WELL INTEGRITY: GOOD LOCK#: YES REMARKS: D.O 0.60
SIGNATURE: Page 2 of 3

	sulting Corp.
PROJECT #: 7-Eleven Store #32266 PURGED BY: Bri CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Bri LOCATION: 1339 North Vasco Road, Livermore, Calife	3
DATE PURGED DATE SAMPLED SAMPLE TYPE: Groundwater X SURFace Water	
CASING DIAMETER: 2" X 3" 0.38 4" 0.38	(0.67) 5" 6" 8" Other (1.50)
DEPTH TO BOTTOM (feet) = $\frac{20.05}{9.36}$ WATER COLUMN HEIGHT (feet) = $\frac{10.69}{10.69}$	CASING VOLUME (gal) = $\frac{1.8}{5.4}$ CALCULATED PURGE (gal) = $\frac{5.4}{1.0}$
FIELD MEA	SUREMENTS
(2400hr) (gal) (degrees C) 8 9 11 1155 1.8 22.4 1158 3.6 22.8 1201 5.4 12.9 SAMPLE IN	ONDUCTIVITY pH COLOR TURBIDITY (units) (visual) (NTU) 955 7.38 BRN MEDICON 925 7.35 BRN MEDICON 940 7.20 BRN MEDICON FORMATION
SAMPLE DEPTH TO WATER: 9.71	SAMPLE TURBIDITY: MED LOW
80% RECHARGE: X YES NO ANALYS ODOR: NA A YES NO SAMPLE VESSEL / PRESERVATIVE PURGING EQUIPMENT	VE: HCL SAMPLING EQUIPMENT
Bladder Pump Centrifugal Pump Bailer (Teflon) Bailer (PVC) X Submersible Pump Peristalic Pump Dedicated Other: Pump Depth:	Bladder Pump Centrifugal Pump Submersible Pump Peristalic Pump Other: Bailer (Teflon) PVC or X disposable) Bailer (Stainless Steel) Dedicated
WELL INTEGRITY: GOOD REMARKS: D.O 0.42	LOCK#: YES
SIGNATURE:	Page 3 of 3

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



Date: 08/18/2011

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

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,



Date: 08/18/2011

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

Project Number: 211502037.220

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.



Date: 08/18/2011

Project Name: 7-Eleven Store #32266

Project Number: 211502037.220

Sample: MW-1 Matrix: Water Lab Number: 78445-01

Sample Date :08/09/2011

Sample Date .00/09/2011		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 12:55
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/16/11 12:55
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/16/11 12:55
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	08/16/11 12:55
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	08/16/11 12:55



Date: 08/18/2011

Project Name: 7-Eleven Store #32266

Project Number: 211502037.220

Sample: MW-2 Matrix: Water Lab Number: 78445-02

Sample Date :08/09/2011

Sample Date .00/09/2011		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 13:30
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	08/16/11 13:30
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/16/11 13:30
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	08/16/11 13:30
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	08/16/11 13:30



Date: 08/18/2011

Project Name: 7-Eleven Store #32266

Project Number: 211502037.220

Sample: MW-3 Matrix: Water Lab Number: 78445-03

Sample Date :08/09/2011

Sample Date :00/03/2011		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Toluene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Methyl-t-butyl ether (MTBE)	1700	2.5	ug/L	EPA 8260B	08/17/11 01:02
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	08/16/11 14:05
Tert-amyl methyl ether (TAME)	2.8	0.50	ug/L	EPA 8260B	08/16/11 14:05
Tert-Butanol	78	5.0	ug/L	EPA 8260B	08/16/11 14:05
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	08/16/11 14:05
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	08/16/11 14:05
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	08/16/11 14:05

Date: 08/18/2011

QC Report : Method Blank Data

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

	Method			_
Measured Value	Reporting Limit	l Units	Analysis Method	Date Analyzed
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 5.0	5.0	ug/L	EPA 8260B	08/16/2011
< 0.50	0.50	ug/L	EPA 8260B	08/16/2011
< 50	50	ug/L	EPA 8260B	08/16/2011
99.9		%	EPA 8260B	08/16/2011
99.6		%	EPA 8260B	08/16/2011
	< 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 5.0 < 0.50 < 99.9	Measured Value Reporting Limit < 0.50	Measured Value Reporting Limit Units < 0.50	Measured Value Reporting Limit Analysis Method < 0.50

		Method			
	Measured	Reporti	ng	Analysis	Date
<u>Parameter</u>	Value	Limit	Units	Method	Analyze
					-

Date: 08/18/2011

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

	Spiked	Sample	Spike	Spike Dup.	Spiked Sample	Duplicate Spike Sample	e ed	Analysis	Date	Spiked Sample Percent	Duplicat Spiked Sample Percent		Spiked Sample Percent	Relative Percent Diff.
Parameter	Sample	Value	Level	Level	Value	Value	Units	Method	Analyzed	Recov.	Recov.	Diff.	Limit	Limit
Methyl-t-butyl e	ther													
	78449-01	1.7	37.4	37.9	41.2	41.9	ug/L	EPA 8260B	8/16/11	106	106	0.433	69.7-121	25
Benzene														
	78408-09	<0.50	40.0	40.0	38.2	37.0	ug/L	EPA 8260B	8/16/11	95.5	92.5	3.19	80-120	25
Diisopropyl ethe	er													
	78408-09	<0.50	39.6	39.6	35.2	34.0	ug/L	EPA 8260B	8/16/11	88.8	85.8	3.52	80-120	25
Ethyl-tert-butyl	ether													
	78408-09	<0.50	39.9	39.9	36.5	35.4	ug/L	EPA 8260B	8/16/11	91.4	88.7	3.01	76.5-120	25
Ethylbenzene														
	78408-09	<0.50	40.0	40.0	40.8	39.6	ug/L	EPA 8260B	8/16/11	102	99.1	2.99	80-120	25
Methyl-t-butyl	ether													
	78408-09	160	40.2	40.2	167	163	ug/L	EPA 8260B	8/16/11	14.1	3.73	116	69.7-121	25
P + M Xylene														
	78408-09	<0.50	40.0	40.0	41.9	40.5	ug/L	EPA 8260B	8/16/11	105	101	3.36	76.8-120	25
Tert-Butanol														
	78408-09	<5.0	193	193	196	196	ug/L	EPA 8260B	8/16/11	101	101	0.238	80-120	25
Tert-amyl-meth	yl ether													
	78408-09	<0.50	39.9	39.9	36.8	36.0	ug/L	EPA 8260B	8/16/11	92.4	90.3	2.30	78.9-120	25

Date: 08/18/2011

QC Report : Matrix Spike/ Matrix Spike Duplicate

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

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value		Analysis Method	Date Analyzed	Percent		Relative		Relative Percent Diff. Limit
Toluene	•								-					
	78408-09	<0.50	40.0	40.0	38.8	37.4	ug/L	EPA 8260B	8/16/11	97.0	93.4	3.68	80-120	25

Date: 08/18/2011

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

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	8/16/11	106	69.7-121
Benzene	40.0	ug/L	EPA 8260B	8/16/11	93.3	80-120
Diisopropyl ether	39.6	ug/L	EPA 8260B	8/16/11	86.0	80-120
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	8/16/11	88.5	76.5-120
Ethylbenzene	40.0	ug/L	EPA 8260B	8/16/11	101	80-120
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	8/16/11	85.5	69.7-121
P + M Xylene	40.0	ug/L	EPA 8260B	8/16/11	103	76.8-120
TPH as Gasoline	500	ug/L	EPA 8260B	8/16/11	100	70.0-130
Tert-Butanol	193	ug/L	EPA 8260B	8/16/11	100	80-120
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	8/16/11	91.0	78.9-120
Toluene	40.0	ug/L	EPA 8260B	8/16/11	95.4	80-120

Chain of Custody Number:

			Sta	ant	tec	. (Ch	ain	-of	Cu	sto	ody	Re	eco	rd							
	mento ore Road, S ordova, CA)							•	Job	Add Nam ation	ie:	7-l 13	Elev	en S orth	tore Vas	ttached, a #32266 co Road		re part of this Record.		
Laboratory Kiff Analy	n Brown	Task #	220.0410	þ	- EPA 8260	l Only) ed)	ЛРН 418.1	atiles	cs :GC/MS)	Volatiles	Organics C/MS)	S.	4	Analy	sis F	Requ	est				ontainers	
Sampler's Name Brian Sampler's Signature Sample ID		Time	Matrix	HCI-preserved	тРн9/втех	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Vol 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated 601/8010	Semi-volatile 625/8270 (G	5 Oxygenate EPA 8260B	Chloroform, 8260B							Comments/ nstructions	Number of Containers	
MW-1 MW-2	8/9/11	1105	Water Water	3	X							X									3	_
MW-3	V	1205	Water	3	Х							Х									3	0
		-																				1
Special Instructions/Comm	nents			Re	linqı	isbe	d by					Red	ceive	d by:					1	Sample Receipt		1
5 Oxygenates - MtBE, EtBE, DIPE, TAME, TBA Global ID #T10000001067 email EDD to danielle.manning@stantec.com email lab report to danielle.manning@stantec.com /				Sig Pri	nt mpa	72 <u>73e</u> iny	X VAN	STA	2AL N72 8/	<u>`</u>		Sig Prin Con Tim	nt mpar	<u></u>		Date			Re	Total no. of containers: Chain of custody seals: ec'd in good condition/cold: Conforms to record:		
damon.brown@stantec.c patrick.schiller@stantec.	om /	, , , , , , , , , , , , , , , , , , , ,		Relinquished by: Sign Print Company Time Da				5_Date				Received by, Sign Print Levi Roberts Company Time 1545 Date 081211					Ana	lytical	Client: Stantec Client Contact: Damon Client Phone: (916) 861-0400 ext. 230		100	1
SECOR CUSTREC Rev. 2/99									-			<u> </u>										_

Page 10 of 11

Date: 8 9 11

Page lof l



SAMPLE RECEIPT CHECKLIST 78445 Date:

RECI	EIVER
Init	ials

SR	G#:	78445	Date:	081211	initiais
Proj	iect ID:	7-Eleven	Store #3	2266	
Met	hod of Receipt:	Courier \(\)	Over-the-counter	Shipper	
COC Inspection Is COC present? Custody seals on shipping Is COC Signed by Relinco Is sampler name legibly it Is analysis or hold request Is the turnaround time in Is COC free of whiteout it	quisher? Yes indicated on COC? sted for all samples dicated on COC?		Yes Intact Yes	☐ No ☐ Broken ☐ Not ☐ No ☐ No ☐ No ☐ No ☐ No ☐ No ☐ No, Whiteout ☐	,
Sample Inspection Coolant Present: 2 Temperature °C Are there custody seals or Do containers match COO Are there samples matric Are any sample container. Are preservatives indicated Are preservatives correct Are samples within holding Are the correct sample could be sampled and sample contained the correct sample could be sampled and sample contained the correct	Therm. ID# on sample containers C? Yes es other than soil, w rs broken, leaking o led? Yes, o t for analyses reques ing time for analyses containers used for the to perform testing? product, have stron Container type Container type Container type Container type Container type	? No No, COC rater, air or carbon? r damaged? on sample contained ted? s requested? e analyses requested g odor or are other ted?	Date/Tim Intact Iists absent sample(s) Yes	No, Extra sample No. No	Not present
Quicklog Are the Sample ID's indi If Sample ID's are listed Is the Project ID indicate If project ID is listed on the Are the sample collection If collection dates are list Are the sample collection If collection times are list	on both COC and cod: On COC and contain dates indicated: ted on both COC and times indicated:	ontainers, do they a OC	ole container(s) latch? Yes On sample container ly all match? On sample container	Yes \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Not indicated N/A icated Not indicated N/A Not indicated N/A Not indicated
COMMENTS:					
1 100					