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Quarterly Groundwater Monitoring Report
Third Quarter 2005

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

SECOR Project No.: 77EL.20244.05

Submitted by:
SECOR International Incorporated
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Prepared on behalf of:
7-Eleven, Inc.
Mr. Ken Hilliard
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November 21, 2005

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STATE OF CALIFORNIA

DATE: November 21, 2005

SECOR

7-ELEVEN, INC. QUARTERLY REPORT

Store Number:	**7-Eleven Store #20244**
Site Address:	3625 MacDonald Avenue, Richmond, CA
7-Eleven Contact:	Mr. Ken Hilliard
Consulting Company:	SECOR International, Inc. – Mr. Jaff Auchterlonie
SECOR Project No.:	77EL.20244.05
Primary Agency:	California Regional Water Quality Control Board - San Francisco Bay Region (CRWQCB – SFBR)

WORK PERFORMED THIS QUARTER [Third – 2005]

1. Conducted groundwater monitoring and sampling of five wells on September 26, 2005.
2. Conducted extended oxygen injection test using onsite wells.
3. Prepared quarterly monitoring and sampling report.

WORK PROPOSED FOR NEXT QUARTER [Fourth – 2005]

1. Conduct quarterly groundwater monitoring and sampling.
2. Continue periodic oxygen injection into the onsite wells.
3. Prepare quarterly monitoring and remediation progress report.
4. Submit Risk Based Corrective Action Report to CRWQCB – SFBR.

DISCUSSION

The site is a 7-Eleven convenience store and former gasoline service station (Figures 1 and 2). Underground storage tanks (USTs) no longer exist at the site. Monitoring and sampling have been conducted at the site since the first quarter of 1999. The current groundwater monitoring and sampling data are summarized in Table 1, and presented in Figures 2 and 3. Historical groundwater monitoring and sampling results are summarized in Table 2. Well completion details are summarized in Table 3.

Current Site Information

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, Five wells - MW-1 through MW-5
Are Liquid Phase Hydrocarbons Present On-site:	No
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	None
Current Remediation Techniques:	Continued Oxygen Injection Feasibility Testing
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-99 to Q3-05	MW-1, 8.15 to 19.99 feet bgs
Current Quarter Monitoring Data	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Five wells- MW-1 through MW-5
Dissolved Oxygen Concentrations Measured In:	Five wells- MW-1 through MW-5

Depth to Groundwater (DTW)	13.92 to 15.14 ft bgs
Average Change in Groundwater Elevation Since Last Event:	1.72 foot decrease
Groundwater Flow Direction and Gradient:	Southeast @ 0.01 foot per foot (Figure 2)
Current Quarter Analytical Data	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	MW-2, 2,500 µg/L
Maximum Benzene Concentrations	MW-3, 33 µg/L
Maximum MtBE Concentrations	MW-3, 5,400 µg/L
Maximum TBA Concentrations	MW-3, 1000 µg/L

BACKGROUND

On May 20, 1998, Fluor Daniel GTI supervised the advancement of four Geoprobe borings (GP-1 through GP-4) adjacent to the two 10,000-gallon USTs at the site. The work was required by the Contra Costa Environmental Health Department (CCEHD) prior to a proposed re-lining of the two 10,000-gallon USTs as part of a fuel system upgrade at the site. Soil sample analytical data indicated maximum benzene and total petroleum hydrocarbons as gasoline (TPHg) concentrations of 0.048 milligrams per kilogram (mg/kg) and 1.3 mg/kg, respectively. Methyl-tert-butyl ether (MtBE) was detected at a maximum concentration of 0.62 mg/kg. Grab groundwater samples collected from the bases of the borings contained up to 19 micrograms per liter (µg/L) benzene, 11,000 µg/L TPHg, and 4,800 µg/L MtBE. Based on analytical data from the Geoprobe borings, permit approval to upgrade/reline the USTs at the site was denied by the CCEHD, and the tanks were subsequently removed from the site.

On December 16, 1998, two 10,000-gallon USTs and one 6,000-gallon UST (with associated product piping) were removed from the site, and were not replaced. Analytical results of nine soil samples collected indicated that the highest residual benzene (0.0156 mg/kg), TPHg (110 mg/kg), MtBE (1.59 mg/kg) and tert-butyl alcohol (TBA) (0.865 mg/kg) concentrations were detected beneath the eastern end of the tank excavation and beneath the southern end of the fuel dispenser island.

To remove as much hydrocarbon adsorbed to soil as possible, the floor of the UST pit was excavated to a depth of 14.5 feet bgs, and the dispenser island area was excavated to a depth of 5 feet bgs. Maximum concentrations of benzene (0.2 mg/kg) and TPHg (68 mg/kg) were detected beneath the south end of the dispenser island excavation. The highest MtBE concentration (7.3 mg/kg) was detected beneath the southeast corner of the UST excavation. The southern end of the dispenser island excavation was further excavated to 8.5 feet bgs. A soil sample collected from the floor of the excavation contained a low concentration of MtBE (0.28 mg/kg) and did not contain detectable benzene and TPHg concentrations.

The RWQCB requested further assessment based upon the initial site investigation results. On January 22, 1999, IT Corporation supervised the installation of three 2-inch diameter

groundwater monitoring wells (MW-1, MW-2, and MW-3). Benzene, TPHg, and MtBE concentrations in soil ranged up to 9.19 mg/kg, 1,330 mg/kg, and 12 mg/kg, respectively.

In September 1999, six Geoprobe soil borings (SB-1 through SB-6) were advanced at the site to total depths of between 19.5 and 28 feet bgs. TPHg was reported in soil at concentrations up to 20.4 mg/kg. Benzene, MtBE, and other oxygenates were not detected above laboratory reporting limits in the soil samples. Grab groundwater samples collected at the total depth of each boring contained dissolved concentrations ranging up to 1.12 µg/L benzene, 6.93 µg/L TPHg, and 6.79 µg/L MtBE (IT Corporation, 1999).

On August 24, 2001, IT Corporation supervised the installation of two 2-inch diameter groundwater monitoring wells (MW-4 and MW-5). Benzene and MtBE were not detected in soil at concentrations above laboratory reporting limits. TPHg concentrations in soil ranged from non-detectable to 12 mg/kg in sample MW-5 @ 10-10.5.

On September 14, 2004, SECOR submitted a Work Plan for Remediation Well Install and Oxygen Injection Feasibility Test to the RWQCB. The work plan proposed the installation of three oxygen injection wells (I-1 through I-3), and conducting an oxygen injection feasibility test. The work plan was approved by the RWQCB in a letter dated October 4, 2004. Oxygen injection wells I-1 through I-3 were installed on December 14-15, 2004.

A *Well Installation and Oxygen Injection Feasibility Test Report* was submitted to the RWQCB on February 18, 2005. In the report, SECOR recommended conducting periodic oxygen injection into wells I-1 through I-3 through the second quarter 2005.

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 feet bgs in monitoring wells MW-1 through MW-5 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in each well using a YSI Model 550A dissolved oxygen meter equipped with a down hole sensor

Well purging and sampling equipment was thoroughly cleaned prior to purging and sampling each well. The sampling procedure for each well included measuring the water level and checking for the presence of liquid-phase hydrocarbons (LPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing LPH were purged of approximately three casing volumes of water (or to dryness) using a submersible pump or bailer. 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, water levels were allowed to recover to 80% of the original levels 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 presented in Attachment A.

GROUNDWATER SAMPLE ANALYSES AND RESULTS

The groundwater samples collected from MW-1 through MW-5 were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel oxygenates MtBE, TBA, diisopropyl ether (DIPE), ethyl-tert-butyl ether (EtBE), and tert-amyl-methyl ether (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. MtBE concentrations in onsite wells MW-1, MW-2, and MW-3 continued to decrease during the third quarter 2005.

REMEDIATION TESTING

Since January 11, 2005, SECOR has been conducting periodic oxygen injection into wells I-1 through I-3 to determine the effectiveness of oxygen injection as a viable remedial approach. On July 12, July 27, August 9, August 23, September 7, and September 21, 2005, SECOR field personnel conducted oxygen injection into the onsite injection wells. 150 ft^3 of oxygen was injected into each well (Table 4). Dissolved oxygen (DO) concentrations were measured before and after the injection event in each onsite monitoring well. During the third quarter 2005, the highest DO increase was observed in well MW-3 which increased from 1.1 milligrams per liter (mg/L) to 44.0 mg/L on July 27, 2005 (Table 5). Field notes are in Attachment C.

Due to a significant increase in dissolved oxygen and a corresponding decrease in MtBE concentration in MW-3, oxygen injection is considered to be an appropriate remedial method at the site. A modified corrective action plan will be submitted during the fourth quarter 2005 to present a site specific remediation plan based on the results of the feasibility test and historical site data. SECOR will continue biweekly oxygen injection during the fourth quarter 2005.

PURGE AND RINSATE WATER DISPOSAL

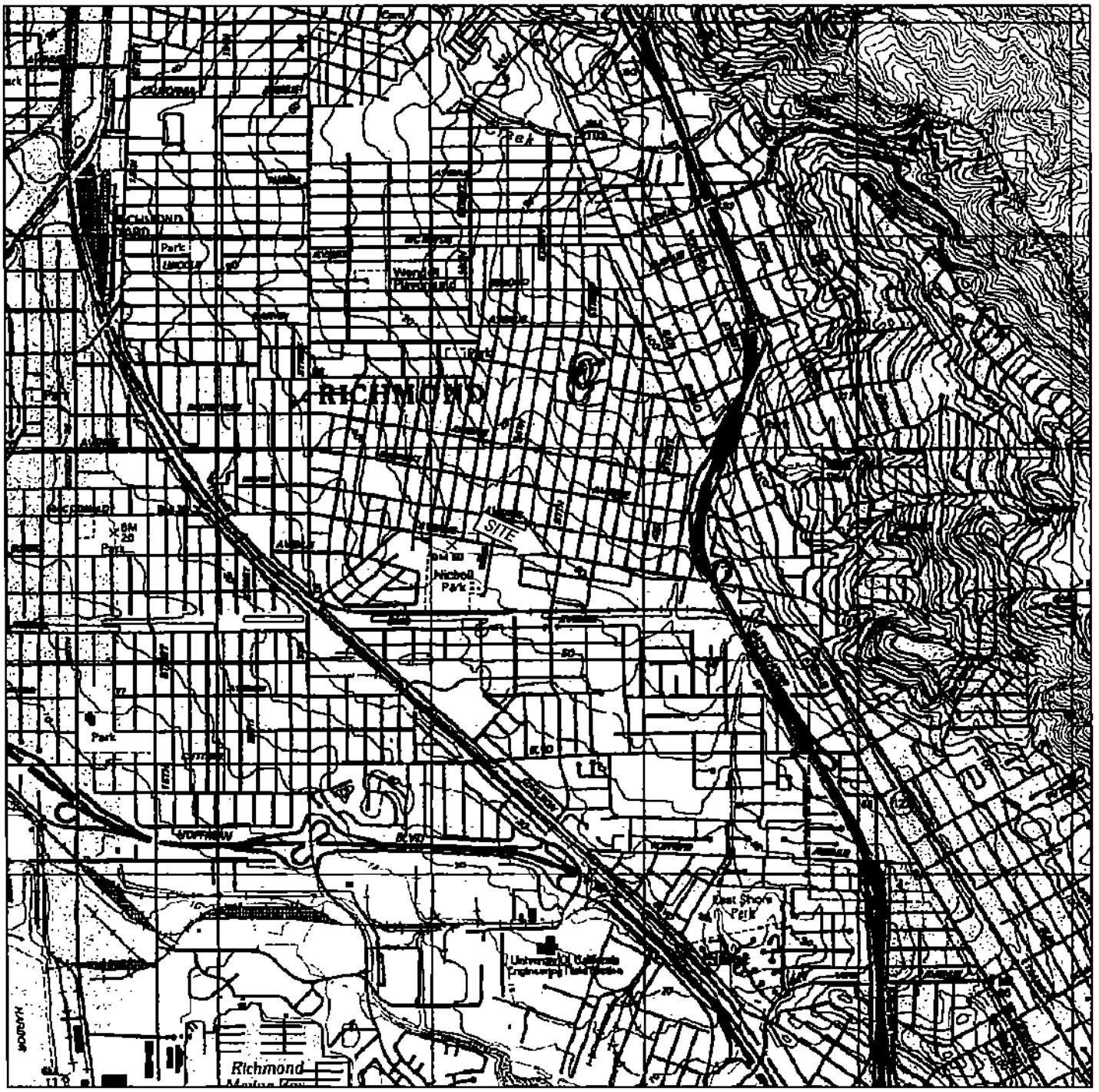
Water generated during well sampling and equipment cleaning was pumped into a SECOR truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental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

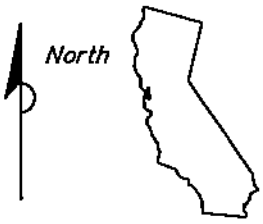
ATTACHMENTS

Figures
Tables
Attachment A – Monitoring and Sampling Field Notes
Attachment B – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C – Oxygen Injection Field Notes

cc: Ms. Barbara Sieminski, Regional Water Quality Control Board, San Francisco Bay Region
Mr. Paul Andrews, Contra Costa County Environmental Health Division
Mr. John Wainwright, SECOR, 308 East 4500 South, Suite 100, Murray, Utah 84107-3957

FIGURES





1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, MONTEREY, CALIFORNIA

SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/861-0430 (FAX)	FOR: 7-ELEVEN FACILITY #20244 3625 MacDONALD AVENUE RICHMOND, CALIFORNIA		SITE LOCATION MAP		FIGURE: 1
	JOB NUMBER: 77EL.20244.05	DRAWN BY: MDR	CHECKED BY: JSA	APPROVED BY: JSA	DATE: 3/28/05

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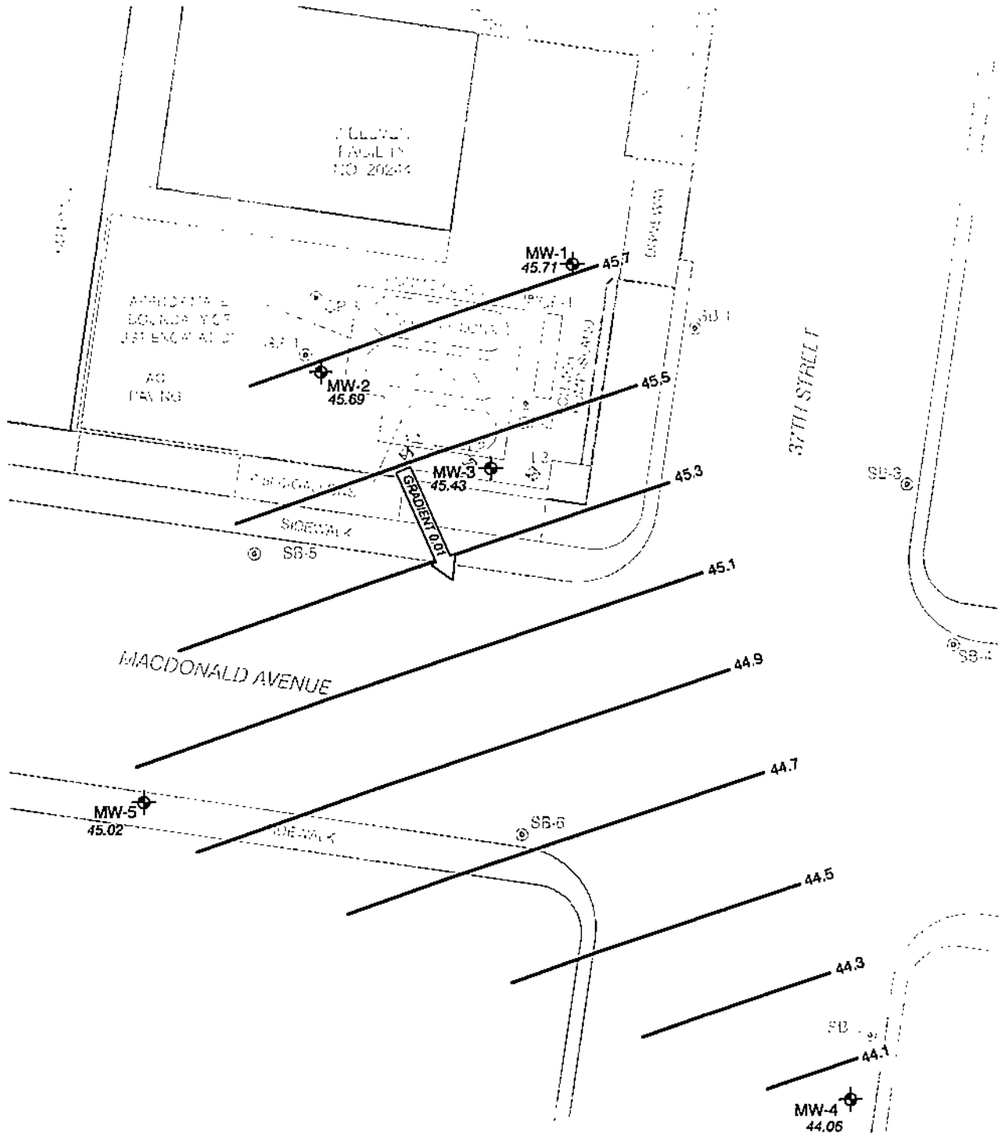

LEGEND:

- MONITORING WELL
- SOIL BORING
- OXYGEN INJECTION WELL
- GRADIENT — APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT FT/FT
- 0.0 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- 0.0 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 30 60

SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED SEPTEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.

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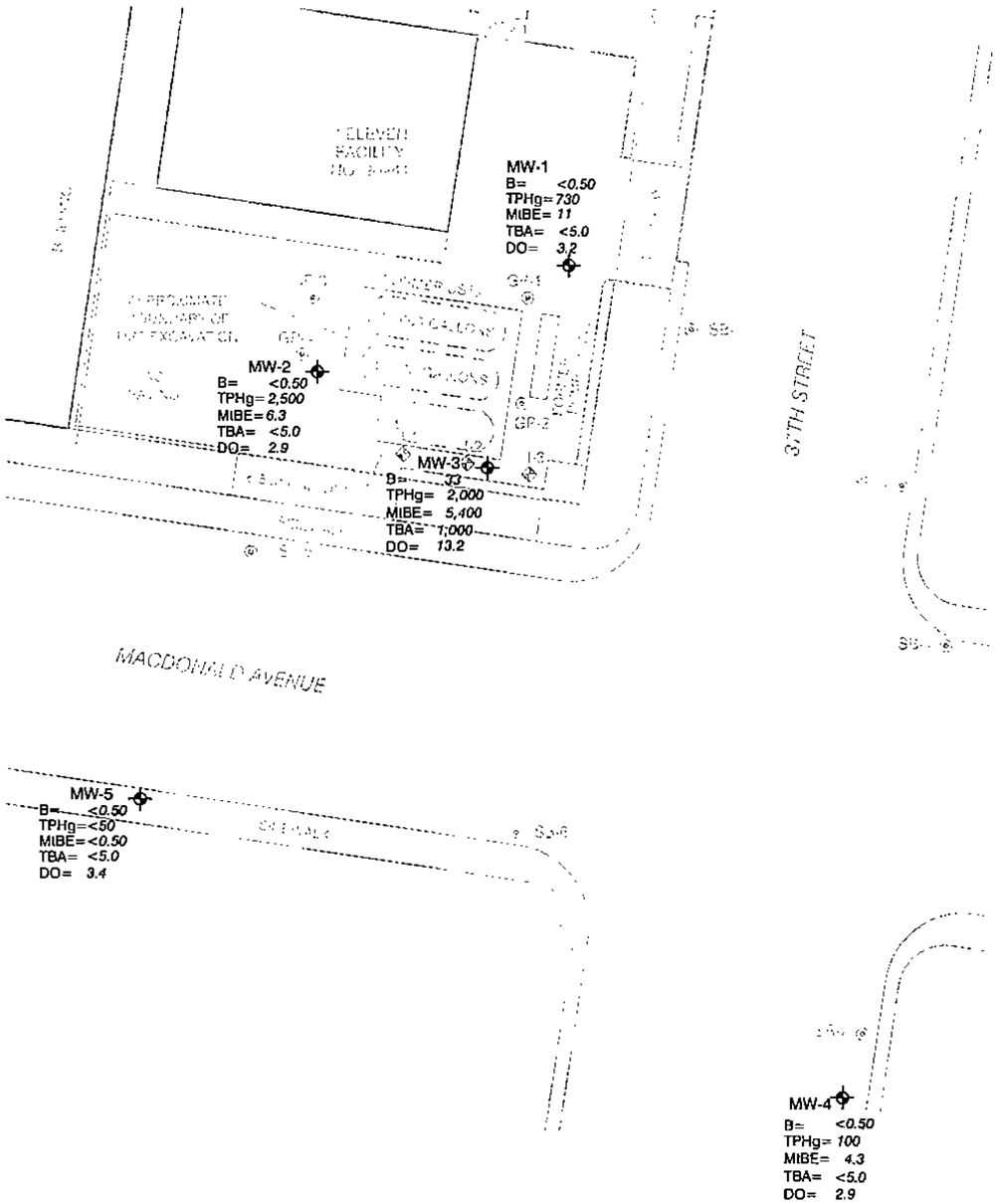
FOR:
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MacDONALD AVENUE
RICHMOND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 26, 2005

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77EL.20244.05	MDR	CR	DB	4/07/05



LEGEND:

⊕	MONITORING WELL
	SOIL BORING
	OXYGEN INJECTION WELL
B	BENZENE (µg/L)
TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (µg/L)
MIBE	METHYL-TERT-BUTYL-ETHER (µg/L)
TBA	TERT-BUTYL ALCOHOL (µg/L)
DO	DISSOLVED OXYGEN (mg/L)
µg/L	MICROGRAMS PER LITER
mg/L	MILLIGRAMS PER LITER

N

0 30 60

SCALE IN FEET

REFERENCE: THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY SHAW E & I, INC., DATED SEPTEMBER 2002, AND IS INTENDED FOR ILLUSTRATION ONLY.

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FOR:
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MacDONALD AVENUE
RICHMOND, CALIFORNIA

GROUNDWATER HYDROCARBON CONCENTRATION MAP SEPTEMBER 26, 2005

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77EL.20244.05	MDR	BH	DB	4/07/05

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TABLES

Table 1
Third Quarter 2005 Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (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 59.86	09/26/05	<0.50	<0.50	<0.50	<0.50	**730**	**11**	<5.0	**4.1**	<0.50	<0.50	c	3.2	14.15	0.00	45.71
MW-2 59.65	09/26/05	<0.50	<0.50	<0.50	<0.50	**2,500**	**6.3**	<5.0	**0.72**	<0.50	<0.50	c	2.9	13.96	0.00	45.69
MW-3 59.59	09/26/05	**33**	<15	**220**	**76**	**2,000**	**5,400**	**1,000**	<15	<15	<15		13.2	14.16	0.00	45.43
MW-4 59.20	09/26/05	<0.50	<0.50	<0.50	<0.50	**100**	**4.3**	<5.0	<0.50	<0.50	<0.50	c	2.9	15.14	0.00	44.06
MW-5 58.94	09/26/05	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50		3.4	13.92	0.00	45.02

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline
MtBE = Methyl-tert-butyl ether
TBA = Tert-butanol
DIPE = Diisopropyl ether
EtBE = Ethyl-tert-butyl ether
TAME = Tert-amyl-methyl ether
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
WTE = Water table elevation
TOC = Top of casing elevation in feet above mean sea level
µg/L = micrograms per liter
mg/L = milligrams per liter

Notes:

Samples analyzed by EPA Method 8260B
c = Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for samples MW-1, MW-2 and MW-4

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
Geoprobe Water Samples																			
GP-1W	05/20/98	12	7.9	15	0.68	1,400	83	--	--	--	--	--	--	--		--	--	--	--
GP-2W	05/20/98	19	72	29	72	11,000	6,500	4,800	<5,000	<250	<250	<250	--	--		--	--	--	--
GP-3W	05/20/98	2.5	1.1	<0.5	<0.6	470	55	--	--	--	--	--	--	--		--	--	--	--
GP-4W	05/20/98	0.5	2.4	11	43	1,400	2,500	--	--	--	--	--	--	--		--	--	--	--
Soil Boring Water Samples																			
SB-1W	09/17/99	<0.3	<0.3	<0.3	<0.6	121	<5	<5	<20	<5	<5	<5	--	--		--	--	--	--
SB-2W	09/17/99	0.78	1.16	<0.3	1.17	<50	6.93	6.79	<20	<5	<5	<5	--	--		--	--	--	--
SB-3W	09/17/99	1.12	<0.3	0.53	1.68	105	<5	<5	<20	<5	<5	<5	--	--		--	--	--	--
SB-4W	09/17/99	<0.3	3.65	0.85	4.6	781	<5	<5	<20	<5	<5	<5	--	--		--	--	--	--
SB-5W	09/17/99	<0.3	0.5	<0.3	<0.6	199	5.57	5.61	<20	<5	<5	<5	--	--		--	--	--	--

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
Monitoring Well Samples																			
MW-1																			
59.86	03/19/99	<0.3	<0.3	<0.3	<0.6	185	–	33.6	<20	10.4	<5	<5	--	–		1.5	10.34	0.00	49.52
	05/31/99	<0.3	<0.3	<0.3	<0.6	465	--	105	<20	18.6	<5	<5	–	--		1.0	12.77	0.00	47.09
	09/15/99	1.55	0.38	0.48	1.43	254	56.4	47.9	<20	14.5	<5	<5	–	–		–	14.60	0.00	45.26
	12/14/99	1.31	0.93	1.32	<0.6	351	51.6	34.7	<20	23.2	<5	<5	<1	<1		1.6	19.99	0.00	39.87
	03/01/00	<0.3	<0.3	<0.3	<0.6	249	10.9	13.2	<20	<5	<5	<5	--	--	a	1.7	8.15	0.00	51.71
	03/29/00	–	--	--	–	–	--	–	--	--	--	–	--	–		–	10.66	0.00	49.20
	06/05/00	<0.5	<0.5	<0.5	<1	140	–	29	<50	7.8	<2	<2	–	–		1.2	12.50	0.00	47.36
	09/18/00	<0.5	<0.5	<0.5	<1	360	–	55	<120	26	<5	<5	--	--		0.3	14.30	0.00	45.56
	12/04/00	<0.5	<0.5	<0.5	<1.5	180	--	21	<120	18	<5	<5	--	--		0.4	14.50	0.00	45.36
	03/12/01	<0.5	<0.5	<0.5	<1	120	–	13	<50	<2	<2	<2	–	–		0.5	10.30	0.00	49.56
	06/05/01	0.7	<0.5	<0.5	1	170	--	56	<50	20	<2	<2	–	–		0.6	14.00	0.00	45.86
	09/21/01	<0.5	<0.5	<0.5	<0.5	<50	--	130	23	26	<5	<5	--	--		0.6	15.70	0.00	44.16
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	--	14	<20	7.4	<5	<5	–	–		1.5	11.60	0.00	48.26
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	--	35	<20	18	<5	<5	–	–		1.3	11.91	0.00	47.95
	06/06/02	<0.5	<0.5	<0.5	<0.5	180	35	31	<10	13	<1	<1	–	–		–	13.35	0.00	46.51
	09/06/02	<0.5	0.85	<0.5	<0.5	190	27	27	7.4	13	<0.5	<0.5	–	–		1.1	14.82	0.00	45.04
	11/22/02	<0.5	<0.5	<0.5	<0.5	400	--	13	<5	9.9	<0.5	<0.5	–	–		1.0	14.82	0.00	45.04
	03/26/03	<0.50	<0.50	<0.50	<0.50	870	--	34	<5.0	6.3	<0.50	<0.50	--	--	c	0.3	11.91	0.00	47.95
	06/02/03	<0.50	<0.50	<0.50	<0.50	850	--	53	6.4	11	<0.50	<0.50	--	–	c	1.4	12.74	0.00	47.12
	09/02/03	<0.50	<0.50	<0.50	<0.50	730	--	25	<5.0	9.5	<0.50	<0.50	–	–	b,c	0.9	14.18	0.00	45.68
	12/22/03	<0.50	<0.50	<0.50	<0.50	640	–	9.9	<5.0	5.1	<0.50	<0.50	–	--	c	1.1	12.20	0.00	47.66
	03/10/04	<0.50	<0.50	<0.50	<0.50	380	–	24	<5.0	7.3	<0.50	<0.50	--	--	c	0.3	10.66	0.00	49.20
	06/16/04	--	–	–	–	–	–	–	–	–	–	–	–	--		–	–	–	–
	09/27/04	<0.50	<0.50	<0.50	<0.50	460	–	22	<5.0	19	<0.50	<0.50	–	--	c	0.4	14.95	0.00	44.91
	12/15/04	<0.50	<0.50	<0.50	<0.50	590	--	15	<5.0	3.5	<0.50	<0.50	–	–	c	2.4	12.14	0.00	47.72
	03/21/05	<0.50	<0.50	<0.50	<0.50	610	–	16	<5.0	4.4	<0.50	<0.50	--	–	c, e	2.8	10.30	0.00	49.56
	06/06/05	<0.50	<0.50	<0.50	<0.50	740	–	16	5.2	14	<0.50	<0.50	–	--	c	1.7	12.15	0.00	47.71
	09/26/05	<0.50	<0.50	<0.50	<0.50	730	–	11	<5.0	4.1	<0.50	<0.50	–	--	c	3.2	14.15	0.00	45.71

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-2																			
59.65	03/19/99	<0.3	<0.3	<0.3	<0.6	384	--	83.9	<20	<5	<5	<5	--	--		1.8	10.16	0.00	49.49
	05/31/99	<0.3	<0.3	<0.3	<0.6	578	--	262	<80	<20	<20	<20	--	--		1.7	12.60	0.00	47.05
	09/15/99	1.75	0.44	1.06	1.56	362	271	335	<20	<5	<5	<5	--	--		--	14.44	0.00	45.21
	12/14/99	1.03	0.57	1.05	<0.6	566	296	296	<40	<10	<10	<10	<2	<2		1.8	20.04	0.00	39.61
	03/01/00	<0.3	<0.3	<0.3	<0.6	434	63.3	71	<20	<5	<5	<5	--	--	a	1.8	8.10	0.00	51.55
	03/29/00	--	--	--	--	--	--	--	--	--	--	--	--	--		--	10.48	0.00	49.17
	06/05/00	<5	<5	<5	<10	400	--	500	<500	<20	<20	<20	--	--		1.5	12.33	0.00	47.32
	09/18/00	<0.5	<0.5	<0.5	<1	920	--	800	<620	<25	<25	<25	--	--		0.4	14.16	0.00	45.49
	12/04/00	<0.5	<0.5	<0.5	<1.5	480	--	400	<620	<25	<25	<25	--	--		0.5	14.37	0.00	45.28
	03/12/01	<0.5	<0.5	<0.5	<1	300	--	150	<100	<2	<4	<4	--	--		0.7	10.12	0.00	49.53
	06/05/01	1.5	<1	1.9	<2	440	--	410	<250	<10	<10	<10	--	--		0.8	13.85	0.00	45.80
	09/21/01	1.6	0.67	<0.5	0.52	<50	--	390	<100	<25	<25	<25	--	--		0.5	15.52	0.00	44.13
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	--	130	<20	<5	<5	<5	--	--		1.0	11.50	0.00	48.15
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	--	180	<20	<5	<5	<5	--	--		1.2	11.75	0.00	47.90
	06/06/02	<0.5	<0.5	<0.5	<0.5	400	120	120	<25	<2.5	<2.5	<2.5	--	--		--	13.18	0.00	46.47
	09/06/02	<0.5	<0.5	<0.5	<0.5	390	93	130	<25	<2.5	<2.5	<2.5	--	--		1.1	14.64	0.00	45.01
	11/22/02	<0.5	<0.5	<0.5	<0.5	670	--	78	<5	1.3	<0.5	<0.5	--	--		0.9	14.80	0.00	44.85
	03/26/03	<0.50	<0.50	<0.50	<0.50	1,800	--	45	<5.0	0.98	<0.50	<0.50	--	--	c	0.4	11.74	0.00	47.91
	06/02/03	<0.50	<0.50	<0.50	<0.50	1,800	--	39	<5.0	0.96	<0.50	<0.50	--	--	c	1.6	12.56	0.00	47.09
	09/02/03	<0.50	<0.50	<0.50	<0.50	1,300	--	44	<5.0	1.6	<0.50	<0.50	--	--	b,c	0.4	13.99	0.00	45.66
	12/22/03	<0.50	<0.50	<0.50	<0.50	1,100	--	26	<5.0	0.84	<0.50	<0.50	--	--	c	0.5	12.03	0.00	47.62
	03/10/04	<0.50	<0.50	<0.50	<0.50	1,100	--	18	<5.0	0.83	<0.50	<0.50	--	--	c	0.4	10.49	0.00	49.16
	06/16/04	<0.50	<0.50	<0.50	<0.50	1,300	--	19	<5.0	0.61	<0.50	<0.50	--	--	c	0.6	13.57	0.00	46.08
	09/27/04	<0.50	<0.50	<0.50	<0.50	1,200	--	20	<5.0	1.5	<0.50	<0.50	--	--	c	0.2	14.76	0.00	44.89
	12/15/04	<0.50	<0.50	<0.50	<0.50	1,600	--	14	<5.0	0.72	<0.50	<0.50	--	--	c	1.1	11.97	0.00	47.68
	03/21/05	<0.50	<0.50	<0.50	<0.50	2,300	--	14	<5.0	0.79	<0.50	<0.50	--	--	c, e	1.8	10.25	0.00	49.40
	06/06/05	<0.50	<0.50	<0.50	<0.50	2,000	--	12	<5.0	0.94	<0.50	<0.50	--	--	c	1.7	11.98	0.00	47.67
	09/26/05	<0.50	<0.50	<0.50	<0.50	2,500	--	6.3	<5.0	0.72	<0.50	<0.50	--	--	c	2.9	13.96	0.00	45.69

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-3																			
59.59	03/19/99	696	786	552	777	62,400	–	84,400	<8,000	<2,000	<2,000	<2,000	–	--		1.0	10.73	0.00	48.86
	05/31/99	664	406	435	402	39,200	–	92,800	<20,000	<5,000	<5,000	<5,000	–	–		1.2	12.91	0.00	46.68
	09/15/99	386	104	263	206	34,100	65,200	80,100	<8,000	<2,000	<2,000	<2,000	--	--		--	14.54	0.00	45.05
	12/14/99	515	<30	310	67	27,600	97,000	81,900	<10,000	<2,500	<2,500	<2,500	<500	<500		1.9	20.03	0.00	39.56
	03/01/00	701	744	509	927	47,300	63,300	59,100	<2,000	<500	<500	<500	–	–	a	2.0	11.24	0.00	48.35
	03/29/00	–	--	–	–	--	–	--	--	--	–	–	–	–		–	10.58	0.00	49.01
	06/05/00	770	74	120	<10	15,000	–	54,000	<50,000	<2,000	<2,000	<2,000	–	–		1.7	11.88	0.00	47.71
	09/18/00	300	<5	110	<10	23,000	--	47,000	<50,000	<2,000	<2,000	<2,000	–	--		0.3	15.38	0.00	44.21
	12/04/00	490	13	360	86	22,000	--	42,000	<50,000	<2,000	<2,000	<2,000	--	--		0.5	14.32	0.00	45.27
	03/12/01	370	95	180	180	17,000	–	52,000	<50,000	<2	<2,000	<2,000	--	--		0.7	11.20	0.00	48.39
	06/05/01	310	<12	100	<25	17,000	–	47,000	<62,000	<2,500	<2,500	<2,500	–	–		0.5	14.46	0.00	45.13
	09/21/01	240	<10	120	<10	9,900	--	69,000	<10,000	<2,500	<2,500	<2,500	–	--		0.4	15.57	0.00	44.02
	12/05/01	430	<5	310	19	6,100	–	75,000	<10,000	<2,500	<2,500	<2,500	--	--		0.9	12.10	0.00	47.49
	03/01/02	580	270	390	<10	11,000	–	35,000	<10,000	<2,500	<2,500	<2,500	--	–		1.1	12.42	0.00	47.17
	06/06/02	510	76	370	24	7,500	40,000	37,000	<10,000	<1,000	<1,000	<1,000	--	–		–	13.70	0.00	45.89
	09/06/02	340	33	220	<10	2,900	36,000	43,000	<10,000	<1,000	<1,000	<1,000	–	–		1.0	14.78	0.00	44.81
	11/22/02	330	<50	210	<50	<5,000	–	35,000	840	<50	<50	<50	--	–		0.9	14.93	0.00	44.66
	03/26/03	490	<100	310	<100	<10,000	–	47,000	<1,000	<100	<100	<100	–	–		0.2	11.99	0.00	47.60
	06/02/03	400	<100	290	<100	<10,000	--	41,000	<1,000	<100	<100	<100	–	–		0.3	12.71	0.00	46.88
	09/02/03	160	<100	<100	<100	<10,000	–	43,000	<1,000	<100	<100	<100	--	–		0.2	14.16	0.00	45.43
	12/22/03	270	<50	130	<50	<5,000	–	34,000	<500	<50	<50	<50	--	–		0.5	12.34	0.00	47.25
	03/10/04	380	6.0	280	21	4,700	--	42,000	860	1.2	12	42	–	–	d	0.2	11.83	0.00	47.76
	06/16/04	360	<100	260	<100	<10,000	–	38,000	<1,000	<100	<100	<100	--	–		0.5	13.80	0.00	45.79
	09/27/04	340	<50	360	<50	<5000	–	25,000	7,600	<50	<50	<50	--	--		0.1	14.95	0.00	44.64
	12/15/04	310	<50	270	76	5,300	–	18,000	6,200	<50	<50	<50	–	–		0.9	12.28	0.00	47.31
	03/21/05	120	<50	200	61	<5,000	--	18,000	950	<50	<50	<50	–	–		7.2	10.25	0.00	49.34
	06/06/05	220	<15	800	380	6,100	--	9,100	990	<15	<15	<15	--	–		20.1	12.08	0.00	47.51
	09/26/05	33	<15	220	76	2,000	–	5,400	1,000	<15	<15	<15	--	--		13.2	14.16	0.00	45.43

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-4																			
59.20	09/21/01	3.3	<0.5	2.4	0.84	210	--	1,100	<100	<25	<25	<25	--	--		0.7	16.10	0.00	43.10
	12/05/01	<0.5	<0.5	<0.5	0.65	92	--	<5	<20	<5	<5	<5	--	--		0.7	13.55	0.00	45.65
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	--	<5	<20	<5	<5	<5	--	--		0.9	13.73	0.00	45.47
	06/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.62	<5	<0.5	<0.5	<0.5	--	--		--	14.50	0.00	44.70
	09/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	<0.5	<5	<0.5	<0.5	<0.5	--	--		1.0	15.35	0.00	43.85
	11/22/02	<0.5	<0.5	<0.5	<0.5	<50	--	0.64	<5	<0.5	<0.5	<0.5	--	--		1.3	15.42	0.00	43.78
	03/26/03	<0.50	<0.50	<0.50	<0.50	<50	--	0.93	<5.0	<0.50	<0.50	<0.50	--	--	b	0.3	13.58	0.00	45.62
	06/02/03	<0.50	<0.50	<0.50	<0.50	<50	--	1.1	<5.0	<0.50	<0.50	<0.50	--	--		1.8	14.23	0.00	44.97
	09/02/03	<0.50	<0.50	<0.50	<0.50	<50	--	1.6	<5.0	<0.50	<0.50	<0.50	--	--	b	1.7	14.74	0.00	44.46
	12/22/03	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--
	03/10/04	<0.50	<0.50	<0.50	<0.50	<50	--	0.89	<5.0	<0.50	<0.50	<0.50	--	--		0.3	12.99	0.00	46.21
	06/16/04	<0.50	<0.50	<0.50	<0.50	<50	--	1.9	<5.0	<0.50	<0.50	<0.50	--	--		0.8	14.91	0.00	44.29
	09/27/04	<0.50	<0.50	<0.50	<0.50	72	--	2.5	<5.0	<0.50	<0.50	<0.50	--	--	c	0.9	15.61	0.00	43.59
	12/15/04	<0.50	<0.50	<0.50	<0.50	<50	--	0.59	<5.0	<0.50	<0.50	<0.50	--	--		1.8	13.90	0.00	45.30
	03/21/05	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	e	2.4	12.65	0.00	46.55
	06/06/05	<0.50	<0.50	<0.50	<0.50	<50	--	0.80	<5.0	<0.50	<0.50	<0.50	--	--		0.5	13.92	0.00	45.28
	09/26/05	<0.50	<0.50	<0.50	<0.50	100	--	4.3	<5.0	<0.50	<0.50	<0.50	--	--	c	2.9	15.14	0.00	44.06
MW-5																			
58.94	09/21/01	1.1	0.52	1.4	1.6	<50	--	<5	<20	<5	<5	<5	--	--		0.5	15.35	0.00	43.59
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	--	<5	<20	<5	<5	<5	--	--		1.1	12.60	0.00	46.34
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	--	<5	<20	<5	<5	<5	--	--		1.0	12.43	0.00	46.51
	06/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.65	<5	<0.5	<0.5	<0.5	--	--		--	13.40	0.00	45.54
	09/06/02	<0.5	<0.5	<0.5	<0.5	<50	<5	0.53	<5	<0.5	<0.5	<0.5	--	--		1.0	14.50	0.00	44.44
	11/22/02	<0.5	<0.5	<0.5	<0.5	<50	--	0.75	<5	<0.5	<0.5	<0.5	--	--		1.0	14.92	0.00	44.02
	03/26/03	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	b	0.5	12.20	0.00	46.74
	06/02/03	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		3.4	12.96	0.00	45.98
	09/02/03	<0.50	<0.50	<0.50	<0.50	<50	--	0.79	<5.0	<0.50	<0.50	<0.50	--	--	b	0.7	13.93	0.00	45.01
	12/22/03	<0.50	<0.50	<0.50	<0.50	<50	--	0.72	<5.0	<0.50	<0.50	<0.50	--	--		0.3	12.61	0.00	46.33
	03/10/04	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		0.3	11.26	0.00	47.68
	06/16/04	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		0.7	13.79	0.00	45.15
	09/27/04	<0.50	<0.50	<0.50	<0.50	<50	--	0.56	<5.0	<0.50	<0.50	<0.50	--	--		0.2	14.87	0.00	44.07
	12/15/04	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		2.3	12.40	0.00	46.54
	03/21/05	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--	e	1.9	10.83	0.00	48.11
	06/06/05	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		0.1	12.33	0.00	46.61
	09/26/05	<0.50	<0.50	<0.50	<0.50	<50	--	<0.50	<5.0	<0.50	<0.50	<0.50	--	--		3.4	13.92	0.00	45.02

Table 2
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylene (µg/L)	TPHg (µg/L)	MtBE 8020 (µg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline
MtBE = Methyl-tert-butyl ether
TBA = Tert-butanol
DIPE = Diisopropyl ether
EtBE = Ethyl-tert-butyl ether
TAME = Tert-amyl-methyl ether
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
WTE = Water table elevation
TOC = Top of casing elevation in feet above mean sea level
µg/L = micrograms per liter
mg/L = milligrams per liter
-- = Not sampled/not measured

Notes

Historical data prior to 03/26/03 sample date provided by Shaw E&I.
Samples analyzed using EPA Method 8260B starting with 03/26/03 sample date.
a = Suspected malfunction of gauging probe on 03/01/00; wells regauged 03/29/00.
b = Matrix Spike/Matrix Spike Duplicate Results for MtBE were affected by the analyte concentration already present in the un-spiked sample.
c = Hydrocarbons reported as TPHg do not exhibit a typical Gasoline chromatographic pattern.
d = TBA may be biased slightly high. A fraction of MtBE (typically less than 1%) converts to TBA during the analysis of water samples. Kiff considers this conversion effect to be mathematically significant in samples that contain MtBE/TBA in ratios of over 20:1.
e = Matrix Spike/Matrix Spike Duplicate Results for the analyte Benzene were affected by the analyte concentration already present in the un-spiked sample.

Table 3
Soil Boring and Well Construction Details

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well I.D.	Drill Date	Well Depth (feet bgs)	Well Diameter (inches)	Screen Top (feet bgs)	Screen Bottom (feet bgs)	Screen Length (feet)	Comments
Soil Borings							
GP-1	05/20/98	21	1.5	--	--	--	Geoprobe boring
GP-2	05/20/98	21	1.5	--	--	--	Geoprobe boring
GP-3	05/20/98	16	1.5	--	--	--	Geoprobe boring
GP-4	05/20/98	18	1.5	--	--	--	Geoprobe boring
SB-1	09/17/99	19.5	1.5	--	--	--	Soil boring
SB-2	09/17/99	20	1.5	--	--	--	Soil boring
SB-3	09/17/99	28	1.5	--	--	--	Soil boring
SB-4	09/17/99	20	1.5	--	--	--	Soil boring
SB-5	09/17/99	20	2	--	--	--	Soil boring
SB-6	09/17/99	24	2	--	--	--	Soil boring
Monitoring Wells							
MW-1	01/22/99	20	2	5	20	15	
MW-2	01/22/99	20	2	5	20	15	
MW-3	01/22/99	20	2	5	20	15	
MW-4	08/24/01	24.5	2	14.5	24.5	10	
MW-5	08/24/01	24.5	2	14.5	24.5	10	
Oxygen Injection Wells							
I-1	12/15/04	27	0.75	24.5	27	2.5	Ceramic steel diffusion tip
I-2	12/14/04	27	0.75	24.5	27	2.5	Ceramic steel diffusion tip
I-3	12/14/04	27	0.75	24.5	27	2.5	Ceramic steel diffusion tip

Explanation
Wells are of poly-vinyl-chloride (PVC) construction
bgs = Below ground surface

Table 4
Oxygen Injection Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well Number	Date of Injection	Oxygen Injection Data: Oxygen Volume Injected (ft^3)	Mass Injected (pounds)	Length of Injection (hours)	Cumulative Mass Oxygen Injected (pounds)	Comments
I-1	01/11/05	150	13.4	1.0	13.4	I-1 Injected Alone
	01/25/05	150	13.4	1.0	26.7	I-1 Injected Alone
	02/08/05	150	13.4	1.0	40.1	I-1 and I-2 Injected Simultaneously
	02/23/05	150	13.4	1.0	53.4	I-1, I-2 and I-3 Injected Simultaneously
	03/08/05	150	13.4	1.0	66.8	I-1, I-2 and I-3 Injected Simultaneously
	03/22/05	150	13.4	1.0	80.1	I-1, I-2 and I-3 Injected Simultaneously
	04/05/05	150	13.4	1.0	93.5	I-1, I-2 and I-3 Injected Simultaneously
	04/19/05	150	13.4	1.0	106.8	I-1, I-2 and I-3 Injected Simultaneously
	05/03/05	150	13.4	1.0	120.2	I-1, I-2 and I-3 Injected Simultaneously
	05/17/05	150	13.4	1.0	133.5	I-1, I-2 and I-3 Injected Simultaneously
	06/01/05	150	13.4	1.0	146.9	I-1, I-2 and I-3 Injected Simultaneously
	06/14/05	150	13.4	1.0	160.2	I-1, I-2 and I-3 Injected Simultaneously
	06/29/05	150	13.4	1.0	173.6	I-1, I-2 and I-3 Injected Simultaneously
	07/12/05	150	13.4	1.0	186.9	I-1, I-2 and I-3 Injected Simultaneously
	07/27/05	150	13.4	1.0	200.3	I-1, I-2 and I-3 Injected Simultaneously
	08/09/05	150	13.4	0.5	213.6	I-1, I-2 and I-3 Injected Simultaneously
	08/23/05	150	13.4	1.0	227.0	I-1, I-2 and I-3 Injected Simultaneously
	09/07/05	150	13.4	0.5	240.3	I-1, I-2 and I-3 Injected Simultaneously
	09/21/05	150	13.4	0.5	253.7	I-1, I-2 and I-3 Injected Simultaneously
I-2	01/11/05	150	13.4	1.0	13.4	I-2 Injected Alone
	01/25/05	150	13.4	1.0	26.7	I-2 Injected Alone
	02/08/05	150	13.4	1.0	40.1	I-1 and I-2 Injected Simultaneously
	02/23/05	150	13.4	1.0	53.4	I-1, I-2 and I-3 Injected Simultaneously
	03/08/05	150	13.4	1.0	66.8	I-1, I-2 and I-3 Injected Simultaneously
	03/22/05	150	13.4	1.0	80.1	I-1, I-2 and I-3 Injected Simultaneously
	04/05/05	150	13.4	1.0	93.5	I-1, I-2 and I-3 Injected Simultaneously
	04/19/05	150	13.4	1.0	106.8	I-1, I-2 and I-3 Injected Simultaneously
	05/03/05	150	13.4	1.0	120.2	I-1, I-2 and I-3 Injected Simultaneously
	05/17/05	150	13.4	1.0	133.5	I-1, I-2 and I-3 Injected Simultaneously
	06/01/05	150	13.4	1.0	146.9	I-1, I-2 and I-3 Injected Simultaneously
	06/14/05	150	13.4	1.0	160.2	I-1, I-2 and I-3 Injected Simultaneously
	06/29/05	150	13.4	1.0	173.6	I-1, I-2 and I-3 Injected Simultaneously
	07/12/05	150	13.4	1.0	186.9	I-1, I-2 and I-3 Injected Simultaneously
	07/27/05	150	13.4	1.0	200.3	I-1, I-2 and I-3 Injected Simultaneously
	08/09/05	150	13.4	0.5	213.6	I-1, I-2 and I-3 Injected Simultaneously
	08/23/05	150	13.4	1.0	227.0	I-1, I-2 and I-3 Injected Simultaneously
	09/07/05	150	13.4	0.5	240.3	I-1, I-2 and I-3 Injected Simultaneously
	09/21/05	150	13.4	0.5	253.7	I-1, I-2 and I-3 Injected Simultaneously

Table 4
Oxygen Injection Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well Number	Date of Injection	Oxygen Injection Data: Oxygen Volume Injected (ft^3)	Mass Injected (pounds)	Length of Injection (hours)	Cumulative Mass Oxygen Injected (pounds)	Comments
I-3	01/11/05	150	13.4	0.8	13.4	I-3 Injected Alone
	01/25/05	150	13.4	1.0	26.7	I-3 Injected Alone
	02/08/05	150	13.4	0.8	40.1	I-3 Injected Alone
	02/23/05	150	13.4	1.0	53.4	I-1, I-2 and I-3 Injected Simultaneously
	03/08/05	150	13.4	1.0	66.8	I-1, I-2 and I-3 Injected Simultaneously
	03/22/05	150	13.4	1.0	80.1	I-1, I-2 and I-3 Injected Simultaneously
	04/05/05	150	13.4	1.0	93.5	I-1, I-2 and I-3 Injected Simultaneously
	04/19/05	150	13.4	1.0	106.8	I-1, I-2 and I-3 Injected Simultaneously
	05/03/05	150	13.4	1.0	120.2	I-1, I-2 and I-3 Injected Simultaneously
	05/17/05	150	13.4	1.0	133.5	I-1, I-2 and I-3 Injected Simultaneously
	06/01/05	150	13.4	1.0	146.9	I-1, I-2 and I-3 Injected Simultaneously
	06/14/05	150	13.4	1.0	160.2	I-1, I-2 and I-3 Injected Simultaneously
	06/29/05	150	13.4	1.0	173.6	I-1, I-2 and I-3 Injected Simultaneously
	07/12/05	150	13.4	1.0	186.9	I-1, I-2 and I-3 Injected Simultaneously
	07/27/05	150	13.4	1.0	200.3	I-1, I-2 and I-3 Injected Simultaneously
	08/09/05	150	13.4	0.5	213.6	I-1, I-2 and I-3 Injected Simultaneously
	08/23/05	150	13.4	1.0	227.0	I-1, I-2 and I-3 Injected Simultaneously
	09/07/05	150	13.4	0.5	240.3	I-1, I-2 and I-3 Injected Simultaneously
	09/21/05	150	13.4	0.5	253.7	I-1, I-2 and I-3 Injected Simultaneously
			761.0	Total Pounds Oxygen Injected		

Explanation

Dissolved Oxygen concentration measured using downhole meter
ft^3 = cubic feet
1 ft^3 O_2 = 0.089 lb of O_2

Table 5
Dissolved Oxygen Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well ID	Date of Injection	Dissolved Oxygen Pre-Injection (mg/L)	Dissolved Oxygen Post Injection (mg/L)	Comments
Dissolved Oxygen Monitoring Wells				
MW-1	01/11/05	2.4	3.8	Oxygen Injection Event
	01/12/05	–	4.2	Oxygen Injection Event
	01/25/05	2.5	3.8	Oxygen Injection Event
	01/26/05	–	3.7	Oxygen Injection Event
	02/08/05	2.6	3.9	Oxygen Injection Event
	02/23/05	1.2	3.1	Oxygen Injection Event
	03/08/05	1.8	3.8	Oxygen Injection Event
	03/22/05	2.6	3.4	Oxygen Injection Event
	04/05/05	2.8	3.2	Oxygen Injection Event
	04/19/05	3.1	4.0	Oxygen Injection Event
	05/03/05	3.8	5.0	Oxygen Injection Event
	05/17/05	5.0	6.1	Oxygen Injection Event
	06/01/05	2.8	4.9	Oxygen Injection Event
	06/14/05	1.9	4.4	Oxygen Injection Event
	06/29/05	0.9	4.1	Oxygen Injection Event
	07/12/05	1.1	4.1	Oxygen Injection Event
	07/27/05	1.1	42.0	Oxygen Injection Event
	08/09/05	0.9	0.2	Oxygen Injection Event
	08/23/05	1.1	1.3	Oxygen Injection Event
	09/07/05	0.7	1.3	Oxygen Injection Event
	09/21/05	1.1	1.1	Oxygen Injection Event
MW-2	01/11/05	2.7	3.7	Oxygen Injection Event
	01/12/05	–	3.9	Oxygen Injection Event
	01/25/05	3.0	4.2	Oxygen Injection Event
	01/26/05	–	4.4	Oxygen Injection Event
	02/08/05	3.4	4.4	Oxygen Injection Event
	02/23/05	1.8	3.8	Oxygen Injection Event
	03/08/05	2.0	4.0	Oxygen Injection Event
	03/22/05	2.4	4.0	Oxygen Injection Event
	04/05/05	2.6	4.2	Oxygen Injection Event
	04/19/05	3.0	5.5	Oxygen Injection Event
	05/03/05	3.7	5.2	Oxygen Injection Event
	05/17/05	4.8	6.4	Oxygen Injection Event
	06/01/05	3.1	5.4	Oxygen Injection Event
	06/14/05	1.1	6.7	Oxygen Injection Event
	06/29/05	0.7	5.5	Oxygen Injection Event
	07/12/05	0.9	5.0	Oxygen Injection Event
	07/27/05	0.5	0.9	Oxygen Injection Event
	08/09/05	0.6	0.4	Oxygen Injection Event
	08/23/05	0.9	1.0	Oxygen Injection Event
	09/07/05	0.8	0.8	Oxygen Injection Event
	09/21/05	0.8	1.1	Oxygen Injection Event

Table 5
Dissolved Oxygen Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well ID	Date of Injection	Dissolved Oxygen Pre-Injection (mg/L)	Dissolved Oxygen Post Injection (mg/L)	Comments
MW-3	01/11/05	2.5	7.0	Oxygen Injection Event
	01/12/05	–	2.0	Oxygen Injection Event
	01/25/05	4.1	8.2	Oxygen Injection Event
	01/26/05	–	7.8	Oxygen Injection Event
	02/08/05	8.0	17.6	Oxygen Injection Event
	02/23/05	2.9	14.9	Oxygen Injection Event
	03/08/05	3.3	16.0	Oxygen Injection Event
	03/22/05	7.0	16.6	Oxygen Injection Event
	04/05/05	6.5	18.5	Oxygen Injection Event
	04/19/05	9.5	20.1	Oxygen Injection Event
	05/03/05	10.0	20.9	Oxygen Injection Event
	05/17/05	15.5	28.7	Oxygen Injection Event
	06/01/05	10.3	28.2	Oxygen Injection Event
	06/14/05	16.8	32.2	Oxygen Injection Event
	06/29/05	13.9	33.3	Oxygen Injection Event
	07/12/05	1.7	25.3	Oxygen Injection Event
	07/27/05	1.1	44.0	Oxygen Injection Event
	08/09/05	18.9	42.9	Oxygen Injection Event
	08/23/05	19.3	43.1	Oxygen Injection Event
	09/07/05	20.2	41.7	Oxygen Injection Event
	09/21/05	19.5	39.5	Oxygen Injection Event
MW-4	01/11/05	3.6	–	Oxygen Injection Event
	01/12/05	–	4.2	Oxygen Injection Event
	01/25/05	3.0	–	Oxygen Injection Event
	01/26/05	–	3.8	Oxygen Injection Event
	02/08/05	3.0	3.0	Oxygen Injection Event
	02/23/05	1.6	–	Oxygen Injection Event
	03/08/05	1.2	–	Oxygen Injection Event
	03/22/05	2.2	–	Oxygen Injection Event
	04/05/05	1.8	–	Oxygen Injection Event
	04/19/05	1.8	–	Oxygen Injection Event
	05/03/05	2.1	–	Oxygen Injection Event
	05/17/05	–	–	Oxygen Injection Event
	06/01/05	–	–	Oxygen Injection Event
	06/14/05	–	–	Oxygen Injection Event
	06/29/05	–	–	Oxygen Injection Event
	07/12/05	–	–	Oxygen Injection Event
	07/27/05	–	–	Oxygen Injection Event
	08/09/05	–	–	Oxygen Injection Event
	08/23/05	–	–	Oxygen Injection Event
	09/07/05	–	–	Oxygen Injection Event
	09/21/05	–	–	Oxygen Injection Event

Table 5
Dissolved Oxygen Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well ID	Date of Injection	Dissolved Oxygen Pre-Injection (mg/L)	Dissolved Oxygen Post Injection (mg/L)	Comments
MW-5	01/11/05	2.4	–	Oxygen Injection Event
	01/12/05	–	2.6	Oxygen Injection Event
	01/25/05	2.4	–	Oxygen Injection Event
	01/26/05	–	2.8	Oxygen Injection Event
	02/08/05	2.2	2.2	Oxygen Injection Event
	02/23/05	0.8	–	Oxygen Injection Event
	03/08/05	0.8	–	Oxygen Injection Event
	03/22/05	2.0	–	Oxygen Injection Event
	04/05/05	1.6	–	Oxygen Injection Event
	04/19/05	1.6	–	Oxygen Injection Event
	05/03/05	1.8	–	Oxygen Injection Event
	05/17/05	–	–	Oxygen Injection Event
	06/01/05	–	–	Oxygen Injection Event
	06/14/05	–	–	Oxygen Injection Event
	06/29/05	–	–	Oxygen Injection Event
	07/12/05	–	–	Oxygen Injection Event
	07/27/05	–	–	Oxygen Injection Event
	08/09/05	–	–	Oxygen Injection Event
	08/23/05	–	–	Oxygen Injection Event
	09/07/05	–	–	Oxygen Injection Event
	09/21/05	–	–	Oxygen Injection Event

Explanation
Dissolved Oxygen concentration measured using downhole meter
mg/L = milligrams per liter
– = Not measured

ATTACHMENT A
MONITORING AND SAMPLING FIELD NOTES

Quarterly Groundwater Monitoring
Report - Third Quarter 2005
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	9/26/05
	Richmond, CA	DATE PREPARED:	09/08/05
PREPARED FOR:	~~Peng Vang~~ CORD DENNIG	PREPARED BY:	Colin Ryan

SITE VISITATION REPORT

Name(s) CORD DENNIG Date: 9/26/05 Did you call in? Yes No

Arrival Time: 1030 *Departure Time: Who did you call? Daniel Davis

Weather Notations: SUN CLOUDY RAIN SNOW Temperature 75° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Wore reflective vest, set up delineators for traffic control. Monitor foot and vehicle traffic while onsite.

CALIBRATION

Ec Calibration Reading 1413

pH Two Pt. Calibration: Reading1 7.01 Reading 2 4.01

DO Calibration

Pre-Calibration reading 7.8 Calibration Reading 8.2 Post Calibration Reading 8.1

Post M&S Agitated Water reading 8.8

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

1030 Arrive onsite, checkin with store manager, call Daniel Davis, decon. equipment.
1100 Open all wells, gauge all wells.
1130 Begin sampling/purging first well.
1422 Finish sampling, drop off water and trash.
1455 Left site.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	9/26/05
	Richmond, CA	DATE PREPARED:	09/08/05
PREPARED FOR:	~~Peng Vang~~ CORD DENNIG	PREPARED BY:	Colin Ryan

GROUNDWATER GAUGING FORM

MEASURED TO TOC OR GRADE? Top of Casing

WELL I.D.	CONST. DTB	WELL DIAM.	WELL ELEV. TOC	DTW	GAUGED DTB	DTP/PT	D.O. (mg/L)	80% RECHG.	ELEV WATER	COMMENTS (Please note if well needs locking cap or street box repair)
MW-5	25	2"	58.94	13.92	24.34		3.4			
MW-4	25	2"	59.20	15.14	24.18		2.9			
MW-1	20	2"	59.86	14.15	19.85		3.2			
MW-2	20	2"	59.65	13.96	20.05		2.9			
MW-3	20	2"	59.59	14.16	20.12		13.2			
	Estimated Purge Water Volume					21	gallons	0.44	Drums	

Please verify DTB in "Gauged DTB" column.

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: ~~Peng Vang~~ CORD DENNING WELL I.D.: MW-5

CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: ~~Peng Vang~~ CORD DENNING SAMPLE I.D.: MW-5

LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9/26/05 START (2400hr) 1130 END (2400hr) 1145

DATE SAMPLED 9/26/05 SAMPLE TIME (2400hr) 1201

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

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

DEPTH TO BOTTOM (feet) = 24.34 CASING VOLUME (gal) = 1.78

DEPTH TO WATER (feet) = 13.92 CALCULATED PURGE (gal) = 5.34

WATER COLUMN HEIGHT (feet) = 10.42 ACTUAL PURGE (gal) = 5.40

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9/26/05	1139	0	24.0	437	7.07	Semi Clear	Low
	1141	1.8	22.8	432	7.13	Semi Clear	Low
	1143	3.6	22.3	434	7.13	Semi Clear	Low
	1145	5.4	22.2	438	7.08	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.06 SAMPLE TURBIDITY: Low

80% RECHARGE: X YES ___ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: None 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.-3.4

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: ~~Peng Vang~~ CORD DENNING WELL I.D.: MW- 4

CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: ~~Peng Vang~~ CORD DENNING SAMPLE I.D.: MW- 4

LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9/26/05 START (2400hr) 1212 END (2400hr) 1227

DATE SAMPLED 9/26/05 SAMPLE TIME (2400hr) 1241

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

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

DEPTH TO BOTTOM (feet) = 24.18 CASING VOLUME (gal) = 1.54

DEPTH TO WATER (feet) = 15.14 CALCULATED PURGE (gal) = 4.62

WATER COLUMN HEIGHT (feet) = 9.04 ACTUAL PURGE (gal) = 4.80

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9/26/05	1221	0	22.2	391	6.98	Semi Clear	Low
	1223	1.6	22.0	330	6.75	Semi Clear	Low
	1225	3.2	21.6	345	6.67	Semi Clear	Low
	1227	4.8	21.7	352	6.71	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 15.31 SAMPLE TURBIDITY: Low

80% RECHARGE: X YES ____ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: None 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.-29

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: ~~Peng Vang~~ CORD DEUNG WELL I.D.: MW- 1

CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: ~~Peng Vang~~ CORD DEUNG SAMPLE I.D.: MW- 1

LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9/26/05 START (2400hr) 1252 END (2400hr) 1257

DATE SAMPLED 9/26/05 SAMPLE TIME (2400hr) 1304

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

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

DEPTH TO BOTTOM (feet) = 19.85 CASING VOLUME (gal) = 0.97

DEPTH TO WATER (feet) = 14.15 CALCULATED PURGE (gal) = 2.91

WATER COLUMN HEIGHT (feet) = 5.70 ACTUAL PURGE (gal) = 3.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9/26/05	1252	0	21.3	499	6.33	Semi Clear	Low
	1254	1	21.4	497	6.32	Semi Clear	Low
	1255	2	21.4	486	6.34	Semi Clear	Low
	1257	3	21.3	491	6.36	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.36 SAMPLE TURBIDITY: Low

80% RECHARGE: X YES ___ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: None 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. - 3.2

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: ~~Peng Vang~~ CORD DENNIG WELL I.D.: MW- 2

CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: ~~Peng Vang~~ CORD DENNIG SAMPLE I.D.: MW- 2

LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9/26/05 START (2400hr) 1315 END (2400hr) 1329

DATE SAMPLED 9/26/05 SAMPLE TIME (2400hr) 1342

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) = 20.05 CASING VOLUME (gal) = 1.04

DEPTH TO WATER (feet) = 13.96 CALCULATED PURGE (gal) = 3.12

WATER COLUMN HEIGHT (feet) = 6.09 ACTUAL PURGE (gal) = 3.30

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9/26/05	1324	0	21.7	701	6.40	Semi Clear	Low
	1326	1.1	21.7	722	6.34	Semi Clear	Low
	1327	2.2	21.7	762	6.35	Semi Clear	Low
	1329	3.3	21.9	674	6.42	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.12 SAMPLE TURBIDITY: Low

80% RECHARGE: X YES ____ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: None 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. 2.9

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #20244 PURGED BY: ~~Peng Vang~~ CORD DENNIG WELL I.D.: MW-3

CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: ~~Peng Vang~~ CORD DENNIG SAMPLE I.D.: MW-3

LOCATION: 3625 MacDonald Avenue, Richmond, CA QA SAMPLES: None

DATE PURGED 9/26/05 START (2400hr) 1353 END (2400hr) 1407

DATE SAMPLED 9/26/05 SAMPLE TIME (2400hr) 1422

SAMPLE TYPE: Groundwater X Surface Water ___ Treatment Effluent ___ Other ___

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

DEPTH TO BOTTOM (feet) = 20.12 CASING VOLUME (gal) = 1.02

DEPTH TO WATER (feet) = 14.16 CALCULATED PURGE (gal) = 3.06

WATER COLUMN HEIGHT (feet) = 5.96 ACTUAL PURGE (gal) = 3.30

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9/26/05	1401	0	22.6	942	6.44	Semi Clear	Med.
	1403	1.1	23.1	916	6.51	Lt. Brn	Med.
	1405	2.2	22.2	933	6.77	Lt. Brn	Med.
	1407	3.3	22.3	920	6.69	Lt. Brn	Med.

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.31 SAMPLE TURBIDITY: Medium

80% RECHARGE: X YES ___ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B

ODOR: None 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. - 13.2

SIGNATURE: [signature]

ATTACHMENT B
CERTIFIED LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Quarterly Groundwater Monitoring
Report - Third Quarter 2005
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

KIFF Analytical LLC

Report Number : 46280
Date : 10/5/2005

Debbie Herzog
SECOR International, Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 5 Water Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.05

Dear Ms. Herzog,

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.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

RECEIVED OCT 11 2005

KIFF Analytical LLC

Report Number : 46280
Date : 10/5/2005

Subject : 5 Water Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.05

Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for samples MW-1, MW-2 and MW-4.

Approved By: _____
Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 46280
Date : 10/5/2005

Project Name : **7-Eleven Store #20244**
Project Number : **77EL.20244.05**

Sample : **MW-1** Matrix : Water Lab Number : 46280-01
Sample Date :9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Methyl-t-butyl ether (MTBE)	**11**	0.50	ug/L	EPA 8260B	10/3/2005
Diisopropyl ether (DIPE)	**4.1**	0.50	ug/L	EPA 8260B	10/3/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/3/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/3/2005
TPH as Gasoline	**730**	50	ug/L	EPA 8260B	10/3/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/3/2005
4-Bromofluorobenzene (Surr)	92.8		% Recovery	EPA 8260B	10/3/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 46280
Date : 10/5/2005

Project Name : **7-Eleven Store #20244**
Project Number : **77EL.20244.05**

Sample : **MW-2** Matrix : Water Lab Number : 46280-02
Sample Date :9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Methyl-t-butyl ether (MTBE)	**6.3**	0.50	ug/L	EPA 8260B	10/4/2005
Diisopropyl ether (DIPE)	**0.72**	0.50	ug/L	EPA 8260B	10/4/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/4/2005
TPH as Gasoline	**2500**	50	ug/L	EPA 8260B	10/4/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/4/2005
4-Bromofluorobenzene (Surr)	93.8		% Recovery	EPA 8260B	10/4/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 46280

Date : 10/5/2005

Project Name : **7-Eleven Store #20244**

Project Number : **77EL.20244.05**

Sample : **MW-3** Matrix : Water Lab Number : 46280-03

Sample Date :9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**33**	15	ug/L	EPA 8260B	10/4/2005
Toluene	**< 15**	15	ug/L	EPA 8260B	10/4/2005
Ethylbenzene	**220**	15	ug/L	EPA 8260B	10/4/2005
Total Xylenes	**76**	15	ug/L	EPA 8260B	10/4/2005
Methyl-t-butyl ether (MTBE)	**5400**	15	ug/L	EPA 8260B	10/4/2005
Diisopropyl ether (DIPE)	**< 15**	15	ug/L	EPA 8260B	10/4/2005
Ethyl-t-butyl ether (ETBE)	**< 15**	15	ug/L	EPA 8260B	10/4/2005
Tert-amyl methyl ether (TAME)	**< 15**	15	ug/L	EPA 8260B	10/4/2005
Tert-Butanol	**1000**	70	ug/L	EPA 8260B	10/4/2005
TPH as Gasoline	**2000**	1500	ug/L	EPA 8260B	10/4/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/4/2005
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	10/4/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 46280
Date : 10/5/2005

Project Name : **7-Eleven Store #20244**
Project Number : **77EL.20244.05**

Sample : **MW-4** Matrix : Water Lab Number : 46280-04
Sample Date :9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Methyl-t-butyl ether (MTBE)	**4.3**	0.50	ug/L	EPA 8260B	10/4/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/4/2005
TPH as Gasoline	**100**	50	ug/L	EPA 8260B	10/4/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/4/2005
4-Bromofluorobenzene (Surr)	93.3		% Recovery	EPA 8260B	10/4/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 46280

Date : 10/5/2005

Project Name : **7-Eleven Store #20244**

Project Number : **77EL.20244.05**

Sample : **MW-5** Matrix : Water Lab Number : 46280-05

Sample Date :9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/4/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/4/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/4/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/4/2005
4-Bromofluorobenzene (Surr)	93.9		% Recovery	EPA 8260B	10/4/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 46280

Date : 10/5/2005

QC Report : Method Blank Data

Project Name : **7-Eleven Store #20244**

Project Number : **77EL.20244.05**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/3/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/3/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/3/2005
Toluene - d8 (Surr)	102		%	EPA 8260B	10/3/2005
4-Bromofluorobenzene (Surr)	93.9		%	EPA 8260B	10/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 46280

Date : 10/5/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **7-Eleven Store #20244**

Project Number : **77EL.20244.05**

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	46209-01	<0.50	40.0	40.0	41.3	38.2	ug/L	EPA 8260B	10/3/05	103	95.4	7.88	70-130	25
Toluene	46209-01	<0.50	40.0	40.0	41.1	38.0	ug/L	EPA 8260B	10/3/05	103	95.0	7.99	70-130	25
Tert-Butanol	46209-01	<5.0	200	200	209	195	ug/L	EPA 8260B	10/3/05	105	97.4	7.27	70-130	25
Methyl-t-Butyl Ether	46209-01	<0.50	40.0	40.0	39.7	37.4	ug/L	EPA 8260B	10/3/05	99.3	93.6	5.90	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 46280

Date : 10/5/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **7-Eleven Store #20244**

Project Number : **77EL.20244.05**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/3/05	93.5	70-130
Toluene	40.0	ug/L	EPA 8260B	10/3/05	98.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/3/05	91.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/3/05	88.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Chain of Custody Number: 46280

SECOR 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 #20244
Location: 3625 MacDonald Avenue
Richmond, California

Project # 77EL.20244.05 Task # 0410
Project Manager Jaff Auchterlonie
Laboratory Kiff Analytical
Turnaround Time Standard

Sampler's Name ~~Peng Wang~~ CORD DENNIG
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCl-preserved	TPHg/BTEX - EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/NTPH 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						Comments/ Instructions	Number of Containers	
MW-1	9/26/05	1304	Water	x	X							X							3	01
MW-2		1342	Water	x	X							X							3	02
MW-3		1422	Water	x	X							X							3	03
MW-4		1241	Water	x	X							X							3	04
MW-5		1201	Water	x	X							X							3	05

Temp °C 0.0 Therm. ID# IR-1
Initial MAS
Date 100305 Time 1420
Coolant present: Yes / No

Special Instructions/Comments
5 Oxygenates: TAME, MtBE, EtBE, TBA, & DIPE
Global ID #T0601300710 (SIRC)
email EDD to cryan@secor.com
email lab report to dherzog@secor.com and dbrown@secor.com

Relinquished by: CORD DENNIG
Sign
Print
Company SECOR
Time Date 9/26/05

Relinquished by:
Sign
Print
Company
Time Date

Received by
Sign
Print
Company
Time Date

Received by Michelle Spencer
Sign Michelle Spencer
Print Michelle Spencer
Company Kiff Analytical
Time 1255 Date 100305

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

Client: SECOR
Client Contact: Daniel Davis
Client Phone: (916) 861-0400 ext. 228

SECOR CUSTREC Rev. 2/99

Date: 9/26/05 Page 1 of 1

ATTACHMENT C
OXYGEN INJECTION FIELD NOTES

Quarterly Groundwater Monitoring
Report - Third Quarter 2005
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave. .	START DATE:	7/12/05
	Richmond, CA	DATE PREPARED:	7/10/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 7/12/05 Did you call in? Yes No

Arrival Time: 1300 "Departure Time: 1530 Who did you call? D.D.

Weather Notations: SUN RAIN SNOW Temperature 100° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
TRAFFIC - TRUCK AS PROTECTANT TO VEHICLES
TRIPS
O2 FLAME
DPE

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 8.18 Post Injection: 7.67

Agitated Water Readings: Pre Injection: 8.10 Post Injection: 7.55

Instrument Type QRAE+

Instrument Calibration Method and Results AIR = 20.9% O2

Instrument Type SOLINST

Instrument Calibration Method and Results WTR

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7/12/05
	Richmond, CA	DATE PREPARED:	7/10/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: TDR Date: 7/12/05

1300 ARV ONSITE TALK TO 7-11 (RANDY) + D.D. SET-UP SAFETY MEASURES. TRUCK PROTECT MKS @ WELL CHECKS AND IN TRAFFIC.

PRE CAL DO = 8.18 / 7.67 = POST CAL DO
AG WTR = 8.10 / 7.55 = AG WTR.

1330 O_2 INJ @ I-1,2,3 FOR 60 MIN. @ 35 PSI.

1530 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7/12/05
	Richmond, CA	DATE PREPARED:	7/10/05
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ft TOC	D.O. Before Injection (mg/L)	D.O. Before Injection time	D.O. After Injection (mg/L)	D.O. After Injection time	COMMENTS
MW-1	20.0	2"	12.8	1.1		4.1		
MW-2	20.0	2"	12.8	0.9		5.0		
MW-3	20.0	2"	12.7	1.7		25.3		
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

3 MCS

8.18/7.67
8.10/7.55

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7/12/05
	Richmond, CA	DATE PREPARED:	7/10/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

Oxygen Injection Monitoring Summary

Injection Well	Timer Start	Timer Finished	Timer Elapsed	O2 Injection Pressure (PSI)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose (% LEL)	O2 Reading Vadose Time	NOTES
I-1, I-2, I-3										
--	--	--	--		--	--	~~MW-1~~			Pre-injection Readings
--	--	--	--		--	--	~~MW-2~~			Pre-injection Readings
							~~MW-3~~			Pre-injection Readings
I-1, I-2, I-3	1330	1430	60	35	150 EA	25	MW-1	19.9	1315	PRE-INJ
							MW-1	18.9	1350	
							MW-1	18.2	1410	
							MW-2	20.9	1325	PRE-INJ
							MW-2	19.0	1340	
							MW-2	17.8	1420	
							MW-3	20.4	1305	PRE-INJ
							MW-3	14.0	1400	
							MW-3	11.3	1430	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7-27-05
	Richmond, CA	DATE PREPARED:	7/23/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Andrew Tobin Date: 7-27-05 Did you call in? (Yes) No

Arrival Time: 10 Am "Departure Time: 14:00 Who did you call? Daniel Davis

Weather Notations: SUN RAIN SNOW Temperature 57 F

Cloudy

DRUM INVENTORY

	WATER		CARBON	TOTAL OPEN TOP	
	SOIL		EMPTY	TOTAL BUNG TOP	

HEALTH AND SAFETY ASSESSMENT

People Traffic
Vehicle Traffic
Pan Handlers / Drug Dealers.

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550 A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 8.05 Post Injection: 8.08

Agitated Water Readings: Pre Injection: 6.05 Post Injection: 6.07

Instrument Type Solinst WLM

Instrument Calibration Method and Results water

Instrument Type QRae LEL/OX meter

Instrument Calibration Method and Results 20.9%/0%

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7/22/05
	Richmond, CA	DATE PREPARED:	7/23/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Date:

8:00 Leave San Jose Head to Site / Got Lost trying to find site
Call office for Help. None Available.
10:00 Arrive At Site. Locate And open And Gauge/DO Read wells.
11:00 Decon Equipment

11:30 Begin Injection at wells 1-1, 1-2, 1-3

12:30 Break Down wells Decon Equipment again. Decon Tubing for next site.
Call Office And have tubing ordered for Martinez site.
Prepare the Available tubing for the next Site.
14:00 Leave site for next Site.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	
	Richmond, CA	DATE PREPARED:	7/23/05
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ft TOC	D.O. Before Injection (mg/L)	D.O. Before Injection time	D.O. After Injection (mg/L)	D.O. After Injection time	COMMENTS
MW-1	20.0	2"	13.24	1.11	10:05	42.03	12:10	
MW-2	20.0	2"	13.09	0.50	10:30	0.9	12:17	
MW-3	20.0	2"	13.31	1.10	10:45	44.01	12:28	
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	7/27/05
	Richmond, CA	DATE PREPARED:	7/23/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Tom Miller

Oxygen Injection Monitoring Summary

Injection Well	Time			O2 Injection Pressure (PSI)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose		NOTES
	Start	Finished	Elapsed					(% LEL)	Time	
I-1, I-2, I-3										
--	--	--	--		--	--	MW-1	20.9	10:15	Pre-injection Readings
--	--	--	--		--	--	MW-2	20.5	10:30	Pre-injection Readings
							Mw-3	20.9	10:45	Pre-injection Readings
I-1, I-2, I-3	1130	1200	30:00	40PSI	150	5	MW-1	16.6	11:35	
							MW-1	16.1	11:45	
							MW-1	17.0	11:55	
							MW-2	20.3	11:40	
							MW-2	19.4	11:50	
							MW-2	19.7	12:00	
							~~MW-3~~			
							~~MW-3~~			
							~~MW-3~~			

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-9-05
	Richmond, CA	DATE PREPARED:	8/8/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

SITE VISITATION REPORT

Name(s) Andrew Tobin Date: 8-9-05 Did you call in? (Yes) No

Arrival Time: 1300 "Departure Time: 1600 Who did you call? Daniel Davis

Weather Notations: (SUN) RAIN SNOW Temperature 80 F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Traffic
Panhandlers
Heat
Black widow Spiders
HasP
PPE

INSTRUMENT CALIBRATION NOTES

Instrument Type 510 A Dometer

Instrument Calibration Method and Results

Calibration Readings **Pre Injection:** 8.08 **Post Injection:** 8.05

Agitated Water Readings: **Pre Injection:** 6.04 **Post Injection:** 6.02

Instrument Type Solinst water level meter

Instrument Calibration Method and Results water beep

Instrument Type QRAE LEL/O2 meter

Instrument Calibration Method and Results 20.9% O2

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8/9/05
	Richmond, CA	DATE PREPARED:	8/8/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Andrew Tobin Date: 8/9/05

Depart Wipple Site At 1200 Arrive at Richmond Site @ 1300
1300 - 1330 - Locate wells, Setup Saftey zones, wait for 7up truck to
move off wells MW2 & MW3, Decon Equipment.
1330 - 1415 measure wells, Pre DO's & O^2 Readings.
1415 - 1445 - Setup for Injection, notify employees of Last Chance to Smoke.
1445 - 1515 - Inject I1, I2, I3
1515 - 1530 - Post DO's
1530 - 1400 - Button up wells Break Down setup & Saftey Zone, Begin Drive to
Martinez

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-9-05
	Richmond, CA	DATE PREPARED:	8/8/05
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ft TOC	D.O. Before Injection (mg/L)	D.O. Before Injection time	D.O. After Injection (mg/L)	D.O. After Injection time	COMMENTS
MW-1	20.0	2"	13.47	.9	13.45	.22	1530	
MW-2	20.0	2"	13.32	.6	14.00	.35	1535	
MW-3	20.0	2"	13.57	18.9	14.15	42.9	1540	
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8/9/05
	Richmond, CA	DATE PREPARED:	8/8/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

Oxygen Injection Monitoring Summary

Injection Well	Time			O2 Injection Pressure (PSI)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose		NOTES
	Start	Finished	Elapsed					(% LEL)	Time	
I-1, I-2, I-3										
--	--	--	--		--	--	MW-1	20.9	13.45	Pre-injection Readings
--	--	--	--		--	--	MW-2	20.4	14.00	Pre-injection Readings
							Mw-3	20.9	14.15	Pre-injection Readings
I-1, I-2, I-3	1445	1515	30min	40PSI	150	5	MW-1	4.8	1455	
							MW-1	1.2	1505	
							MW-1	1.8	1515	
							MW-2	20.2	1457	
							MW-2	20.0	1507	
							MW-2	20.5	1517	
							MW-3	28.7	1459	
							MW-3	30.00	1509	
							MW-3	30.00	1519	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-23-05
	Richmond, CA	DATE PREPARED:	8/22/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

SITE VISITATION REPORT

Name(s) Andrew Tobin Date: 8-23-05 Did you call in? (Yes) No

Arrival Time: 1230 "Departure Time: 1500 Who did you call? Daniel Davis

Weather Notations: (SUN) RAIN SNOW Temperature 80 F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Traffic

HasP

PPE

NoSmoking

INSTRUMENT CALIBRATION NOTES

Instrument Type VSE550A Dometer

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 8.08 Post Injection: 8.06

Agitated Water Readings: Pre Injection: 6.04 Post Injection: 6.07

Instrument Type Waterlevel meter solinst

Instrument Calibration Method and Results Water Beep

Instrument Type Q-RAE LEL/O^2 meter

Instrument Calibration Method and Results 20.9% O^2

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-23-05
	Richmond, CA	DATE PREPARED:	8/22/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Andrew Tobin Date: 8-23-05

1130-1230	Depart first site travel to this site.
1230-	Arrive at site and call in.
1230 - 1300	Locate wells, Setup Safety Zone, Dean Equip.
1300 - 1345	Measure wells, Pre DO & O^2 Levels.
1345 - 1400	Set up for Injecting of I1, I2, I3
1400 - 1430	Inject wells, I1, I2, I3
1430 - 1445	Post DO's & Bump up wells.
1445 - 1500	Break Down Setup & Safety Zone. Leave site.
1500 -	Leave site
1500 - 1600	Travel to Martines Hotel.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-23-05
	Richmond, CA	DATE PREPARED:	8/22/05
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ft TOC	D.O. Before Injection (mg/L)	D.O. Before Injection time	D.O. After Injection (mg/L)	D.O. After Injection time	COMMENTS
MW-1	20.0	2"	13.56	1.1	1315	1.3	1425	
MW-2	20.0	2"	13.93	.9	1330	1	1440	
MW-3	20.0	2"	13.61	19.3	1345	43.1	1445	
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	8-23-05
	Richmond, CA	DATE PREPARED:	8/22/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Daniel Davis

Oxygen Injection Monitoring Summary

Injection Well	Time			O2 Injection Pressure (PSI)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose		NOTES
	Start	Finished	Elapsed					(% LEL)	Time	
I-1, I-2, I-3										
–	–	–	–		–	–	MW-1	20.9	1315	Pre-injection Readings
–	–	–	–		–	–	MW-2	20.9	1330	Pre-injection Readings
							Mw-3	20.9	1345	Pre-injection Readings
I-1, I-2, I-3							MW-1	5.7	1402	
							MW-1	2.2	1412	
							MW-1	1.7	1420	
							MW-2	20.9	1404	
							MW-2	20.1	1416	
							MW-2	20.4	1424	
							MW-3	29.1	1406	
							MW-3	30	1418	
							MW-3	30	1430	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-7-05
	Richmond, CA	DATE PREPARED:	9/2/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Sid Sewalia

SITE VISITATION REPORT

Name(s) Andrew Tobin Date: 9-7-05 Did you call in? Yes No

Arrival Time: 900 "Departure Time: 1045 Who did you call? Daniel Davis

Weather Notations: SUN RAIN Cloudy SNOW Temperature 65 F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Hasp

Traffic

NOSmoking

Panhandelers

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550 A Dometer

Instrument Calibration Method and Results

Calibration Readings **Pre Injection:** 8.08 **Post Injection:** 8.07

Agitated Water Readings: **Pre Injection:** 6.05 **Post Injection:** 6.08

Instrument Type Solinst WLM

Instrument Calibration Method and Results water beet

Instrument Type QRIE LeL/O_2 meter

Instrument Calibration Method and Results 20.9% O_2

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-7-05
	Richmond, CA	DATE PREPARED:	9/2/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Sid Sewalia

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Date:

8-900 — Travel to site - 40 miles

900 ← Call in

900-930 Locate wells, setup safety zone measure wells, DO And O^2

930-945 Setup Injection

945-1015 Inject I1, I2, I3

1015-1030 Post DO's & Butter up wells -

1030-1045 Break Down setup & safety zone

1045 Leave Site for Second Site -

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-7-05
	Richmond, CA	DATE PREPARED:	9/2/05
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Sid Sewalia

WORK REQUEST FORM

WELL ID	DTB (bgs)	WELL DIAM. (in)	DTW (bgs)	DO Before Injection (mg/L)		DO After Injection (mg/L)		COMMENTS
MW-1	20.0	2"	13.95	.7	910	1.3	1015	
MW-2	20.0	2"	13.77	.8	920	.8	1020	
MW-3	20.0	2"	13.99	20.2	930	41.7	1025	
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-7-05
	Richmond, CA	DATE PREPARED:	9/2/2005
PREPARED FOR:	Andrew Tobin	PREPARED BY:	Sid Sewalia

Oxygen Injection Monitoring Summary

Injection Well	Time			O2 Injection Pressure (PSI)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose		NOTES
	Start	Finished	Elapsed					(% LEL)	Time	
I-1, I-2, I-3										
–	–	–	–		–	–	MW-1	20.9	910	Pre-injection Readings
–	–	–	–		–	–	MW-2	20.4	920	Pre-injection Readings
							Mw-3	20.4	930	Pre-injection Readings
I-1, I-2, I-3	945	1015	30min	40PSI	150	5	MW-1	5.1	945	
							MW-1	3.1	955	
							MW-1	1.6	1015	
							MW-2	20.9	946	
							MW-2	20.9	956	
							MW-2	20.9	1014	
							MW-3	27.4	947	
							MW-3	30	957	
							MW-3	30	1013	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-21-05
	Richmond, CA	DATE PREPARED:	9/15/2005
PREPARED FOR:		PREPARED BY:	Sid Sewalia

SITE VISITATION REPORT

Name(s) Peng Vang Date: 9-21-05 Did you call in? (Yes) No

Arrival Time: 1200 Departure Time: Who did you call? Daniel Davis

Weather Notations: (SUN) RAIN SNOW Temperature F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Traffic
Safty glasses
Steel toe.

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550 DO meter

Instrument Calibration Method and Results

Calibration Readings **Pre Injection:** 9.3 **Post Injection:** 9.7

Agitated Water Readings: **Pre Injection:** 7.8 **Post Injection:** 7.7

Instrument Type Solinst water level

Instrument Calibration Method and Results

Instrument Type Q Kay LEL meter

Instrument Calibration Method and Results

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	
	Richmond, CA	DATE PREPARED:	9/15/2005
PREPARED FOR:		PREPARED BY:	Sid Sewalia

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: Date:

9-21-05

11-1200 drive to site.
12-1215 call in setup, setup injection
1215-1245 measure well Pre DO
LEL or level DTW
1245-1315 Inject 1+2+3
1315-1330 post DO.
1330-1345 Break down safty zone
1345-1545 Drive home to drop off Drew.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	
	Richmond, CA	DATE PREPARED:	9/15/05
PREPARED FOR:		PREPARED BY:	Sid Sewalia

WORK REQUEST FORM

WELL I.D.	DTB	WELL DIAM	DTW	D.O. Before Injection		D.O. After Injection		COMMENTS
	ft/hgs		ft TOC	(mg/L)	time	(mg/L)	time	
MW-1	20.0	2"	14.1	1.1	1220	1.1	1320	
MW-2	20.0	2"	13.9	.8	1225	1.1	1325	
MW-3	20.0	2"	14.1	19.5	1220	39.5	1330	
MW-4	24.5	2"						No DO measurement
MW-5	24.0	2"						No DO measurement
I-1	27.0	3/4"						Sealed well
I-2	27.0	3/4"						Sealed well
I-3	27.0	3/4"						Sealed well

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	9-21-05
	Richmond, CA	DATE PREPARED:	9/15/2005
PREPARED FOR:		PREPARED BY:	Sid Sewalia

Oxygen Injection Monitoring Summary

Injection Well	Time			O2 Injection Pressure (psi)	O2 Injection Volume (cubic Feet)	O2 Injection Rate (cfm)	Adjacent Monitoring Point	O2 Reading Vadose		NOTES
	Start	Finished	Elapsed					(% LEL)	Time	
I-1, I-2, I-3										
–	–	–	–		–	–	MW-1	20.9	1250	Pre-injection Readings
–	–	–	–		–	–	MW-2	20.9	1253	Pre-injection Readings
							Mw-3	20.9	1256	Pre-injection Readings
I-1, I-2, I-3	1245	1315	30	30	150	5	MW-1	20.9	1250	
							MW-1	~~20.9~~ 17.6	1300	
							MW-1	17.0	1310	
							MW-2	20.9	1253	
							MW-2	20.9	1303	
							MW-2	12.6	1313	
							MW-3	20.9	1256	
							MW-3	30.0	1306	
							MW-3	30.0	1316	