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Quarterly Groundwater Monitoring Report
Second Quarter 2005

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

SECOR Project No.: 77EL.20244.05

Submitted by:
SECOR International Incorporated
3017 Kilgore Road, Suite 100
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916-861-0400

Prepared on behalf of:
7-Eleven, Inc.
Mr. Ken Hilliard
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August 4, 2005

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Senior Geologist

REGISTERED GEOLOGIST
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STATE OF CALIFORNIA

DATE: August 4, 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 [Second – 2005]

1. Conducted groundwater monitoring and sampling of five wells on June 6, 2005.
2. Conducted periodic oxygen injection into onsite wells.
3. Prepared quarterly monitoring and sampling report.

WORK PROPOSED FOR NEXT QUARTER [Third – 2005]

1. Conduct quarterly groundwater monitoring and sampling.
2. Continue periodic oxygen injection into the onsite wells.
3. Prepare quarterly monitoring and sampling report.
4. Submit modified corrective action plan 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:	Oxygen Injection Feasibility Testing
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-99 to Q2-05	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)	11.98 to 13.92 ft bgs

Average Change in Groundwater Elevation Since Last Event:	1.58 foot decrease
Groundwater Flow Direction and Gradient:	Southeast @ 0.02 foot per foot (Figure 2)
Current Quarter Analytical Data	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	MW-3, 6,100 µg/L
Maximum Benzene Concentrations	MW-3, 220 µg/L
Maximum MtBE Concentrations	MW-3, 9,100 µg/L
Maximum TBA Concentrations	MW-3, 990 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 ug/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. Hydrocarbon concentrations were generally consistent with historical data.

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 April 5, April 19, May 3, May 17, June 1, June 14, and June 29, 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 second quarter 2005, the highest DO increase was observed in well MW-3 which showed an increase from 13.9 milligrams per liter (mg/L) to 33.3 mg/L on June 29, 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 third 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 third quarter 2005.

PURGE AND RINSATE WATER DISPOSAL

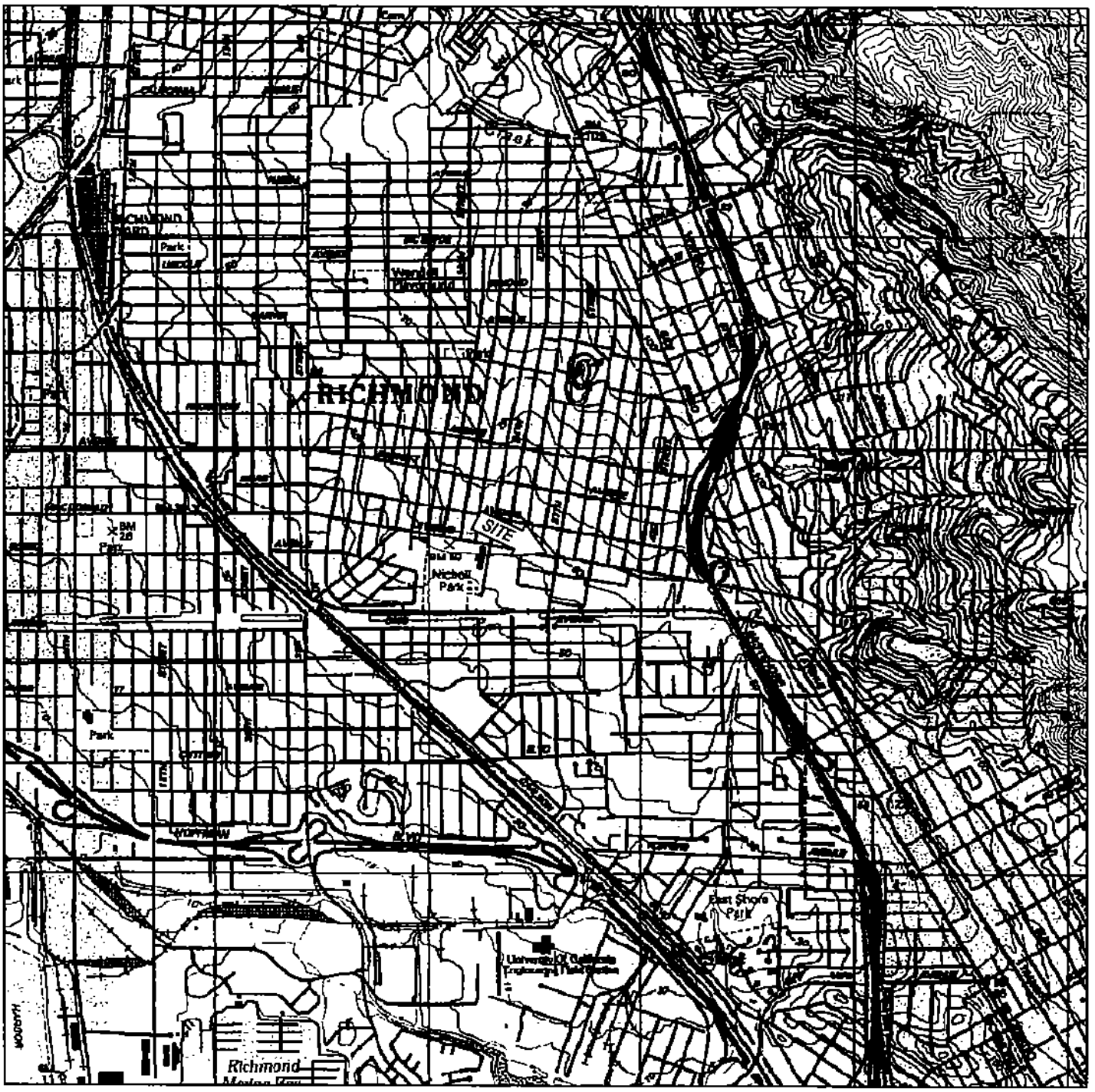
Water generated during well sampling and equipment cleaning was pumped into a SECOR truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental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

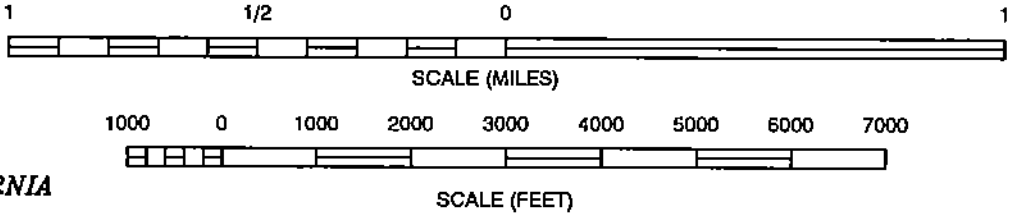
ATTACHMENTS

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

FIGURES





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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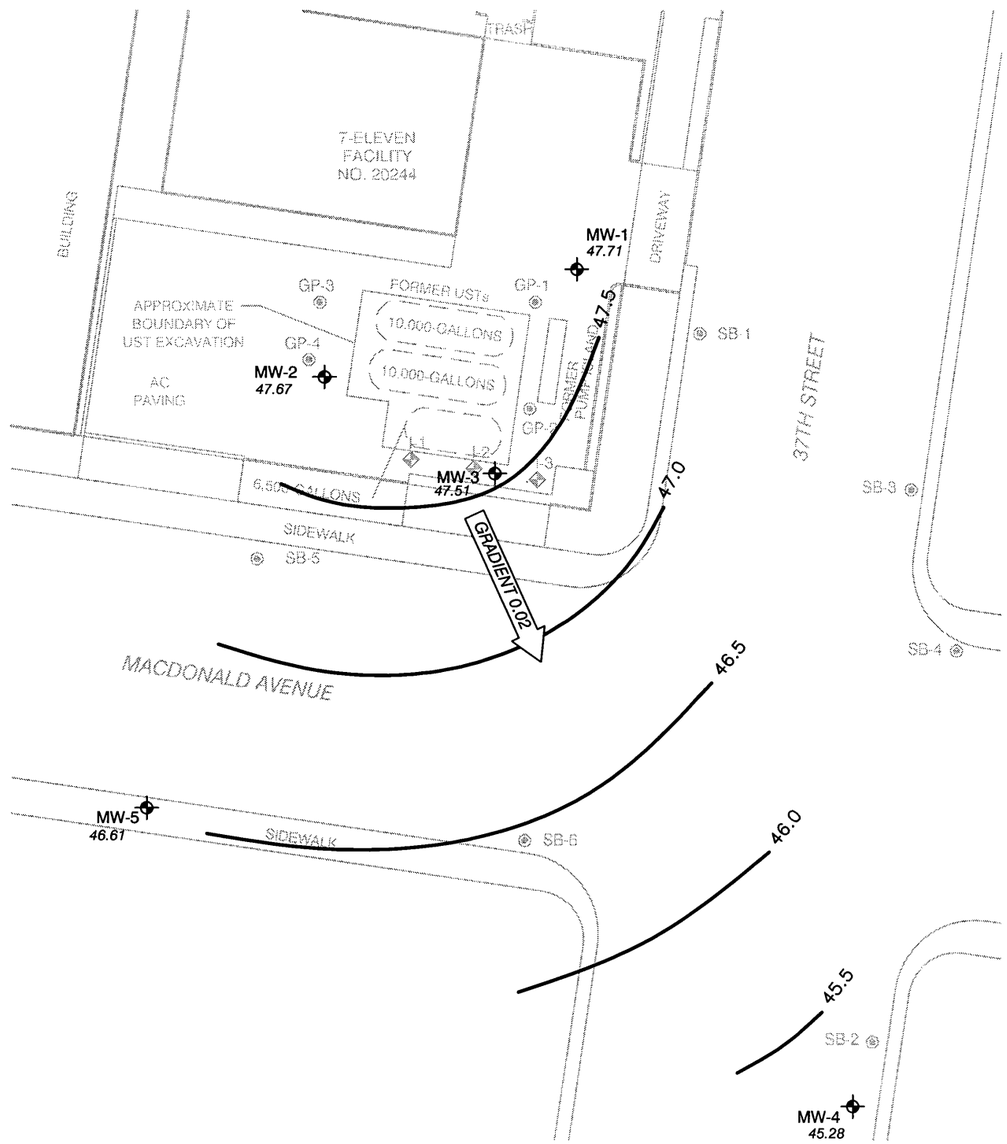

LEGEND:

- 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.

SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/861-0430 (FAX)	FOR: 7-ELEVEN, INC. FACILITY # 20244 3625 MacDONALD AVENUE RICHMOND, CALIFORNIA		**GROUNDWATER ELEVATION CONTOUR MAP** **JUNE 6, 2005**		FIGURE: **2**
	JOB NUMBER: 77EL.20244.05	DRAWN BY: MDR	CHECKED BY: CR	APPROVED BY: DB	DATE: 4/07/05

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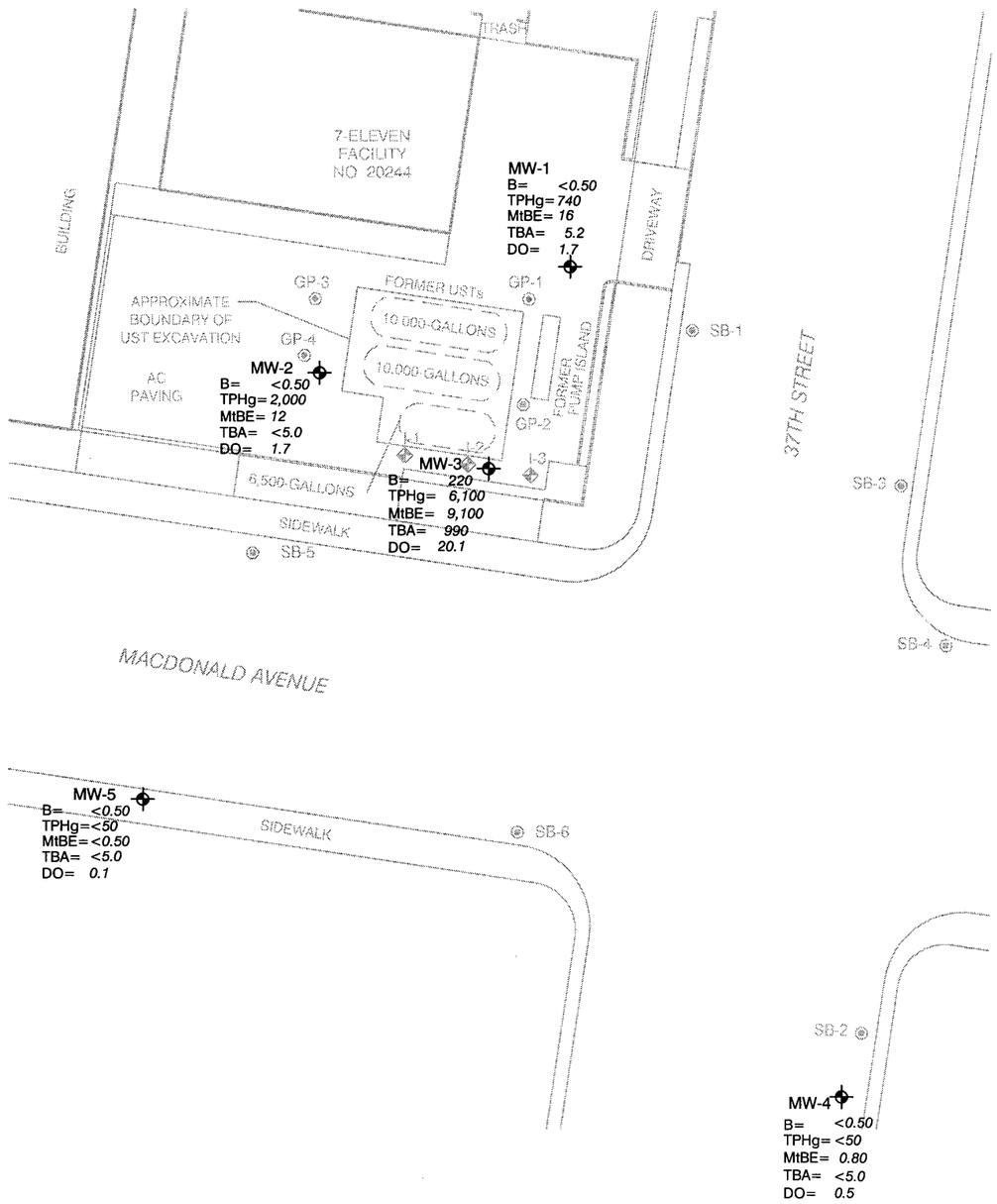

LEGEND:

⊕	MONITORING WELL
◎	SOIL BORING
◇	OXYGEN INJECTION WELL
B	BENZENE (µg/L)
TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (µg/L)
MtBE	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 50 100

APPROXIMATE SCALE 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.

SECOR
3017 KILGORE ROAD, SUITE 100
RANCHO CORDOVA, CALIFORNIA
PHONE: (916) 861-0400/861-0430 (FAX)

FOR: 7-ELEVEN, INC.
FACILITY # 20244

3625 MacDONALD AVENUE
RICHMOND, CALIFORNIA

GROUNDWATER HYDROCARBON CONCENTRATION MAP
JUNE 6, 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
Second 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	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
MW-2 59.65	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
MW-3 59.59	06/06/05	**220**	<15	**800**	**380**	**6,100**	**9,100**	**990**	<15	<15	<15		20.1	12.08	0.00	47.51
MW-4 59.20	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
MW-5 58.94	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

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 and MW-2

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	--	--		--	--	--	--
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

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

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

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
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

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
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
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
			520.7	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
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
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

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-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
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

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 - Second 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:	
	Richmond, CA	DATE PREPARED:	06/06/05
PREPARED FOR:	Peng Vang	PREPARED BY:	Daniel Davis

SITE VISITATION REPORT

Name(s) Peng Vang Date: 6-6-05 Did you call in? (Yes) No

Arrival Time: 1100 "Departure Time: Who did you call? Daniel Davis

Weather Notations: (SUN) CLOUDY RAIN SNOW Temperature F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Traffic - moderate to heavy. Setup deliniator & tape for visability & safty. Safty glasses & reflective vest Watched for foot traffic.

CALIBRATION

Ec Calibration Reading 1413

pH Two PL Calibration: Reading1 7.01 Reading 2 4.01

DO Calibration

Pre-Calibration reading 9.0 Calibration Reading 8.5 Post Calibration Reading 8.5

Post M&S Agitated Water reading 8.4

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

Arrived on site - check in with store manager. Decon equipment & calibrate. Locate drums. Locate & open all wells Gauge wells & monitor DTW-DTB. Setup @ well & purge well record ph, ec, temp. grab samples & transfer water to Drum on site.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	6-6-05
	Richmond, CA	DATE PREPARED:	06/06/05
PREPARED FOR:	Peng Vang	PREPARED BY:	Daniel Davis

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-4	25	2"	59.20	13.92	24.14		.5			
MW-5	25	2"	58.94	12.35	24.30		.1			
MW-1	20	2"	59.86	12.15	19.75		1.7			
MW-2	20	2"	59.65	11.98	20.0		1.7			
MW-3	20	2"	59.59	12.08	20.06		20.1			
	Estimated Purge Water Volume					27	gallons	0.56	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 WELL I.D.: MW-4

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

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

DATE PURGED 6-6-05 START (2400hr) 1200 END (2400hr) 1217

DATE SAMPLED 6-6-05 SAMPLE TIME (2400hr) 1230

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

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

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

DEPTH TO BOTTOM (feet) = 24.14 CASING VOLUME (gal) = 1.8

DEPTH TO WATER (feet) = 13.92 CALCULATED PURGE (gal) = 5.4

WATER COLUMN HEIGHT (feet) = 10.22 ACTUAL PURGE (gal) = 6.1

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-6-05	1210	Ø	22.1	219	6.03	Semi Clear	Low
	1212	2.0	21.4	216	5.90	Lt. Brn	Low
	1215	4.0	21.0	197	5.89	Lt. Brn	Low
	1217	6.0	20.7	193	5.81	Lt. Brn	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.01 SAMPLE TURBIDITY: Low

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

ODOR: Ø 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: DO -

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

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

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

DATE PURGED 6-6-05 START (2400hr) 1242 END (2400hr) 1258

DATE SAMPLED 6-6-05 SAMPLE TIME (2400hr) 1311

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

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

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

DEPTH TO BOTTOM (feet) = 24.30 CASING VOLUME (gal) = 2.1

DEPTH TO WATER (feet) = 12.33 CALCULATED PURGE (gal) = 6.3

WATER COLUMN HEIGHT (feet) = 11.97 ACTUAL PURGE (gal) = 6.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-6-05	1251	Ø	21.2	220	6.20	Lt. Brn	Low
	1253	2.1	20.6	215	6.41	Semi Clear	Low
	1256	4.2	20.5	213	6.50	Semi Clear	Low
	1258	6.3	20.5	212	6.63	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.41 SAMPLE TURBIDITY: Low

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

ODOR: Ø 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: DO –

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

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

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

DATE PURGED 6-6-05 START (2400hr) 1325 END (2400hr) 1342

DATE SAMPLED 6-6-05 SAMPLE TIME (2400hr) 1355

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

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

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

DEPTH TO BOTTOM (feet) = 19.75 CASING VOLUME (gal) = 1.3

DEPTH TO WATER (feet) = 12.15 CALCULATED PURGE (gal) = ___

WATER COLUMN HEIGHT (feet) = 7.60 ACTUAL PURGE (gal) = ___

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-6-05	1335	Ø	20.0	227	6.49	Clear	None
↓	1337	1.5	19.4	229	6.63	Clear	None
↓	1340	3.0	19.0	235	6.72	Semi Clear	Low
	1342	4.5	19.2	235	6.60	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.21 SAMPLE TURBIDITY: Low

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

ODOR: Ø 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: DO

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

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

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

DATE PURGED 6-6-05 START (2400hr) 1403 END (2400hr) 1419

DATE SAMPLED 6-6-05 SAMPLE TIME (2400hr) 1432

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) = 20.00 CASING VOLUME (gal) = 1.4

DEPTH TO WATER (feet) = 11.98 CALCULATED PURGE (gal) = 4.2

WATER COLUMN HEIGHT (feet) = 8.02 ACTUAL PURGE (gal) = 4.6

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-6-05	1411	Ø	20.5	280	6.57	Semi Clear	Low
	1414	1.5	20.1	283	6.58	Lt. Brn	Low
	1416	3.0	19.7	280	6.61	Semi Clear	Low
	1419	4.5	19.7	267	6.63	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.01 SAMPLE TURBIDITY: Low

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

ODOR: Ø 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: DO –

SIGNATURE: [signature]

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

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

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

DATE PURGED 6-6-05 START (2400hr) 1445 END (2400hr) 1504

DATE SAMPLED 6-6-05 SAMPLE TIME (2400hr) 1519

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

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

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

DEPTH TO BOTTOM (feet) = 20.06 CASING VOLUME (gal) = 1.40

DEPTH TO WATER (feet) = 12.08 CALCULATED PURGE (gal) = ___

WATER COLUMN HEIGHT (feet) = 7.98 ACTUAL PURGE (gal) = ___

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
6-6-05	1455	0	20.0	319	6.70	Lt. Brn	Low
↓	1458	1.5	20.2	320	6.66	Lt. Brn	Low
	1501	3.0	20.4	318	6.71	Lt. Brn	Low
↓	1504	4.5	20.8	314	6.67	Lt. Brn	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.14 SAMPLE TURBIDITY: Low

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

ODOR: Slight HC. 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: DO- 20.1

SIGNATURE: [signature]

Chain of Custody Number:

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 Vang
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	HCl-preserved	TPHg/BTEX - EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates EPA 8260B						Comments/ Instructions	Number of Containers
MW-1	6-6-05	1355	Water	x	X							X							3
MW-2	↓	1432	Water	x	X							X							3
MW-3		1519	Water	x	X							X							3
MW-4		1230	Water	x	X							X							3
MW-5		1311	Water	x	X							X							3

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: Peng Vang
Sign
Print Peng Vang
Company SECOR
Time Date 6-6-05

Received by:
Sign
Print
Company
Time Date

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time 17:45 Date 06/07/05

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

Client: SECOR
Client Contact: Tom Miller
Client Phone: (916) 861-0400 ext. 279

SECOR CUSTREC Rev. 2/99

Date: 6-6-05 Page 1/1

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

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

KIFF ANALYTICAL LLC

Report Number : 44201
Date : 6/14/2005

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

RECEIVED JUN 14 2005

KIFF ANALYTICAL LLC

Report Number : 44201
Date : 6/14/2005

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 and MW-2.

Approved By: Joe Kiff

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

KIFF ANALYTICAL LLC

Report Number : 44201

Date : 6/14/2005

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

Project Number : **77EL.20244.05**

Sample : **MW-1** Matrix : Water Lab Number : 44201-01

Sample Date :6/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Methyl-t-butyl ether (MTBE)	**16**	0.50	ug/L	EPA 8260B	6/9/2005
Diisopropyl ether (DIPE)	**14**	0.50	ug/L	EPA 8260B	6/9/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	6/9/2005
Tert-Butanol	**5.2**	5.0	ug/L	EPA 8260B	6/9/2005
TPH as Gasoline	**740**	50	ug/L	EPA 8260B	6/9/2005
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	6/9/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/9/2005

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 44201

Date : 6/14/2005

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

Project Number : **77EL.20244.05**

Sample : **MW-2** Matrix : Water Lab Number : 44201-02

Sample Date :6/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Methyl-t-butyl ether (MTBE)	**12**	0.50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	**0.94**	0.50	ug/L	EPA 8260B	6/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	**2000**	50	ug/L	EPA 8260B	6/11/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/11/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	6/11/2005

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 44201

Date : 6/14/2005

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

Project Number : **77EL.20244.05**

Sample : **MW-3** Matrix : Water Lab Number : 44201-03

Sample Date :6/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**220**	15	ug/L	EPA 8260B	6/13/2005
Toluene	**< 15**	15	ug/L	EPA 8260B	6/13/2005
Ethylbenzene	**800**	15	ug/L	EPA 8260B	6/13/2005
Total Xylenes	**380**	15	ug/L	EPA 8260B	6/13/2005
Methyl-t-butyl ether (MTBE)	**9100**	50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	**< 15**	15	ug/L	EPA 8260B	6/13/2005
Ethyl-t-butyl ether (ETBE)	**< 15**	15	ug/L	EPA 8260B	6/13/2005
Tert-amyl methyl ether (TAME)	**< 15**	15	ug/L	EPA 8260B	6/13/2005
Tert-Butanol	**990**	250	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	**6100**	1500	ug/L	EPA 8260B	6/13/2005
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	6/13/2005
4-Bromofluorobenzene (Surr)	92.1		% Recovery	EPA 8260B	6/13/2005

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 44201

Date : 6/14/2005

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

Project Number : **77EL.20244.05**

Sample : **MW-4** Matrix : Water Lab Number : 44201-04

Sample Date :6/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Methyl-t-butyl ether (MTBE)	**0.80**	0.50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/11/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/11/2005
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	6/11/2005

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 44201

Date : 6/14/2005

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

Project Number : **77EL.20244.05**

Sample : **MW-5** Matrix : Water Lab Number : 44201-05

Sample Date :6/6/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	6/11/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/11/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/11/2005
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	6/11/2005

Approved By: Joel Kiff

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

Report Number : 44201

Date : 6/14/2005

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	6/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/11/2005
Toluene - d8 (Surr)	106		%	EPA 8260B	6/11/2005
4-Bromofluorobenzene (Surr)	91.0		%	EPA 8260B	6/11/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2005
Toluene - d8 (Surr)	99.1		%	EPA 8260B	6/9/2005
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	6/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/11/2005
Toluene - d8 (Surr)	99.4		%	EPA 8260B	6/11/2005
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	6/11/2005

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 44201

Date : 6/14/2005

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	44170-09	1.4	39.5	39.6	42.4	42.1	ug/L	EPA 8260B	6/11/05	104	103	0.898	70-130	25
Toluene	44170-09	9.6	39.5	39.6	51.9	52.0	ug/L	EPA 8260B	6/11/05	107	107	0.0171	70-130	25
Tert-Butanol	44170-09	<5.0	198	198	207	203	ug/L	EPA 8260B	6/11/05	105	103	2.06	70-130	25
Methyl-t-Butyl Ether	44170-09	<0.50	39.5	39.6	35.4	35.3	ug/L	EPA 8260B	6/11/05	89.4	89.1	0.370	70-130	25
Benzene	44201-01	<0.50	40.0	40.0	42.0	41.5	ug/L	EPA 8260B	6/9/05	105	104	1.05	70-130	25
Toluene	44201-01	<0.50	40.0	40.0	40.9	40.4	ug/L	EPA 8260B	6/9/05	102	101	1.14	70-130	25
Tert-Butanol	44201-01	5.2	200	200	206	204	ug/L	EPA 8260B	6/9/05	101	99.7	0.986	70-130	25
Methyl-t-Butyl Ether	44201-01	16	40.0	40.0	55.3	56.1	ug/L	EPA 8260B	6/9/05	98.5	100	1.90	70-130	25
Benzene	44245-01	30	40.0	40.0	70.4	69.0	ug/L	EPA 8260B	6/11/05	100	96.9	3.56	70-130	25
Toluene	44245-01	2.0	40.0	40.0	42.9	42.3	ug/L	EPA 8260B	6/11/05	102	101	1.65	70-130	25
Tert-Butanol	44245-01	<5.0	200	200	209	208	ug/L	EPA 8260B	6/11/05	104	104	0.493	70-130	25
Methyl-t-Butyl Ether	44245-01	0.52	40.0	40.0	38.7	38.2	ug/L	EPA 8260B	6/11/05	95.3	94.1	1.32	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 44201

Date : 6/14/2005

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	6/11/05	104	70-130
Toluene	40.0	ug/L	EPA 8260B	6/11/05	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/11/05	99.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/11/05	89.4	70-130
Benzene	40.0	ug/L	EPA 8260B	6/9/05	102	70-130
Toluene	40.0	ug/L	EPA 8260B	6/9/05	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/9/05	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/9/05	96.2	70-130
Benzene	40.0	ug/L	EPA 8260B	6/11/05	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	6/11/05	97.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/11/05	95.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/11/05	85.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Chain of Custody Number: 44201

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 Vang
Sampler's Signature [signature]

Analysis Request

Sample Receipt: Temp °C 5 Therm. ID# 102.4 Initial MW Date 060705 Time 1742 Coolant present (Y/N)

Sample ID	Date	Time	Matrix	HCl-preserved	TPHg/BTEX - EPA 8260	TPHd (Diesel Only) 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates EPA 8260B						Comments/ Instructions	Number of Containers	
MW-1	6-6-05	1355	Water	x	X							X							3	01
MW-2	↓	1432	Water	x	X							X							3	02
MW-3	↓	1519	Water	x	X							X							3	03
MW-4	↓	1230	Water	x	X							X							3	04
MW-5	↓	1311	Water	x	X							X							3	05

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: Peng Vang
Sign [signature]
Print Peng Vang
Company SECOR
Time Date 6-6-05

Received by:
Sign
Print
Company
Time Date

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign [signature]
Print Meghan Wilkinson
Company Kiff Analytical
Time 1745 Date 060705

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

Client: SECOR
Client Contact: Tom Miller
Client Phone: (916) 861-0400 ext. 279

SECOR CUSTREC Rev. 2/99

Date: 6-6-05 Page 1/1

ATTACHMENT C
OXYGEN INJECTION FIELD NOTES

Quarterly Groundwater Monitoring
Report - Second 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:	4/5/05
	Richmond, CA	DATE PREPARED:	4/1/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 4/5/05 Did you call in? Yes No

Arrival Time: 0900 "Departure Time: 1300 Who did you call? DD

Weather Notations: SUN RAIN SNOW Temperature 60° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
PPE
O_2 FLAME
TRIPS
TRAFFIC

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 9.64 Post Injection: 8.91

Agitated Water Readings: Pre Injection: 9.77 Post Injection: 9.04

Instrument Type QRAE+

Instrument Calibration Method and Results AIR = 20.9% O_2

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:	4/5/05
	Richmond, CA	DATE PREPARED:	4/1/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 4/5/05

0900 ARV ONSITE TALK TO AYESHA (7-11) AND D.D SAFETY.
HASP - FOR EMERG. PROC
O_2 FLAME - NO SMOKING SIGNS, MONITOR O_2 LEL
TRAFFIC - TAPE/CONE OFF TRUCK + WELLS.
PPE - VEST, KN-PDS, GLV'S, GLSSS
TRIPS - BE AWARE

PRE CAL DO = 9.64 / 8.91 = POST CAL DO
AG WTR = 9.77 / 9.04 = AG WTR

TAKE WELL RDGS

1100 O_2 INJ @ I-1,2,3 FOR 60 MIN @ 35 PSI.

1230 POST DO'S TAKEN @ MW-1,2,3 ONSITE

1300 DPT SITE

NO WELL BOX NEED RPR

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	4/5/05
	Richmond, CA	DATE PREPARED:	4/1/05
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	25.0	2"	10.10	2.80	0950	3.20	1230	
MW-2	25.0	2"	10.10	2.60	1000	4.20	1240	
MW-3	25.0	2"	10.00	6.50	1010	18.50	1250	
MW-4	25.0	2"	12.60	1.80	1020			No post-DO measurement
MW-5	25.0	2"	10.60	1.60	1030			No post-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

9.64/8.91
9.77/9.04

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	4/5/05
	Richmond, CA	DATE PREPARED:	4/1/2005
PREPARED FOR:	Jody Demello-Rice	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, 2, 3										
--	--	--	--		--	--				
--	--	--	--		--	--				
I-1, 2, 3	1100	1200	60	35	150 EA	2.5	MW-1	18.6	0950	PRE-INJ RDG
							MW-1	18.1	1110	
							MW-1	17.6	1130	
							MW-2	18.4	1000	PRE-INJ RDG
							MW-2	17.9	1120	
							MW-2	16.8	1140	
							MW-3	19.1	1010	PRE-INJ RDG
							MW-3	11.4	1125	
							MW-3	9.5	1150	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	4/19/05
	Richmond, CA	DATE PREPARED:	4/15/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 4/19/05 Did you call in? (Yes) No

Arrival Time: 1030 "Departure Time: 1430 Who did you call? Tm

Weather Notations: (SUN) RAIN SNOW Temperature 59° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
O2 FLAMES
TRAFFIC
TRUCKS
PPE

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 9.84 Post Injection: 8.97

Agitated Water Readings: Pre Injection: 9.93 Post Injection: 9.12

Instrument Type QRAE +

Instrument Calibration Method and Results AIR = 20.9% O_2

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:	4/19/05
	Richmond, CA	DATE PREPARED:	4/15/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 4/19/05

1030 ARV @ SITE TALK TO BRIAN (7-11) AND TM SAFETY:
HASP - FOR REVIEW. PROC
PPE - VEST KN-PDS, GLV'S, GLSS'S
TRIPS - BE AWARE
TRAFFIC - TAPE / CONE OFF TRUCK + WELLS
O_2 FLAME - NO SMOKING SIGNS, MONITOR O_2 LVL

PRE CAL DO = 9.84 / 8.97 = POST CAL DO
AG WTR = 9.93 / 9.12 = AG WTR

TAKE WELL READINGS, USE TRUCK AS BARRICADE

1215 O_2 INJ @ I-1-2-3 FOR 60 MIN @ 35 PSI.

1400 POST DO'S.

1430 DPT SITE

NO WELL BOX REPAIRS NEEDED

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	4/19/05
	Richmond, CA	DATE PREPARED:	4/15/05
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	25.0	2"	10.90	3.10	1120	4.00	1420	
MW-2	25.0	2"	10.90	3.00	1130	5.50	1410	
MW-3	25.0	2"	10.80	9.50	1140	20.10	1400	
MW-4	25.0	2"	13.00	1.80	1045			No post-DO measurement
MW-5	25.0	2"	11.40	1.60	1100			No post-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

(1 H_2O)

9.84/8.91
9.93/9.12

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	4/14/05
	Richmond, CA	DATE PREPARED:	4/15/2005
PREPARED FOR:	Jody Demello-Rice	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-1,2,3	1215	1315	60	35	150 Est.	2.5	MW-1	19.0	1120	PRE-INJ.
							MW-1	18.5	1230	
							MW-1	18.0	1305	
							MW-2	18.9	1130	PRE-INJ.
							MW-2	18.3	1240	
							MW-2	17.2	1310	
							MW-3	19.5	1140	PRE-INJ
							MW-3	11.8	1250	
							MW-3	9.9	1315	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1008
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	05/03/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 05/03/05 Did you call in? Yes No

Arrival Time: 0900 "Departure Time: 1215 Who did you call? DD

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

HASP
O_2 FLAME
TRAFFIC
TRIPS
PPE

INSTRUMENT CALIBRATION NOTES

Instrument Type 421 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 9.42 Post Injection: 8.78

Agitated Water Readings: Pre Injection: 9.38 Post Injection: 8.65

Instrument Type QRAE+

Instrument Calibration Method and Results AIR = 20.9% O_2

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:	05/03/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 05/03/05

0900 ARV ONSITE TALK TO BRIAN (7-11) AND SAFETY.
HASP - FOR BURRG. PROC.
O2 FLAME - NO SMOKING SIGNS, MONITOR O2 LEL
TRAFFIC - CONE OFF WELL + TRUCK
TRIPS - WATCH!
PPE - VEST, GLV'S, GLSS'S, KN-PDS

PRE CAL DO = 9.42/8.78 = POST CAL DO
AG WTR = 9.38/8.65 = AG WTR

TAKE WELL READS

1045 O2 INJ @ I-1, 2, 3 FOR 60 MIN. @ 35 PSI.
1145 POST DO'S
1215 OFF SITE

NO WELL PX REPAIRS

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	5/3/05
	Richmond, CA	DATE PREPARED:	4/29/05
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	25.0	2"	9.90	3.80	0955	5.00	1159	
MW-2	25.0	2"	8.90	3.70	1015	5.20	1210	
MW-3	25.0	2"	8.80	10.00	1030	20.90	1150	
MW-4	25.0	2"	11.10	2.10	0915			No post-DO measurement
MW-5	25.0	2"	9.40	1.80	0910			No post-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

1 H2O

9.42 / 8.78
9.38 / 8.65

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	5/3/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	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										
--	--	--	--		--	--	~~MW-1~~			~~Pre-Injection Readings~~
--	--	--	--		--	--	~~MW-2~~			~~Pre-injection Readings~~
							~~Mw-3~~			~~Pre-Injection Readings~~
I-1	1045	1145	60	35	150 Ex	2.5	MW-1	18.6	0955	PRE-INJ
							MW-1	18.1	1055	
							MW-1	17.7	1127	
							MW-2	18.5	1015	PRE-INJ
							MW-2	17.9	1108	
							MW-2	16.8	1139	
							MW-3	19.1	1030	PRE-INJ
							MW-3	11.4	1122	
							MW-3	9.5	1145	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	5/17/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 5/17/05 Did you call in? (Yes) No

Arrival Time: 1200 "Departure Time: 1430 Who did you call? DD

Weather Notations: SUN (RAIN) SNOW Temperature 55° F

DRUM INVENTORY

	WATER		CARBON	TOTAL OPEN TOP	0
	SOIL		EMPTY	TOTAL BUNG TOP	0

HEALTH AND SAFETY ASSESSMENT

HASP
PPE
O2 FLAME
TRAFFIC
TRIPS

INSTRUMENT CALIBRATION NOTES

Instrument Type MSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 882 Post Injection: 835

Agitated Water Readings: Pre Injection: 8.70 Post Injection: 8.27

Instrument Type GAS +

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:	5/17/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JPR Date: 5/17/05

1200 ARN ONSITE TALK TO JOSH (7-11) AND DD. SAFETY:
HASP - FOR BUNKERS. PROC.
PPE - VEST, GLV's, KN-PDS, GLSS's, RAIN GEAR.
TRAFFIC - CONE OFF TRUCK AND WELLS
O_2 FLAME - NO SMOKING SIGNS, CHECK O_2 LEL
TRIPS - WATCH IT SLIPPERY @ TRUCK + TERRAIN.

PRE CAL DO = 8.02/8.35 = POST CAL DO
AG WTR = 8.70/8.27 = AG. WTR

1300 O_2 INJ @ I-1, 2, 3 FOR 60 MIN @ 35 PSI.

1400 POST DO's USE TRUCK AS PROTECTANT.

1430 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	5/17/05
	Richmond, CA	DATE PREPARED:	4/29/05
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	25.0	2"	11.70	5.00	1220	6.10	1420	
MW-2	25.0	2"	11.70	4.80	1230	6.40	1425	
MW-3	25.0	2"	11.60	15.50	1240	28.70	1430	
MW-4	25.0	2"						No DO measurement
MW-5	25.0	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

0 BBLS

8.82/8.35
8.70/8.27

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	5/17/05
	Richmond, CA	DATE PREPARED:	4/29/2005
PREPARED FOR:	Jody Demello-Rice	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										
--	--	--	--		--	--	~~MW-1~~			~~Pre-injection Readings~~
--	--	--	--		--	--	~~MW-2~~			~~Pre-injection Readings~~
							~~Mw-3~~			Pre-injection Readings
I-1,2,3	1300	1400	60	35	150 EA.	2.5	MW-1	18.9	1220	PRE-INJ
							MW-1	18.4	1310	
							MW-1	17.8	1330	
							MW-2	18.9	1230	PRE INJ
							MW-2	17.9	1315	
							MW-2	16.4	1335	
							MW-3	19.8	1240	PRE-INJ
							MW-3	11.5	1320	
							MW-3	9.9	1340	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6-7-05
	Richmond, CA	DATE PREPARED:	5/31/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Daniel Davis

SITE VISITATION REPORT

Name(s) JDR Date: 6-7-05 Did you call in? (Yes) No

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

Weather Notations: (SUN) RAIN SNOW Temperature 75° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
O2 FLAME
PPE
TRAFFIC
TRIPS

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 8.79 Post Injection: 8.33

Agitated Water Readings: Pre Injection: 8.73 Post Injection: 8.25

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:	6-1-05
	Richmond, CA	DATE PREPARED:	5/31/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Daniel Davis

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 6-1-05

1230 ARR ONSITE TALK TO BLDG MNGR/OWNER + D.D. SAFETY.
HASP - FOR EMERG. PROC.
TRAFFIC - CONE OFF TRUCK + WELLS
TRIPS - WATCH IT!
PPE - GLV's, GLSS's, VEST, KNO-PDS
O2 FLAME - NO SMOKING SIGNS, MONITOR O2 LEL

PRE CAL DO = 8.79 / 8.33 = POST CAL DO.
AG WTR = 8.73 / 8.25 = AG WTR

CHECKED WELLS

1330 O2 INJ @ I-1,2,3 FOR 60 MIN @ 35 PSI.

1430 POST DO's

1500 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6-1-05
	Richmond, CA	DATE PREPARED:	5/31/05
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Danlel 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	25.0	2"	9.2	2.8	1310	4.9	1450	
MW-2	25.0	2"	9.2	3.1	1325	5.4	1440	
MW-3	25.0	2"	9.1	10.3	1245	28.2	1430	
MW-4	25.0	2"						No DO measurement
MW-5	25.0	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

8.79/8.33
8.73/8.25

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6-1-05
	Richmond, CA	DATE PREPARED:	5/31/2005
PREPARED FOR:	Jody Demello-Rice	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										
--	--	--	--		--	--				Pre-injection Readings
--	--	--	--		--	--				Pre-injection Readings
										Pre-injection Readings
I-1,2,3	1330	1430	60	35	150 EA	2.5	MW-1	19.2	1310	PRE-INJ
							MW-1	18.7	1405	
							MW-1	18.0	1430	
							MW-2	19.1	1325	PRE-INJ
							MW-2	18.2	1355	
							MW-2	16.8	1420	
							MW-3	19.8	1245	PRE-INJ
							MW-3	11.8	1345	
							MW-3	10.3	1410	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/14/05
	Richmond, CA	DATE PREPARED:	6/13/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) JDR Date: 6/14/05 Did you call in? Yes No

Arrival Time: 0900 "Departure Time: 1130 Who did you call? TM

Weather Notations: SUN RAIN SNOW Temperature 83 F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
PPE
O_2 FLAME
TRAFFIC
TREPS

INSTRUMENT CALIBRATION NOTES

Instrument Type 451 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 9.28 Post Injection: 8.77

Agitated Water Readings: Pre Injection: 9.20 Post Injection: 8.65

Instrument Type QRAE+

Instrument Calibration Method and Results AIR @ 20.9% O_2

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:	6/14/05
	Richmond, CA	DATE PREPARED:	6/13/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 6/14/05

0900 ARV ONSITE TALK TO SHASTA + RANDY (MINGR) + TM. SAFETY: TRAFFIC - CONE OFF TRUCK + WELLS, VAGRENTS STILL COME AND SIT ON YOUR TRUCK!!

PRE CAL DO = 9.28 / 8.77 = POST CAL DO
AG WTR - 9.20 / 8.65 = AG WTR

CHECK WELLS

0930 O_2 INJ @ I-1,2,3 FOR 60 MIN @ 35 PSI.

POST DO's USING TRUCK AGAINST TRAFFIC IN DRIVE WAYS.

1130 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/14/05
	Richmond, CA	DATE PREPARED:	6/13/05
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ~~PZ~~ 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"	9.5	1.9	0915	4.4	1100	
MW-2	20.0	2"	9.5	1.1	0925	6.1	1110	
MW-3	20.0	2"	9.4	16.8	0905	32.2	1120	
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

9.28/8.77
9.20/8.65

BUMBS ?!

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.08.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/14/05
	Richmond, CA	DATE PREPARED:	6/13/2005
PREPARED FOR:	Jody Demello-Rice	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										
--	--	--	--		--	--				Pre-injection Readings
--	--	--	--		--	--				Pre-injection Readings
										Pre-injection Readings
I-1,2,3	0930	1030	60	35	150 EA.	2.5	MW-1	19.6	0915	PRE-INJ
							MW-1	19.1	0950	
							MW-1	18.4	1010	
							MW-2	19.5	0925	PRE-INJ
							MW-2	18.6	0940	
							MW-2	17.2	1020	
							MW-3	20.1	0905	PRE-INJ
							MW-3	12.2	1000	
							MW-3	10.7	1030	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/29/05
	Richmond, CA	DATE PREPARED:	6/27/2005
PREPARED FOR:	Jody Demello-Rice	PREPARED BY:	Daniel Davis

SITE VISITATION REPORT

Name(s) JDR Date: Did you call in? Yes No

Arrival Time: 1215 "Departure Time: 1430 Who did you call? TM

Weather Notations: SUN RAIN SNOW Temperature 98° F

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

HASP
PPE
O_2 FLAME
TRIPS
TRAFFIC

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 8.57 Post Injection: 8.25

Agitated Water Readings: Pre Injection: 8.42 Post Injection: 8.17

Instrument Type QRAE+

Instrument Calibration Method and Results AIR @ 20.9% O_2

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
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DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR Date: 6/29/05

1215 ARN ONSITE. TALK TO RANDY (7-11) AND TM. SET-UP SAFETY MEASURES ONSITE. USE TRUCK AS BARRICADE TO CHECK WELLS IN DRIVE TRAFFIC.

PRE CAL DO = 8.57 / 8.25 = POST CAL DO
AGWR = 8.42 / 8.18 = AG. WTR

CHECK WELLS

1300 O2 INJ @ I-1,2,3 FOR 60 MIN @ 35 PSI.

1430 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/29/05
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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"	11.1	0.9	1225	4.1	1425	
MW-2	20.0	2"	10.9	0.7	1235	5.5	1415	
MW-3	20.0	2"	11.2	1.39	1245	3.33	1405	
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

(1 H_2O)

8.57/ 8.25
8.42/ 8.42

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	6/29/05
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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										
--	--	--	--		--	--	~~MW-1~~			~~Pre-injection Readings~~
--	--	--	--		--	--	~~MW-2~~			~~Pre-injection Readings~~
							~~MW-3~~			~~Pre-injection Readings~~
I-1 2,3	1300	1400	60	35	150 EA.	2.5	MW-1	19.2	1225	PRE INJ
							MW-1	19.0	1315	
							MW-1	18.4	1355	
							MW-2	19.1	1235	PRE INJ
							MW-2	18.5	1310	
							MW-2	17.7	1350	
							MW-3	20.1	1245	PRE INJ
							MW-3	13.7	1305	
							MW-3	10.9	1345	