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Quarterly Groundwater Monitoring Report
Fourth Quarter 2004

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

SECOR Project No.: 77EL.20244.04

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

Prepared on behalf of:
7-Eleven, Inc.
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January 31, 2005

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REGISTERED GEOLOGIST
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No. 6435
STATE OF CALIFORNIA

DATE: January 31, 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.20244.04
Primary Agency:	Regional Water Quality Control Board - San Francisco Bay Region (RWQCB – SFBR)

WORK PERFORMED THIS QUARTER [Fourth – 2004]

1. Conducted groundwater monitoring and sampling of five wells on December 15, 2004.
2. Prepared quarterly groundwater sampling and monitoring report.
3. RWQCB approved the work plan to install 3 oxygen injection wells on October 4, 2004.
4. Three oxygen injection wells were installed on December 14-15, 2004

WORK PROPOSED FOR NEXT QUARTER [First – 2005]

1. Perform quarterly groundwater sampling and prepare report.
2. Submit well installation and oxygen feasibility test results to RWQCB.
3. Prepare a report summarizing installation of the oxygen injection wells.
4. Inject oxygen in wells and report results.

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:	Pending
Permits for Discharge:	None
Historic Range in Depth to Water, Q1-99 to Q4-04	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)	11.97 to 13.90 ft bgs
Average Change in Groundwater Elevation Since Last Event:	2.41 foot increase
Groundwater Flow Direction and Gradient:	Southeast @ 0.015 foot per foot (Figure 2)
Current Quarter Analytical Data	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	MW-3, 5,300 µg/L
Maximum Benzene Concentrations	MW-3, 310 µg/L
Maximum MtBE Concentrations	MW-3, 18,000 µg/L
Maximum TBA Concentrations	MW-3, 6,200 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 (ug/L) benzene, 11,000 ug/L TPHg, and 4,800 ug/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 drilled 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 ug/L benzene, 6.93 ug/L TPHg, and 6.79 ug/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.

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.

PURGE AND RINSATE WATER DISPOSAL

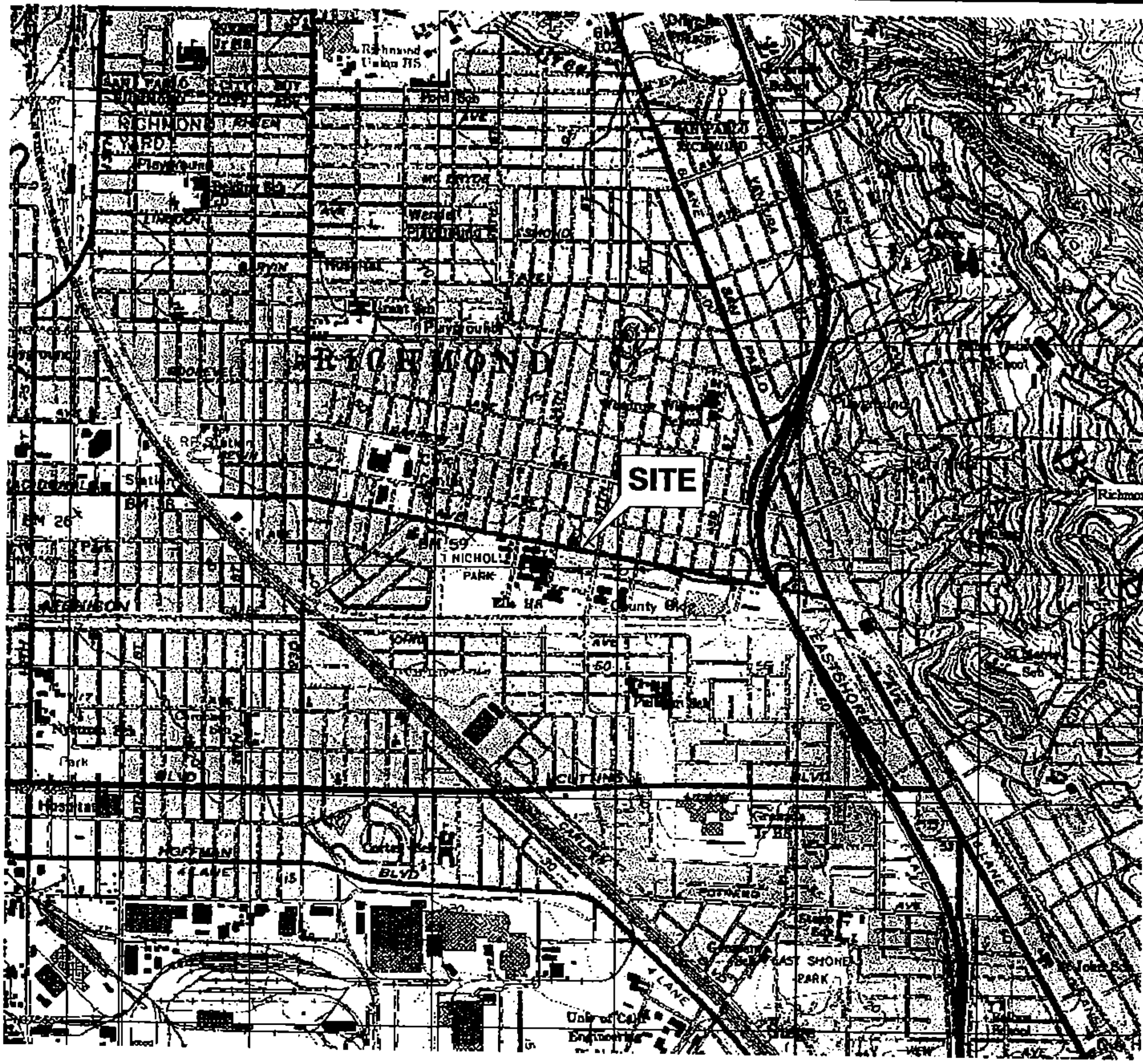
Water generated during well sampling and equipment cleaning was pumped into a SECOR truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental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

ATTACHMENTS

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

cc: Ms. Barbara Sieminski – Regional Water Quality Control Board, San Francisco Bay Region
Mr. Paul Andrews - Contra Costa County Environmental Health Division

FIGURES



REFERENCE: DELORME TOPOQUAD, CALIFORNIA
NORTH REGION 5

0 2000 4000
SCALE IN FEET

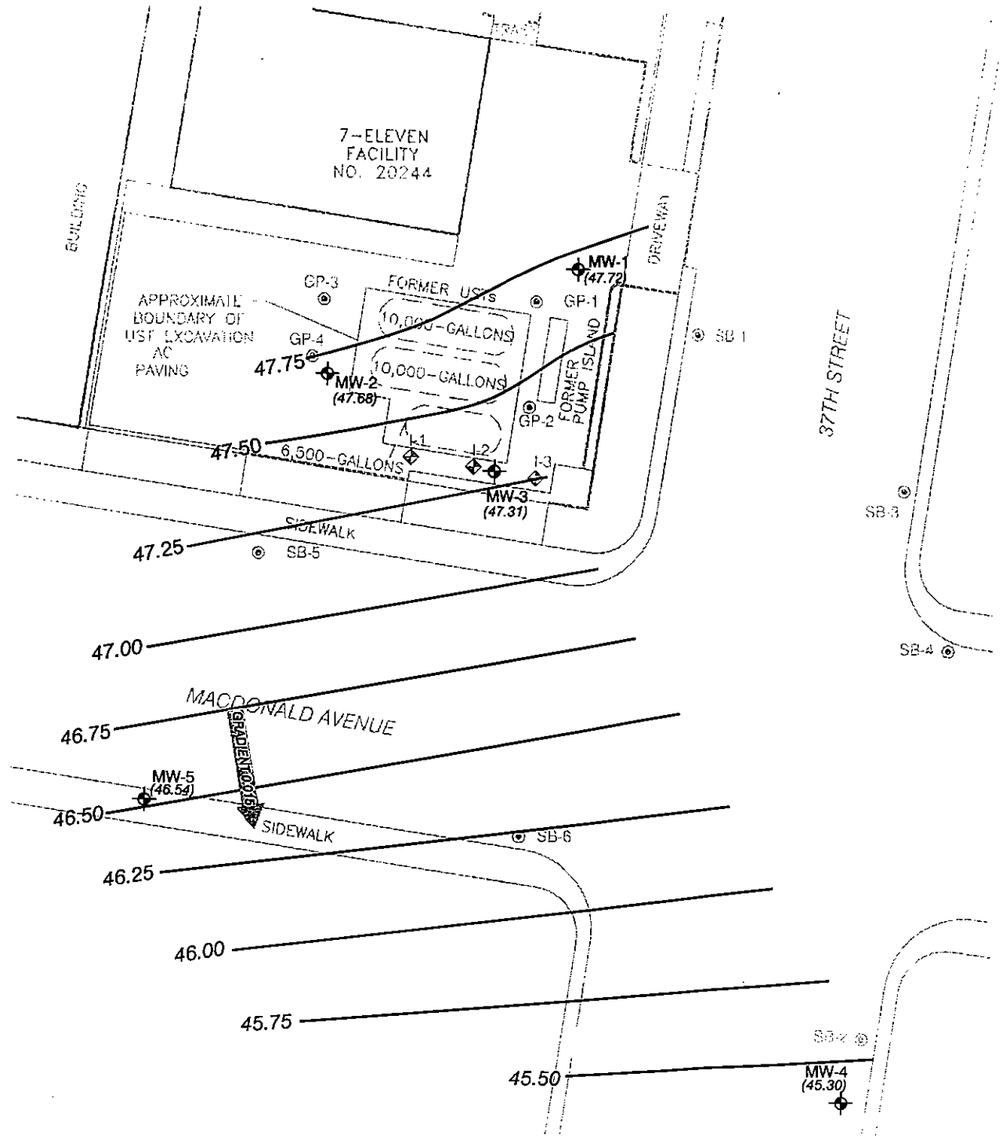
N

M:ACAD\7-11\20244\SITELOC.CDR

SECOR

DRAWN	PR
APPR	JSA
DATE	12DEC2002
JOB NO.	

FIGURE 1
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
SITE LOCATION MAP



LEGEND:

- MONITORING WELL
- SOIL BORING
- I-1 OXYGEN INJECTION WELL
- GRADIENT 0.0016 — APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT FT/FT
- 44.00 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- (44.91) — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 30 60
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.

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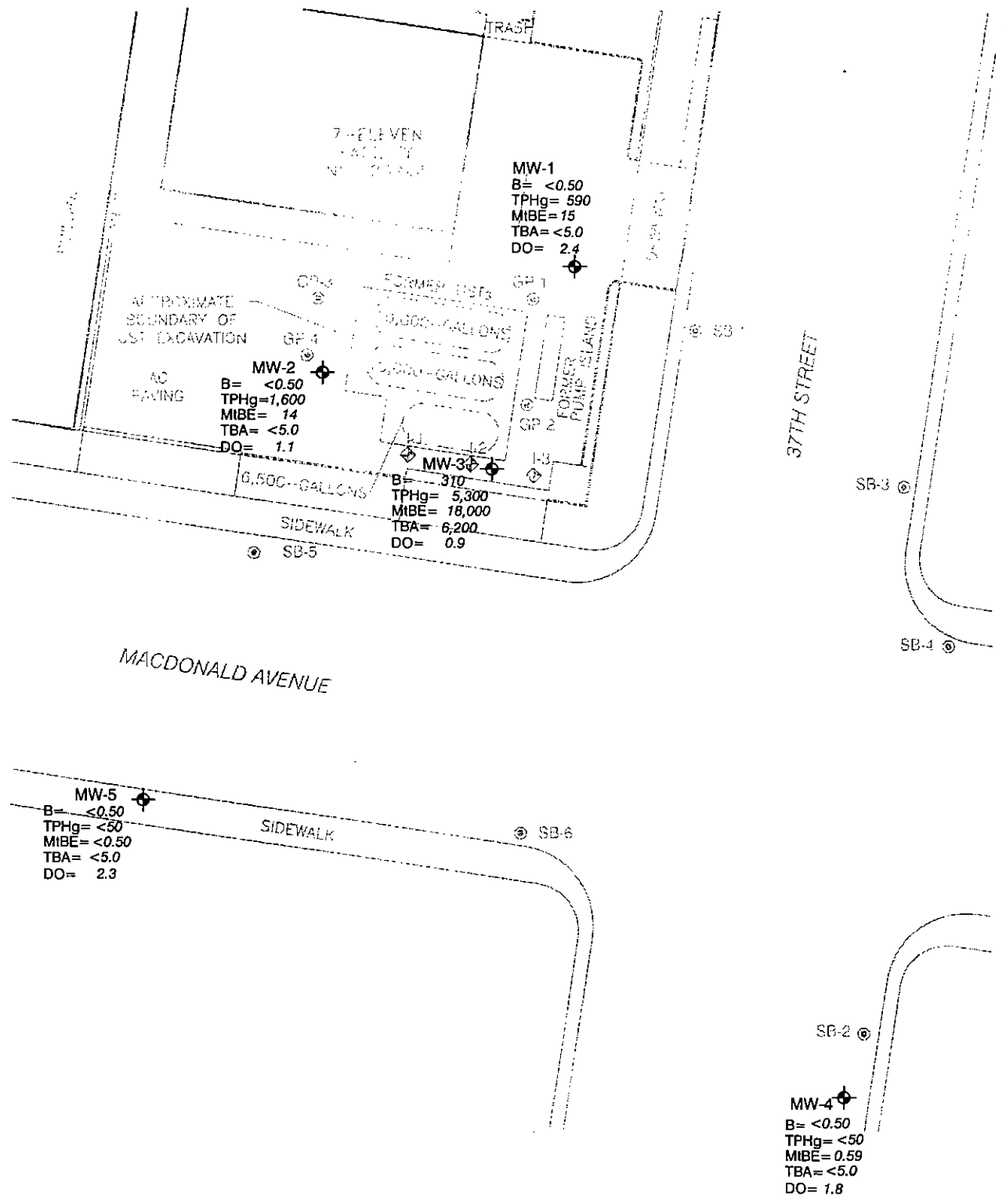
DRAWN	CBD
APPR	JSA
REV. DATE	1/5/04 DWR
JOB NO.	77EL.20244.04

FIGURE 2
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
GROUNDWATER ELEVATION
CONTOUR MAP
DECEMBER 15, 2004



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 30 60

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

DRAWN	CBD
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REV. DATE	1/5/05 DWR
JOB NO.	77EL.20244.04

FIGURE 3
7-ELEVEN, INC.
FACILITY NO. 20244
3625 MACDONALD AVENUE
RICHMOND, CALIFORNIA
GROUNDWATER HYDROCARBON CONCENTRATION MAP
DECEMBER 15, 2004

TABLES

Table 1
Fourth Quarter 2004 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	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
MW-2 59.65	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
MW-3 59.59	12/15/04	**310**	<50	**270**	**76**	**5,300**	**18,000**	**6,200**	<50	<50	<50		0.9	12.28	0.00	47.31
MW-4 59.20	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
MW-5 58.94	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

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 TPHg do not exhibit a typical Gasoline chromatographic pattern.

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

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

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

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
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

Table 1
Fourth Quarter 2004 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	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
MW-2 59.65	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
MW-3 59.59	12/15/04	**310**	<50	**270**	**76**	**5,300**	**18,000**	**6,200**	<50	<50	<50		0.9	12.28	0.00	47.31
MW-4 59.20	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
MW-5 58.94	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

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 TPHg do not exhibit a typical Gasoline chromatographic pattern.

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.

Table 3
Soil Boring and Well Construction Details

7-Eleven Site No. 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	24.5	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

ATTACHMENT A
FIELD NOTES

Quarterly Groundwater Monitoring
Report - Fourth Quarter 2004
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	12-15-04
	Richmond, CA	DATE PREPARED:	12/13/04
PREPARED FOR:	Peng Vang	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Peng Vang
Arrival Time: 0900
Weather Notations: SUN (CLOUDY) RAIN SNOW

Date: 12-15-04
*Departure Time:

Did you call in? (Yes) No
Who did you call? Tom miller
Temperature 67° F

DRUM INVENTORY

1	WATER		CARBON	TOTAL OPEN TOP	8
7	SOIL	Ø	EMPTY	TOTAL BUNG TOP	

HEALTH AND SAFETY ASSESSMENT

Traffic - moderate to light. set up deliniators for safty & visability. watched for foot traffic.

CALIBRATION

Ec Calibration Reading
pH Two Pt. Calibration: Reading1 Reading 2

DO Calibration

Pre-Calibration reading 9.4 Calibration Reading 9.4 Post Calibration Reading 8.7
Agitated Water reading 9.4

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

Arrived on site - Review HASP - Check in with Store manager.
Waited for Daneille to finish Drilling.
Locate & open all wells. Locate drum on site.
Decon - Gauge wells monitor DTW - DTB - DO
Purge well - record ph, ec, temp.
grab samples - transfer water to Drum on site. Decon

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0702
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	12-15-04
	Richmond, CA	DATE PREPARED:	12/13/04
PREPARED FOR:	Peng Vang	PREPARED BY:	Tom Miller

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	13.9	24.27		1.8			
MW-5	25	2"	58.94	12.4	24.38		2.3			
MW-1	20	2"	59.86	12.14	19.88		2.4			
MW-2	20	2"	59.65	11.97	20.19		1.1			
MW-3	20	2"	59.59	12.28	20.21		.9			
	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- 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 12-15-04 START (2400hr) 1315 END (2400hr) 1327

DATE SAMPLED 12-15-04 SAMPLE TIME (2400hr) 1335

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) = 19.88 CASING VOLUME (gal) = 1.5

DEPTH TO WATER (feet) = 12.14 CALCULATED PURGE (gal) = 4.5

WATER COLUMN HEIGHT (feet) = 7.74 ACTUAL PURGE (gal) = 4.7

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
12-15-04	1325	1.5	20.4	451	6.51	Lt. Brn	Low
↓	1326	3.0	20.6	450	6.46	Lt. Brn	Low
↓	1327	4.5	20.7	440	6.41	Lt. Brn	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.21 SAMPLE TURBIDITY: Low

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

ODOR: 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 - 2.4

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 12-15-04 START (2400hr) 1345 END (2400hr) 1358

DATE SAMPLED 12-15-04 SAMPLE TIME (2400hr) 1410

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

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

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 20.19 CASING VOLUME (gal) = 1.5

DEPTH TO WATER (feet) = 11.97 CALCULATED PURGE (gal) = 4.5

WATER COLUMN HEIGHT (feet) = 8.22 ACTUAL PURGE (gal) = 4.6

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
12-15-04	1355	1.5	20.7	670	6.31	Semi Clear	Low
	1357	3.0	20.5	743	6.30	Semi Clear	Low
	1358	4.5	20.6	793	6.26	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.07 SAMPLE TURBIDITY: Low

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

ODOR: 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 - 1.1

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 12-15-04 START (2400hr) 1420 END (2400hr) 1432
DATE SAMPLED 12-15-04 SAMPLE TIME (2400hr) 1445
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) = 20.21 CASING VOLUME (gal) = 1.5
DEPTH TO WATER (feet) = 12.28 CALCULATED PURGE (gal) = 4.5
WATER COLUMN HEIGHT (feet) = 7.93 ACTUAL PURGE (gal) = 4.7

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
12-15-04	1430	1.5	20.8	762	6.32	Clear	NO
↓	1431	3.0	21.0	777	6.33	Clear	NO
↓	1432	4.5	21.2	824	6.36	Clear	NO

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.33 SAMPLE TURBIDITY: NO

80% RECHARGE: X YES ___ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B
ODOR: 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 - .9

SIGNATURE: [signature]

8.7

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 12-15-04 START (2400hr) 1200 END (2400hr) 1214
DATE SAMPLED 12-15-04 SAMPLE TIME (2400hr) 1225
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) = 24.27 CASING VOLUME (gal) = 2.0
DEPTH TO WATER (feet) = 13.9 CALCULATED PURGE (gal) = 6.0
WATER COLUMN HEIGHT (feet) = 10.37 ACTUAL PURGE (gal) = 6.1

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
12-15-04	1210	2.0	18.2	378	6.98	Clear	NO
	1212	4.0	20.0	373	6.74	Lt. BRN	Low
	1214	6.0	20.8	367	6.62	Lt. BRN	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 14.11 SAMPLE TURBIDITY: Low

80% RECHARGE: X YES ___ NO ANALYSES: BTEX, TPHg, 5 Oxygenates Via EPA 8260B
ODOR: 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. 1.8

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 12-15-04 START (2400hr) 1240 END (2400hr) 1254

DATE SAMPLED 12-15-04 SAMPLE TIME (2400hr) 1305

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) = 24.38 CASING VOLUME (gal) = 2.0

DEPTH TO WATER (feet) = 12.40 CALCULATED PURGE (gal) = 6.0

WATER COLUMN HEIGHT (feet) = 11.98 ACTUAL PURGE (gal) = 6.1

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
12-15-04	1250	2.0	20.1	588	6.60	Lt. Blu	Low
	1252	4.0	20.5	531	6.52	Semi Clear	Low
	1254	6.0	20.5	532	6.54	Semi Clear	Low

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 12.43 SAMPLE TURBIDITY: Low

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

ODOR: 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 - 2.3

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.20244.04 Task # 0410
Project Manager Jaff Auchterlonie
Laboratory Kiff Analytical
Turnaround Time Standard

Sampler's Name Peng Vang
Sampler's Signature Peng Vang

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	12-15-04	1335	Water	x	X							X						01	3
MW-2		1410	Water	x	X							X						02	3
MW-3		1445	Water	x	X							X						03	3
MW-4		1225	Water	x	X							X						04	3
MW-5		1305	Water	x	X							X						05	3

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

Relinquished by: Peng Vang
Sign Peng Vang
Print Peng Vang
Company SECOR
Time ____ Date 12-15-04

Received by:
Sign
Print
Company
Time ____ Date

Relinquished by:
Sign
Print
Company
Time ____ Date

Received by:
Sign Jeremy D Jenkins
Print Jeremy D Jenkins
Company Kiff Analytical
Time 1445 Date 12/20/04

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: Peng Vang Page 1/1

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

Quarterly Groundwater Monitoring
Report – Fourth Quarter 2004
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

KIFF ANALYTICAL LLC

Report Number : 41597
Date : 12/27/2004

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.20244.04

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 DEC 28 2004

KIFF ANALYTICAL LLC

Report Number : 41597
Date : 12/27/2004

Subject : 5 Water Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

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: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41597

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

Sample : **MW-1** Matrix : Water Lab Number : 41597-01

Sample Date :12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	**15**	0.50	ug/L	EPA 8260B	12/21/2004
Diisopropyl ether (DIPE)	**3.5**	0.50	ug/L	EPA 8260B	12/21/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/21/2004
TPH as Gasoline	**590**	50	ug/L	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Surr)	95.4		% Recovery	EPA 8260B	12/21/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41597

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

Sample : **MW-2** Matrix : Water Lab Number : 41597-02

Sample Date :12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	**14**	0.50	ug/L	EPA 8260B	12/21/2004
Diisopropyl ether (DIPE)	**0.72**	0.50	ug/L	EPA 8260B	12/21/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/21/2004
TPH as Gasoline	**1600**	50	ug/L	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	12/21/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41597

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

Sample : **MW-3** Matrix : Water Lab Number : 41597-03

Sample Date :12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**310**	50	ug/L	EPA 8260B	12/21/2004
Toluene	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Ethylbenzene	**270**	50	ug/L	EPA 8260B	12/21/2004
Total Xylenes	**76**	50	ug/L	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	**18000**	50	ug/L	EPA 8260B	12/21/2004
Diisopropyl ether (DIPE)	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Ethyl-t-butyl ether (ETBE)	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Tert-amyl methyl ether (TAME)	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Tert-Butanol	**6200**	500	ug/L	EPA 8260B	12/21/2004
TPH as Gasoline	**5300**	5000	ug/L	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	84.3		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Surr)	91.8		% Recovery	EPA 8260B	12/21/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41597

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

Sample : **MW-4** Matrix : Water Lab Number : 41597-04

Sample Date :12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	**0.59**	0.50	ug/L	EPA 8260B	12/21/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/21/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Surr)	95.0		% Recovery	EPA 8260B	12/21/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41597

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

Sample : **MW-5** Matrix : Water Lab Number : 41597-05

Sample Date :12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	12/21/2004
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/21/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	12/21/2004

Approved By: Joel Kiff

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

Report Number : 41597

Date : 12/27/2004

QC Report : Method Blank Data

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

Project Number : **77EL.20244.04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/20/2004
Toluene - d8 (Surr)	96.4		%	EPA 8260B	12/20/2004
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	12/20/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/20/2004
Toluene - d8 (Surr)	86.8		%	EPA 8260B	12/20/2004
4-Bromofluorobenzene (Surr)	92.6		%	EPA 8260B	12/20/2004

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 : 41597

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/27/2004

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

Project Number : **77EL.20244.04**

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	41513-07	<0.50	40.0	40.0	40.7	39.4	ug/L	EPA 8260B	12/21/04	102	98.4	3.44	70-130	25
Toluene	41513-07	<0.50	40.0	40.0	39.0	36.8	ug/L	EPA 8260B	12/21/04	97.5	92.1	5.69	70-130	25
Tert-Butanol	41513-07	<5.0	200	200	208	201	ug/L	EPA 8260B	12/21/04	104	100	3.58	70-130	25
Methyl-t-Butyl Ether	41513-07	<0.50	40.0	40.0	40.8	39.6	ug/L	EPA 8260B	12/21/04	102	99.1	2.78	70-130	25
Benzene	41513-04	<0.50	40.0	40.0	45.9	43.1	ug/L	EPA 8260B	12/20/04	115	108	6.10	70-130	25
Toluene	41513-04	<0.50	40.0	40.0	39.5	37.4	ug/L	EPA 8260B	12/20/04	98.7	93.5	5.47	70-130	25
Tert-Butanol	41513-04	<5.0	200	200	190	210	ug/L	EPA 8260B	12/20/04	94.8	105	10.0	70-130	25
Methyl-t-Butyl Ether	41513-04	<0.50	40.0	40.0	42.1	43.3	ug/L	EPA 8260B	12/20/04	105	108	2.76	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41597

Date : 12/27/2004

QC Report : Laboratory Control Sample (LCS)

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

Project Number : **77EL.20244.04**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/20/04	104	70-130
Toluene	40.0	ug/L	EPA 8260B	12/20/04	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/20/04	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/20/04	104	70-130
Benzene	40.0	ug/L	EPA 8260B	12/20/04	111	70-130
Toluene	40.0	ug/L	EPA 8260B	12/20/04	98.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/20/04	97.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/20/04	103	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Chain of Custody Number: 41597

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.20244.04 Task # 0410
Project Manager Jaff Auchterlonie
Laboratory Kiff Analytical
Turnaround Time Standard

Sampler's Name Peng Vang
Sampler's Signature [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	12-15-04	1335	Water	x	X							X						01	3
MW-2		1410	Water	x	X							X						02	3
MW-3		1445	Water	x	X							X						03	3
MW-4		1225	Water	x	X							X						04	3
MW-5		1305	Water	x	X							X						05	3

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

Relinquished by: Peng Vang
Sign [signature]
Print Peng Vang
Company Secor
Time Date 12-15-04

Received by:
Sign
Print
Company
Time Date

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign [signature]
Print Jeremy D Jenkins
Company Kiff Analytical
Time 1445 Date 12/17/04

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: [signature] Page 1/1