URS

REPORT
2002 FIRST QUARTER
GROUNDWATER MONITORING
FORMER SEARS RETAIL CENTER #1039
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
CASE I.D. # STID 1082
FOR SEARS, ROEBUCK & CO.

URS Job No. 22-00000302.02
August 5, 2002

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GROUNDWATER MONITORING
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1.0 INTRODUCTION

This report has been prepared by URS Corporation on behalf of Sears, Roebuck & Co. (Sears). It presents results of the 2002 First Quarter Groundwater Monitoring conducted at the above-referenced Site (Figure 1). The Sears Auto Center (Site) is located at 1901-1911 Telegraph Avenue in Oakland, California. The groundwater monitoring event consisted of "post purge" groundwater sample collection from six of nine monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9). The purpose of the groundwater monitoring was to assess current groundwater conditions in the vicinity of a former gasoline concession area (Figure 2). The work is being performed under regulatory oversight of the Alameda County Environmental Health Service (ACEHS).

2.0 SITE DESCRIPTION

The Site is located at 1901-1911 Telegraph Avenue, Oakland California (Figure 1). The Site is bordered on the north by Williams Street, Telegraph Avenue to the east, 19th Street to the south, and San Pablo Avenue to the west (Figure 2). The property is occupied by a Sears Auto Center, a former Chevron Service Station, and a three-story above-grade parking garage.

2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is approximately 1.5 miles east of the San Francisco Bay and three miles west of the Diablo Range in Oakland, California. The area is located on the eastern flank of The San Francisco Basin, a broad Franciscan depression. Basement rock of the basin is respectively overlain by the Santa Clara Formation, the Alameda Formation, and the Temescal Formation. These formations consist of unconsolidated sediments varying in total thickness from approximately 300 to 1,000 feet. The Pleistocene Santa Clara Formation consists primarily of alluvial fan deposits that are interspersed with lake, swamp, river channel, and flood plain deposits. The overlying Alameda Formation was

deposited in an estuary environment and consists of organic clays and alluvial fan deposits of sands, gravels and silts. The uppermost Holocene Temescal Formation is an alluvial deposit ranging in thickness from 1 to 50 feet and consists primarily of silts and clays with a basal gravel unit. (CRWQCB, San Francisco Bay Region, June 1999).

The Site is located within the Oakland sub-area of the East Bay Plain groundwater basin. The East Bay Plain groundwater basin encompasses approximately 115 square miles and is bounded by San Pablo Bay to the north, Alameda County to the south, the Hayward Fault to the east, and San Francisco Bay to the west. Groundwater flow direction in the basin typically follows surface topography. Historical high production wells in the Oakland sub-area were screened at depths greater than 200 feet below ground surface (bgs) beneath the Yerba Buena Mud Member of the Alameda Formation. The Yerba Buena Mud is a black organic clay with an average thickness of 25 to 50 feet that forms an aquitard between upper and lower groundwater bearing units. From the 1860's until water importation programs were initiated in the 1930's, groundwater in the East Bay Plain was utilized as the primary municipal water source. Current beneficial uses of groundwater in the basin are minimal (CRWQCB, San Francisco Bay Region, June 1999).

3.0 BACKGROUND

The Site consists of a Sears Auto Center, a multiple level parking structure, and a former Chevron Service Station. The Sears Auto Center is currently in operation; it is a converted former Goodyear Tire Center. The former Chevron Service Station contained three gasoline USTs and used oil UST. The USTs were removed in January 1988, prior to Sears' ownership of the site.

A total of 9 groundwater monitoring wells (MW-1 to MW-9) have been installed, before and after the property's purchase by Sears, to evaluate the extent of gasoline impacted groundwater emanating from the former Chevron Station's UST area. The prior owners, Broadway/Federated Department Stores, began initial investigation work and groundwater monitoring. Subsequent to the property's purchase by Sears during a bankruptcy proceeding, Sears has continued quarterly groundwater monitoring (since June 1996), and has installed additional wells to define the down-gradient extent of the gasoline groundwater plume.

Groundwater has been monitored since January 1988. Well MW-1 has been monitored on a periodic basis since January 1988 while wells MW-2, MW-3 and MW-4 have been monitored on a periodic bases since June 1993. Wells MW-5, MW-6 and MW-7 have been monitored on a periodic basis since June 1994. Historical monitoring data shows that dissolved phase total petroleum hydrocarbons as gasoline-range organics (TPHg) and dissolved phase benzene has been detected in 5 of 9 wells. Dissolved phase benzene was detected in 4 of the 9 wells sampled during 2002 First

5.4 WELL HEAD MAINTANANCE

As part of the quarterly monitoring program each well head is inspected to ensure that wells are properly sealed and secured. The routine well maintenance associated with the quarterly groundwater sampling consists of: inspection of water-tight well caps and locks on all monitoring wells and replacement as necessary; replacement of missing or damaged bolts on well box covers; and removal and replacement of damaged well boxes and associated concrete aprons. No maintenance was required this quarter.

5.5 WASTE MANAGEMENT

Liquid wastes (well purge water) were collected and stored in three 55-gallon DOT-approved drums. Containers were numbered to identify the source of the wastes. The containers were stored onsite and properly disposed of by Sears, Roebuck & Co. following review of the chemical analysis data.

6.0 FINDINGS

6.1 SHALLOW GROUNDWATER CONDITIONS

Historical groundwater measurements collected since June 1996 indicate that the potentiometric surface beneath the Site has fluctuated from approximately 12 to 18 feet bgs (75 to 80 feet MSL). Water level measurements collected during the previous groundwater monitoring events indicate groundwater flow is to the east with an approximate gradient of 0.01.

The measured depth to water ranged from 12.73 feet to 16.87 feet bgs or approximately 76.93 feet to 79.82 feet above mean sea level (msl) during the 2002 first quarter. An interpretive groundwater elevation contour map, based on the 2002 first quarter water level measurements, is provided as Figure 3. The groundwater elevation contours were generated by Kriging (a geostatistical gridding method) using SURFER™, a graphical, contouring software program. The resultant groundwater contours indicate an easterly groundwater flow direction with a gradient of about 0.01 (Figure 3).

6.2 LABORATORY ANALYTICAL RESULTS

TPHg was detected in four of the groundwater samples collected from wells MW-2, MW-5, and MW-7 with concentrations ranging from 81 micrograms per liter (µg/L), to 34,000 µg/L. TPHo was detected in four of the groundwater samples collected from wells MW-1, MW-5, and MW-7 with concentrations ranging from 70 µg/L to 740 µg/L. Benzene was detected in four of the groundwater samples collected from wells MW-2, MW-4, and MW-7 with concentrations ranging from 1.4 µg/L to 6500 µg/L. Groundwater samples collected from wells MW-1, MW-2, MW-4, MW-5, MW-7,

and MW-9 did not contain detectable concentrations of TPHd, toluene, or MTBE. Various chlorinated VOC's including tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), were detected in the groundwater samples collected from wells MW-1, MW-2, and MW-9. Detected concentrations of chlorinated VOC's ranged from 0.73 µg/L to 32 µg/L.

Chemical analysis results of the 2002 First Quarter Groundwater Monitoring are presented in Table 2. A copy of the laboratory reports and chain-of-custody records is included in Appendix B. Groundwater isoconcentration maps for Benzene and TPHg for the 2002 First Quarter are shown on Figures 4 and 5, respectively. URS conducted a check of data completeness for the analytical laboratory reports. Results indicate that "these data are usable, as qualified, for their intended purpose". A copy of URS's Data Validation Memos are included in Appendix C.

7.0 DISCUSSION

The 2002 first quarter groundwater monitoring event represents the 25th groundwater sampling event conducted at the Site. Groundwater elevations have increased approximately 0.5 feet since the last sampling event conducted in July 2001. Groundwater flow direction is towards the east with a gradient of 0.01. TPHg and benzene was detected in three of the six wells sampled with concentrations up to 34,000 µg/L and 6,500 µg/L, respectively. TPHg and benzene concentrations in well MW-7 have steadily increased during the last several years suggesting that the affected groundwater plume is migrating to the east. The suspected source is the location of the former gasoline USTs and fuel dispensing area of the former Chevron station on the Site.

The gasoline USTs were removed from the Site prior to the widespread use of fuel oxygenates. Analytical data does not confirm the presence of MTBE or other fuel oxygenates in groundwater samples collected from the site.

Chlorinated VOC's have been detected in both the upgradient well MW1 and the downgradient well MW-9 during this and previous groundwater sampling events. Potential onsite sources of the chlorinated compounds have not been identified. However, a widespread groundwater plume containing chlorinated compounds has been identified in the site vicinity by Harding ESE and is referenced in the Fourth Quarter 2001 Groundwater Monitoring Report for the site (IT Corp., May 2002).

Based on the data collected during this and previous monitoring events, the lateral limits of TPHg and BTEX affected groundwater can be described by an oval shaped plume with a diameter of approximately 200 feet. URS recommends that two additional groundwater monitoring wells be

installed east of the former Chevron service station to provide additional plume definition immediately down-gradient of the suspected source area. The proposed monitoring well locations are shown on Figure 2.

8.0 SCHEDULE

Future activities at the Site will include continued quarterly groundwater monitoring and installation of two additional monitoring wells. The 2002 second quarter groundwater monitoring event was conducted during June 2002 and included sampling of six groundwater monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-7, and MW-9). Field work for the 2002 third quarter groundwater monitoring event is scheduled for September and will include sampling of eight groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8 and MW-9). A work plan for the installation of two additional groundwater monitoring wells will be included in the forthcoming 2002 Second Quarter Groundwater Monitoring Report.

ACEHD will be notified of upcoming field activities. Should you have any questions or comments, please do not hesitate to contact us.

Respectfully Submitted,

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Should you have any questions or comments, please do not hesitate to contact us.

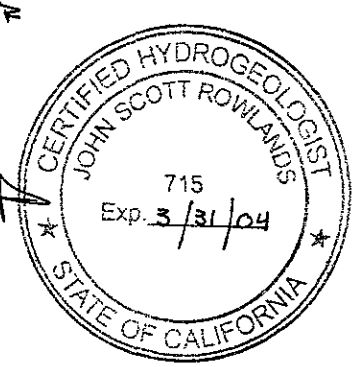
Respectfully Submitted,

URS CORPORATION

for

Joseph R. Liles
Staff Geologist

J.S. Rowlands, R.G., C.HG.
Project Manager



9.0 REFERENCES

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Muir, Kenneth S., 1993. *Geologic Framework of the East Bay Plain Groundwater Basin, Alameda, California. Prepared for the Alameda County Flood Control and Water Conservation District*, August 1993.

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The IT Group, 2001. *First Quarter 2001 Groundwater Monitoring*, Sears Auto Center #1039, 1901- 1911 Telegraph Avenue, Oakland, California, July 8.

The IT Group, 2001. *Second Quarter 2001 Groundwater Monitoring*, Sears Auto Center #1039, 1901- 1911 Telegraph Avenue, Oakland, California, January 8.

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TABLES

Table 1
2002 1st Quarter Groundwater Levels and Parameters
Sears Retail Center Store No. 1039
Oakland, California

Monitoring Well No.	Date Collected	Notes	Sample Date	GROUNDWATER LEVELS				GROUNDWATER SAMPLING FIELD PARAMETERS					
				Product Thickness (ft)	Depth to Groundwater (feet bgs)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temp. (Celsius)	pH	Cond (µS/cm)	O.R.P. (mV)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-1	3/28/2002	--	3/28/2002	NA	14.52	94.34	79.82	22.09	6.37	965.00	295.5	8.7	1.60
MW-2	3/27/2002	--	3/27/2002	NA	14.41	93.95	79.54	21.9	6.46	1701.00	0.0	0.0	6.78
MW-3	3/27/2002	4	3/27/2002	NA	16.50	96.15	79.65	NA	NA	NA	NA	NA	NA
MW-4	3/27/2002	--	3/27/2002	NA	13.22	92.01	78.79	21.45	6.65	1910.00	0.0	0.0	6.00
MW-5	3/27/2002	--	3/27/2002	NA	12.43	92.09	79.66	22.15	6.81	1907.00	0.0	19.0	6.12
MW-6	3/27/2002	4	3/27/2002	NA	14.09	92.16	78.07	NA	NA	NA	NA	NA	NA
MW-7	3/27/2002	--	3/27/2002	NA	15.74	93.80	78.06	23.78	6.54	1222.00	0.0	2.0	6.97
MW-8	3/27/2002	4	3/27/2002	NA	16.87	94.49	77.62	NA	NA	NA	NA	NA	NA
MW-9	3/27/2002	--	3/27/2002	NA	15.61	92.54	76.93	23.49	6.64	924.00	6.4	30.5	6.29

Notes

MSL - Mean Sea Level
BGS - Below ground surface
Groundwater Elevation reference to MSL
Groundwater Elevation = Top of casing elevation - Depth to Water
1 Sheen observed on water surface
2 Petroleum odor in groundwater
3 Well casing damaged
4 Well not sampled
SP - Separate phase product in well
NA - Not analyzed/Not available

µS/cm - microSiemens per centimeter
mV - millivolt
mg/L - milligrams per liter
NTU - nephelometric turbidity units

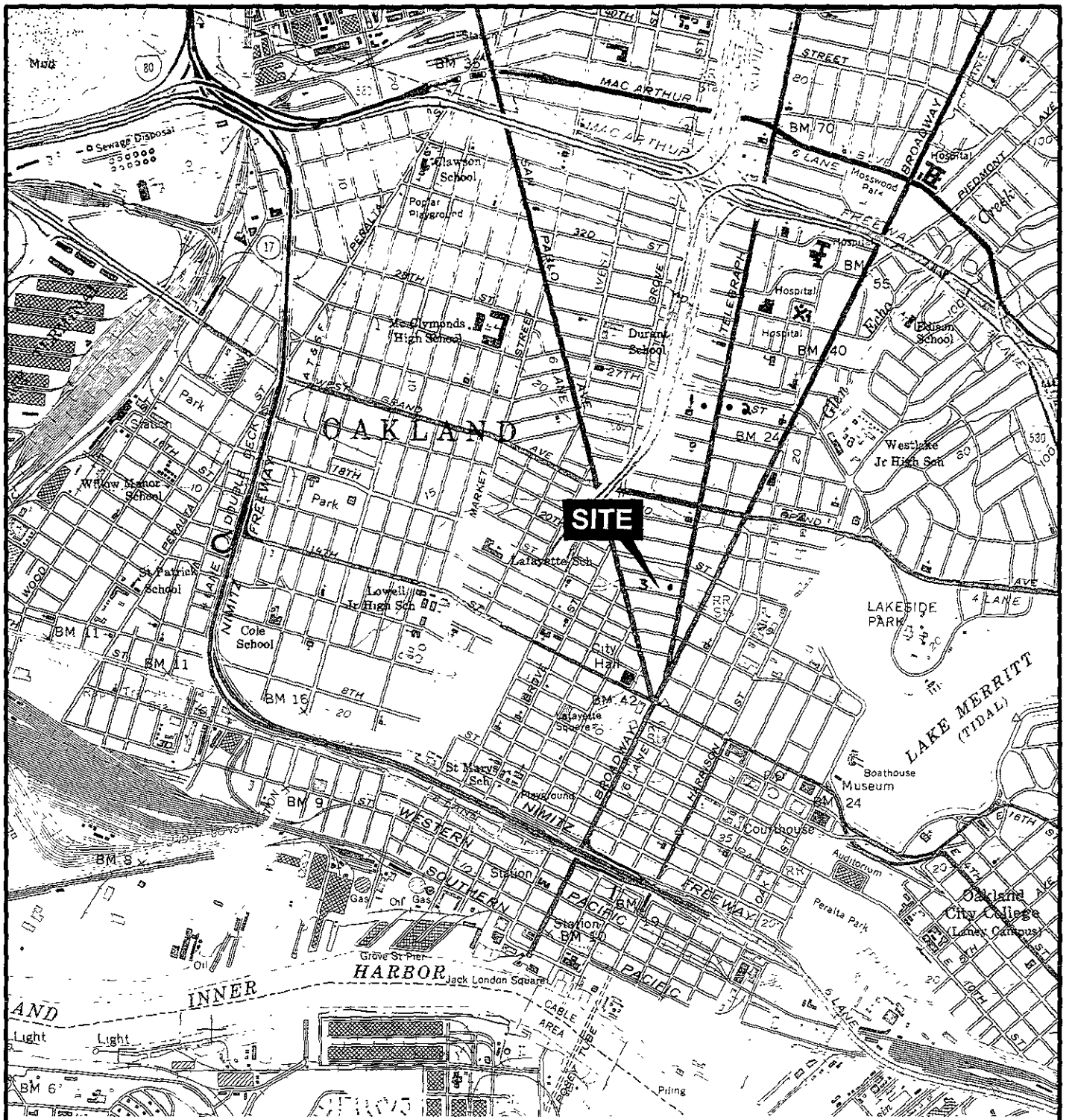
Table 2
2002 1st Quarter Groundwater Analytical Results
Sears Retail Center Store No. 1039
Oakland, California

Monitoring Well No.	Sample Date	Notes	LABORATORY ANALYTICAL RESULTS													
			TPH-Range			Volatile Organics by GC/MS 8260B										
			Gasoline (µg/L)	Diesel (µg/L)	Motor Oil (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	PCE (µg/L)	TCE (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)
MW-1	3/28/2002	--	< 50	77	< 500	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	24	1.1	< 0.50	< 0.50	< 0.50
MW-2	3/27/2002	--	2000	< 50	< 500	610	< 0.50	19	14	< 5.0	< 0.50	5.1	8.9	< 0.50	< 0.50
MW-3	3/27/2002	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	3/27/2002	--	< 50	< 50	< 500	1.4	< 0.50	< 0.50	< 1.0	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-5	3/27/2002	--	81	70	< 500	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-6	3/27/2002	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	3/27/2002	--	34000	570	< 500	6400	< 50	230	370	< 500	< 50	< 50	< 50	< 50	< 50
MW-7	3/27/2002	1	27000	740	< 500	6500	< 50	280	500	< 500	< 50	< 50	< 50	< 50	< 50
MW-8	3/27/2002	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	3/27/2002	--	< 50	< 50	< 500	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	32	10	17	0.73	< 0.50

Notes

TPH - Total Petroleum Hydrocarbons
B T E X - Benzene, Toluene, Ethylbenzene, Total Xylenes
MTBE - Methyl tertiary-butyl Ether
PCE - Tetrachloroethane
TCE - Trichloroethene
1,2-DCA - 1,2-Dichloroethane
cis-1,2-DCE - CIS-1,2-Dichloroethene
1,1-DCE - 1,1 Dichloroethene
1 Duplicate sample
2 Petroleum odor in groundwater
3 Well casing is damaged
4 Well not Sampled
J - Bunker-C detections were qualitated against the diesel standard and flagged as estimated concentration
< - Analyte not detected above indicated method detection limit
NA Not analyzed/Not available
SP Separate Phase Product

FIGURES



REFERENCE: USGS 7.5 Minute Series Oakland West, CA Quad, 1959, Photorevised 1980

TPHO
1-2633 TELEGRAPH HEATING OIL
2-2600 " GASOLINE
3-1901-1911 " SOLVENT

TPHG
TPHd
NO SOLVENT

TPHG, BTEX
Cl SOLVENT

FIGURE 1

VICINITY MAP

SEARS AUTO CENTER #1039
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
For Sears, Roebuck & Co.

N

0 1/2 1

Scale in Miles

URS

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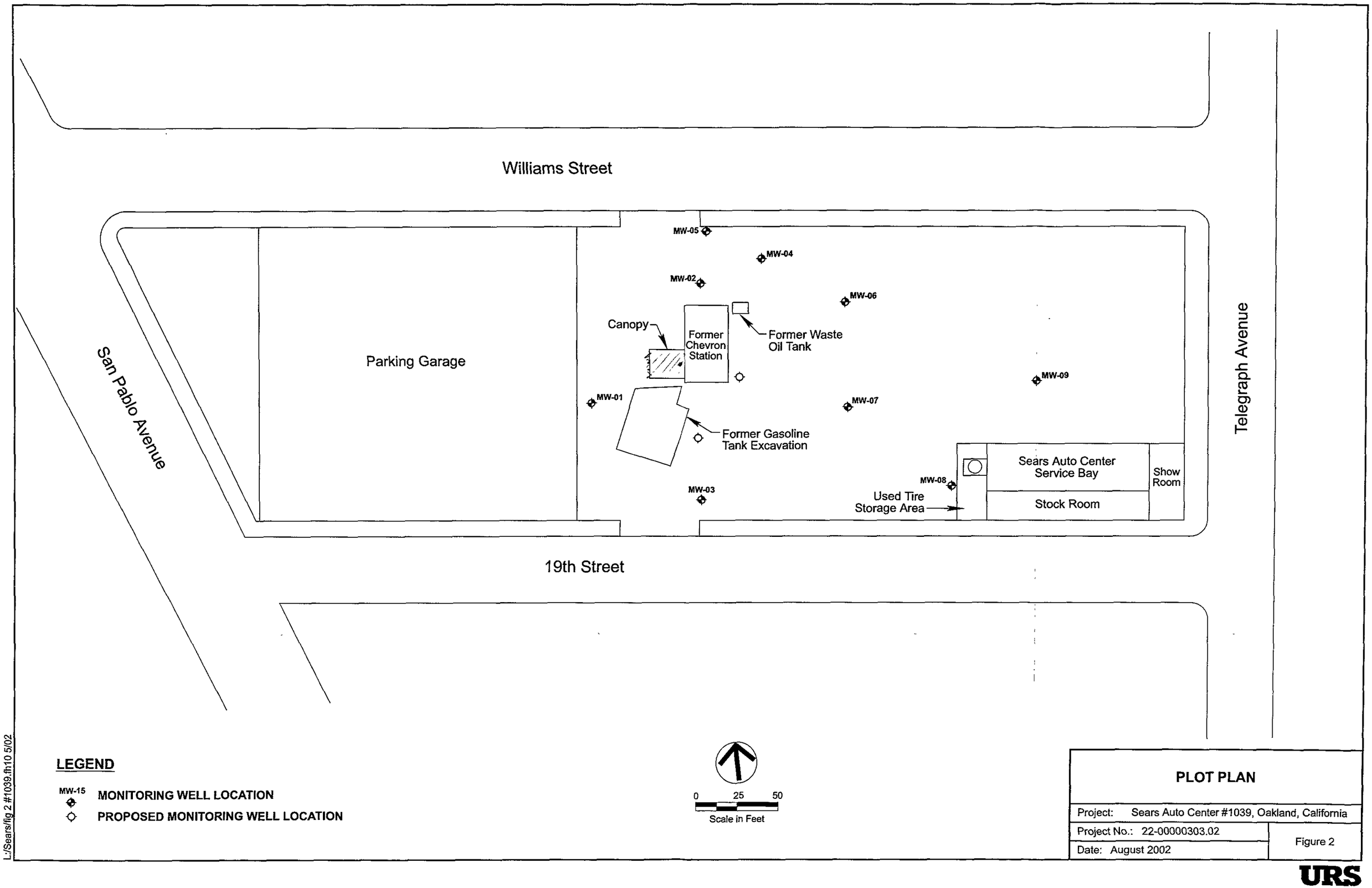
Williams Street
San Pablo Avenue
Parking Garage
MW-05
MW-04
MW-02
MW-06
Canopy
Former Chevron Station
Former Waste Oil Tank
MW-09
MW-01
MW-07
Former Gasoline Tank Excavation
Telegraph Avenue
Sears Auto Center Service Bay
Show Room
MW-08
Used Tire Storage Area
Stock Room
MW-03
19th Street
LEGEND
MW-15
MONITORING WELL LOCATION
PROPOSED MONITORING WELL LOCATION
0
25
50
Scale in Feet
PLOT PLAN
Project: Sears Auto Center #1039, Oakland, California
Project No.: 22-00000303.02
Date: August 2002
Figure 2
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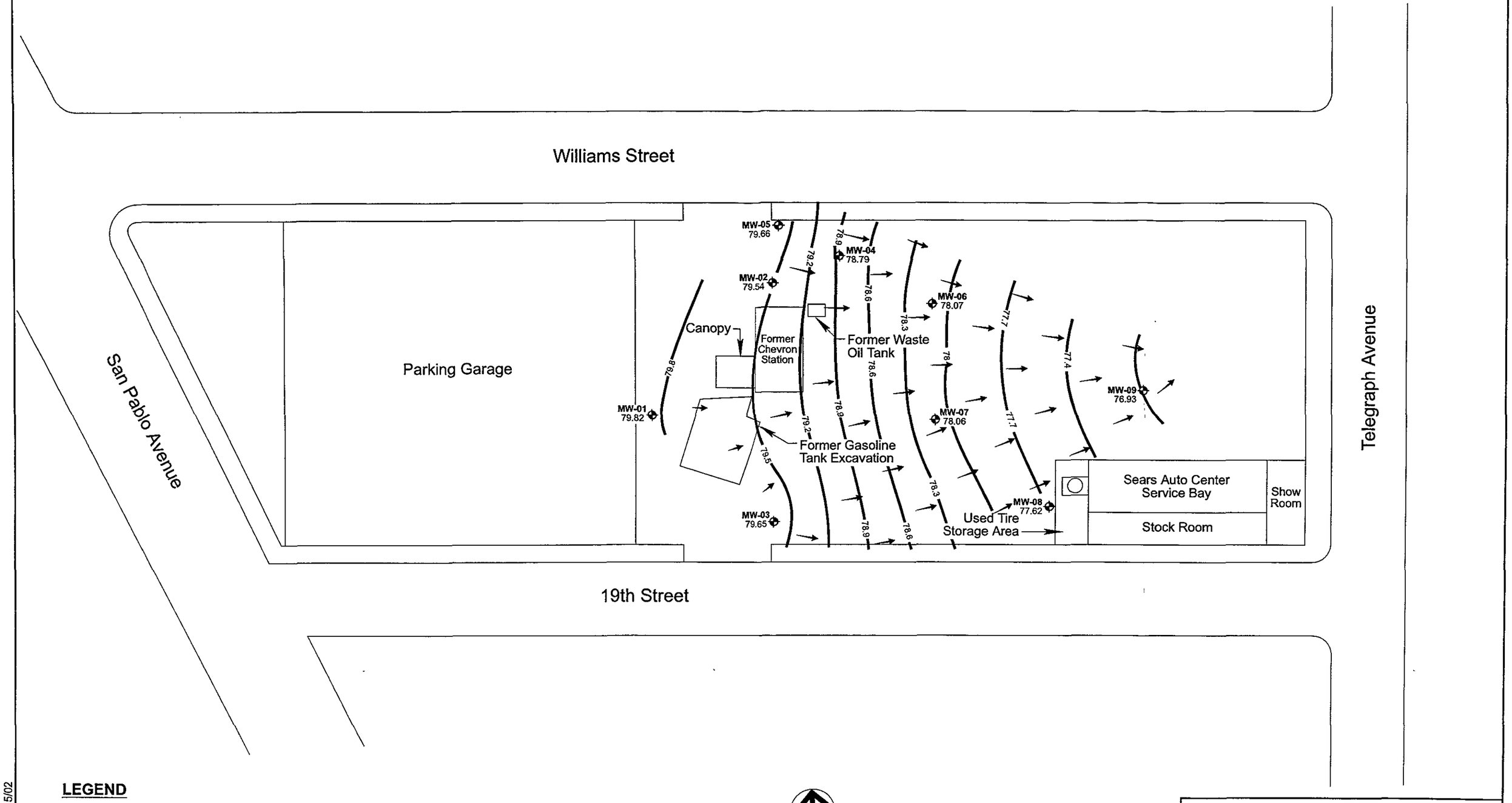

GROUNDWATER GRADIENT MAP (MARCH 2002)

Project:	Sears Auto Center #1039, Oakland, California
Project No.:	22-00000303.02
Date:	August 2002

Figure 3

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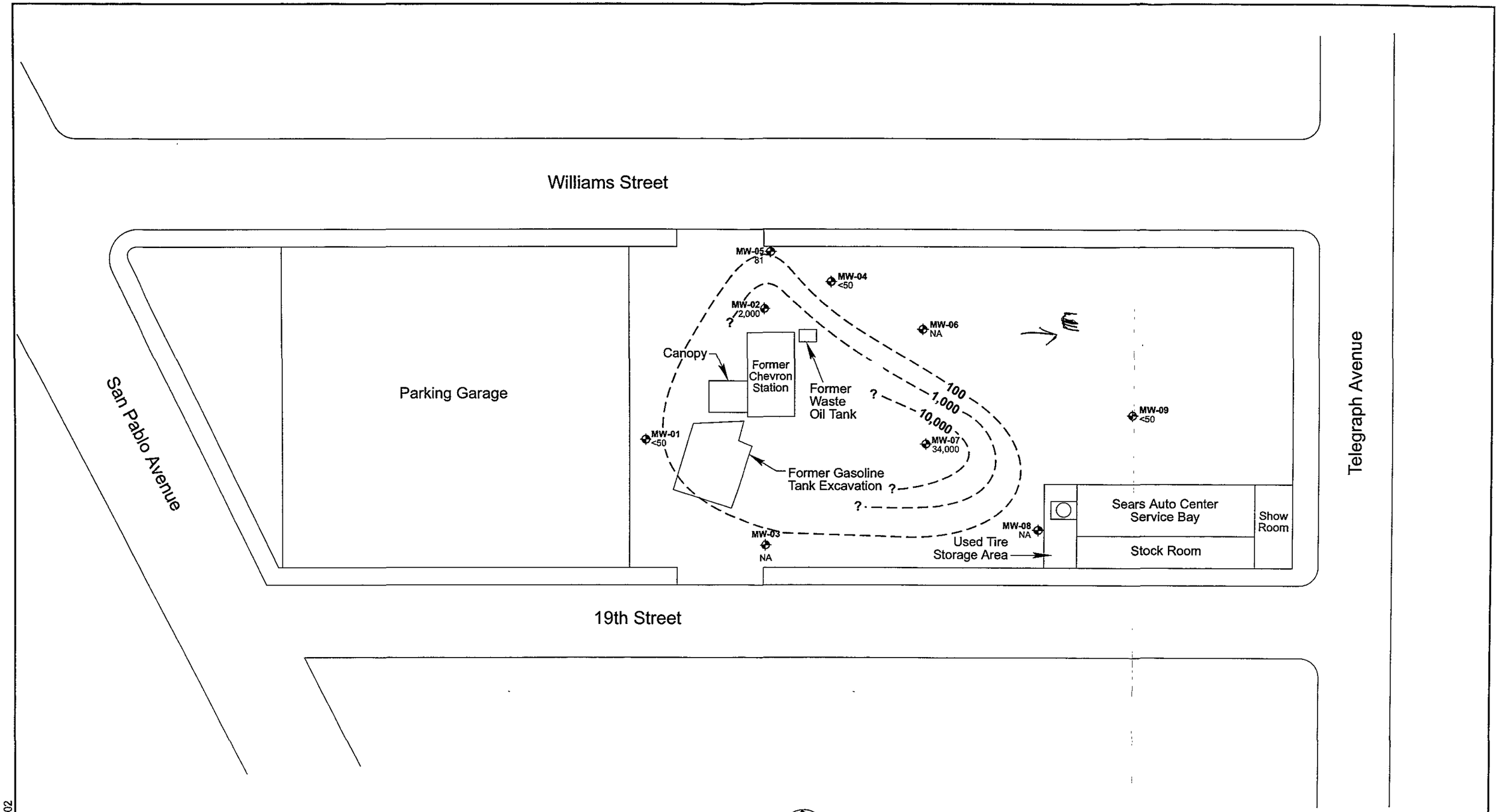

LEGEND

MW-15
34,000 **MONITORING WELL LOCATION WITH TPHg CONCENTRATION IN µg/L**

1.0 **TPHg CONCENTRATION**

0 25 50
Scale in Feet

TPHg ISOCONCENTRATION CONTOUR PLOT PLAN MAP (MARCH 2002)

Project: Sears Auto Center #1039, Oakland, California

Project No.: 22-00000303.02

Date: August 2002

Figure 4

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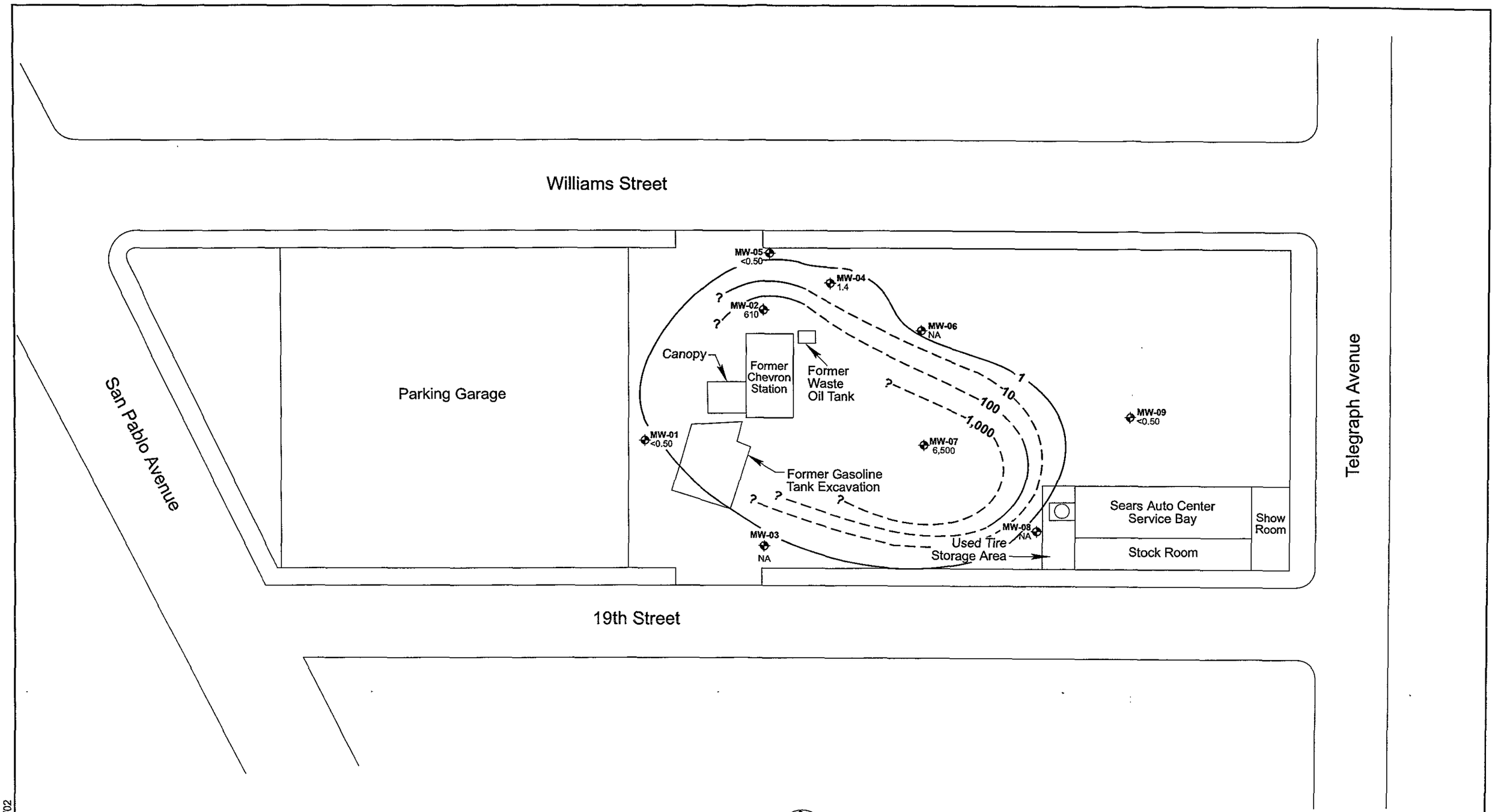

LEGEND

MW-15
6,500 — MONITORING WELL LOCATION WITH BENZENE CONCENTRATION IN µg/L

—1.0— BENZENE CONCENTRATION

0 25 50
Scale in Feet

BENZENE ISOCONCENTRATION CONTOUR MAP (MARCH 2002)

Project: Sears Auto Center #1039, Oakland, California

Project No.: 22-00000303.02

Date: August 2002

Figure 5

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APPENDIX A

HISTORICAL GROUNDWATER MONITORING RESULTS

Appendix A
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 1 of 5)

						GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS													
Well No.	Sample No.	Sample Matrix	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B	T	E	X	MTBE	$TPH_{gasoline}$	TPHdiesel	OIL and GREASE	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE
MW-1	MW-1	--	5	10/1/1995	Oct-95	--	--	94.34	--	µg/L	ND	ND	ND	ND	--	< 50	--	--	9.9	ND	ND	--	--
MW-1	MW-1	--	5	1/1/1996	Jan-96	--	--	94.34	--	µg/L	ND	ND	ND	ND	--	< 50	--	--	9.9	14	ND	--	--
MW-1	MW-1	AQ	5	6/12/1996	Jun-96	16.21	0.00	94.34	78.13	µg/L	< 0.5	1.4	< 0.5	< 2	--	< 50	--	--	12	<0.5	< 0.5	--	--
MW-1	MW-1	AQ	5	9/5/1996	Sep-96	16.89	0.00	94.34	77.45	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	12	<0.5	< 0.5	--	--
MW-1	MW-1	AQ	5	12/3/1996	Dec-96	17.07	0.00	94.34	77.27	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/27/1997	Feb-97	16.55	0.00	94.34	78.79	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	31	1.3	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	6/10/1997	Jun-97	16.46	0.00	94.34	77.88	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	19	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	8/27/1997	Aug-97	16.97	0.00	94.34	77.37	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	16	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	11/26/1997	Nov-97	17.24	0.00	94.34	77.10	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	17	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/11/1998	Feb-98	16.07	0.00	94.34	78.27	µg/L	< 0.5	< 0.5	< 0.5	< 3	< 5.0	< 50	--	--	20	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	5/19/1998	May-98	15.43	0.00	94.34	78.91	µg/L	< 0.5	< 0.5	< 0.5	< 4	< 5.0	< 50	--	--	14	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	8/10/1998	Aug-98	15.98	0.00	94.34	78.36	µg/L	< 0.5	< 0.5	< 0.5	< 5	< 2.5	< 50	--	--	14	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	11/9/1998	Nov-98	16.63	0.00	94.34	77.71	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.1	< 50	--	--	16	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/8/1999	Feb-99	--	--	94.34	--	µg/L	< 0.5	< 0.5	< 0.5	< 5	< 2.5	< 50	--	--	< 0.5	20	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/11/1999	Feb-99	16.65	0.00	94.34	77.79	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	MW-1	AQ	5	5/10/1999	May-99	15.50	0.00	94.34	78.84	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	14	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	8/9/1999	Aug-99	15.82	0.00	94.34	78.52	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	14	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	11/5/1999	Nov-99	16.29	0.00	94.34	78.05	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	20	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/1/2000	Feb-00	16.02	0.00	94.34	78.32	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	24	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	5/2/2000	May-00	14.48	0.00	94.34	79.86	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	23	<0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	8/1/2000	Aug-00	15.20	0.00	94.34	79.14	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	21	0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	11/6/2000	Nov-00	15.63	0.00	94.34	78.71	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	31	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	2/16/2001	Feb-01	15.45	0.00	94.34	78.89	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	32	0.7	< 0.5	< 0.5	< 0.5
MW-1	MW-1	AQ	5	4/27/2001	Apr-01	14.86	0.00	94.34	79.48	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	33	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	--	5	7/24/2001	Jul-01	--	0.00	94.34	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	MW-1	--	2	3/28/2002	Mar-02	14.52	0.00	94.34	79.82	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 50	77	< 500	33	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	MW-1	--	2	6/5/2002	Jun-02	14.72	0.00	94.34	79.62	µg/L	<	<	<	<	<	<	<	<	<	<	<	<	<
MW-2	MW-2	--	5	10/1/1995	Oct-95	--	--	93.95	--	µg/L	1,200	54	11	5.9	--	2,900	--	--	ND	30	260	--	--
MW-2	MW-2	--	5	1/1/1996	Jan-96	--	--	93.95	--	µg/L	1,100	11.0	100	6.9	--	700	--	--	ND	38	270	--	--
MW-2	MW-2	AQ	5	6/12/1996	Jun-96	16.01	0.00	93.95	77.94	µg/L	890	7.0	56	10	--	3,600	--	--	3	30	160	--	--
MW-2	MW-2	AQ	5	9/5/1996	Sep-96	16.68	0.00	93.95	77.27	µg/L	350	2.0	17	10	< 5.0	2,300	--	--	< 0.5	29	55	1.8	55
MW-2	MW-2	AQ	5	12/3/1996	Dec-96	16.20	0.00	93.95	77.75	µg/L	230	2.4	7.8	7	30	1,700	--	--	< 0.5	26	86	7	< 0.5
MW-2	MW-2	AQ	5	2/27/1997	Feb-97	14.46	0.00	93.95	79.49	µg/L	210	2.2	6	3	12	1,800	--	--	3	25	93	< 0.5	< 0.5
MW-2	MW-2	AQ	5	6/10/1997	Jun-97	14.00	0.00	93.95	79.95	µg/L	310	3.0	6	<10	< 30	3.5	--	--	1	19	47	4.9	< 0.5
MW-2	MW-2	AQ	5	8/27/1997	Aug-97	16.55	0.00	93.95	77.40	µg/L	51	< 0.5	1.4	< 2	11	450	--	--	0.5	16	29	4.2	< 0.5
MW-2	MW-2	AQ	5	11/26/1997	Nov-97	16.86	0.00	93.95	77.09	µg/L	380	5.0	9	12	< 30	1,200	--	--	1	13	39	3.5	< 0.5
MW-2	MW-2	AQ	5	2/11/1998	Feb-98	15.86	0.00	93.95	78.10	µg/L	310	3.0	2.8	8	30	1,100	--	--	< 0.5	16	< 0.5	2.6	< 0.5
MW-2	MW-2	AQ	5	5/19/1998	May-98	16.32	0.00	93.95	77.63	µg/L	320	2.1	9.9	8	30	1,200	--	--	1	14	47	1.6	< 0.5
MW-2	MW-2	AQ	5	8/10/1998	Aug-98	15.82	0.00	93.95	78.13	µg/L	57	1.0	1.2	0.9	30	300	--	--	0.5	11	30	2.4	< 0.5
MW-2	MW-2	AQ	5	11/9/1998	Nov-98	16.53	0.00	93.95	77.42	µg/L	53	< 0.5	1.7	< 0.5	< 7.5	440	--	--	0.5	12	25	2.5	< 0.5
MW-2	MW-2	AQ	5	2/8/1999	Feb-99	--	--	93.95	--	µg/L	240	2.3	8.8	5	11	450	--	--	0.5	11	36	3.4	< 0.5
MW-2	MW-2	AQ	5	2/11/2002	Feb-99	16.38	0.00	93.95	77.57	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	MW-2	AQ	5	5/10/1999	May-99	15.19	0.00	93.95	78.76	µg/L	260	2.2	7.9	4.2	24/<2.0	260	--	--	0.5	7	24	3.4	< 0.5
MW-2	MW-2	AQ	5	8/9/1999	Aug-99	16.09	0.00	93.95	77.86	µg/L	45	0.79	0.54	< 0.5	14/<2.0	350	--	--	< 0.5	11	35	2.6	< 0.5
MW-2	MW-2	AQ	5	11/5/1999	Nov-99	16.20	0.00	93.95	77.75	µg/L	63	0.68	0.65	1.1	13/<2.0	328	--	--	< 0.5	13	41	1.3	< 0.5
MW-2	MW-2	AQ	5	2/1/2000	Feb-00	16.00	0.00	93.95	77.95	µg/L	610/390*	4.4/6.3*	63/65*	5.9/7.1*	< 0.5	1200	--	--	< 0.5	16	75	2	< 0.5
MW-2	MW-2	AQ	5	5/2/2000	May-00	14.90	0.00	93.95	79.05	µg/L	540/500*	3.7/<5.0*	15/14*	14/13*	< 0.5	930	--	--	< 0.5	24	92	4.5	< 0.5
MW-2	MW-2	AQ	5	8/1/2000	Aug-00	15.25	0.00	93.95	78.70	µg/L	430	1.2	4.8	3.6	< 0.5	410	--	--	< 0.5	30	23	2.5	< 0.5
MW-2	MW-2	AQ	5	11/6/2000	Nov-00	15.45	0.00	93.95	78.50	µg/L	150/130*	<0.5/<0.5*	4.1/3.7*	3.4/3.0*	20	450	--	--	< 0.5	30	28	3.6	< 0.5
MW-2	MW-2	AQ	5	2/16/2001	Feb-01	15.50	0.00	93.95	78.45	µg/L	360/390*	4.4/4.1*	19/17*	5.8/5.3*	< 0.5	840	--	--	< 0.5	31	39	2.5	< 0.5
MW-2	MW-2	AQ	5	4/27/2001	Apr-01	14.83	0.00	93.95	79.12	µg/L	450/530	3.3/3.5	8.4/10	6.9/7.5	< 0.5	770	--	--	< 0.5	44	51	4.8	< 0.5
MW-2	MW-2	AQ	5	7/24/2001	Jul-01	15.18	0.00	93.95	78.77	µg/L	230/220	1.7/1.6	8.2/8.1	6.5/6.6	< 0.5	450	--	--	< 0.5	32	35	3.8	< 0.5
MW-2	MW-2	AQ	2	3/27/2002	Mar-02	14.41	0.00	93.95	79.54	µg/L	460	< 0.50	19	14	< 5.0	450	< 50	< 500	< 0.50	34	39	< 0.50	< 0.50
MW-2	MW-2	AQ	2	6/5/2002	Jun-02	14.41	0.00	93.95	79.54	µg/L	<	<	<	<	<	<	<	<	<	<	<	<	<

Appendix A
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 2 of 5)

Well No.	Sample No.	Sample Matrix	Notes	Sample Date	Sample Period	GROUNDWATER LEVELS Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	LABORATORY ANALYTICAL RESULTS B	T	E	X	MTBE	TPH$_{gasoline}$	TPHdiesel	OIL and GREASE	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE
MW-3	MW-3	--	5	10/1/1995	Oct-95	--	--	96.15	--	µg/L	ND		ND	ND	--	<50	--	--	ND	ND	ND	--	--
MW-3	MW-3	--	5	1/1/1996	Jan-96	--	--	96.15	--	µg/L	ND	ND	ND	ND	--	ND	--	--	ND	ND	ND	--	--
MW-3	MW-3	AQ	5	6/12/1996	Jun-96	17.56	0.00	96.15	78.59	µg/L	< 0.5	< 0.5	< 0.5	< 2	--	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	AQ	5	9/5/1996	Sep-96	18.32	0.00	96.15	77.83	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	AQ	5	12/3/1996	Dec-96	18.57	0.00	96.15	77.58	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	2.3	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/27/1997	Feb-97	17.43	0.00	96.15	78.72	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	6.3	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	6/10/1997	Jun-97	18.12	0.00	96.15	78.03	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	5.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	8/27/1997	Aug-97	18.47	0.00	96.15	77.68	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	5.8	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	11/26/1997	Nov-97	18.70	0.00	96.15	77.45	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/11/1998	Feb-98	17.76	0.00	96.15	78.39	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	5/19/1998	May-98	16.99	0.00	96.15	79.16	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5.0	< 50	--	--	5.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	8/10/1998	Aug-98	17.51	0.00	96.15	78.64	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	11/9/1998	Nov-98	18.07	0.00	96.15	78.08	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	5.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/8/1999	Feb-99	--	--	96.15	--	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	6.4	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/11/1999	Feb-99	18.07	0.00	96.15	78.08	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	MW-3	AQ	5	5/10/1999	May-99	17.04	0.00	96.15	79.11	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	5.1	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	8/9/1999	Aug-99	17.77	0.00	96.15	78.38	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	4.8	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	11/5/1999	Nov-99	18.00	0.00	96.15	78.15	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	7.2	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/1/2000	Feb-00	17.95	0.00	96.15	78.20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	6.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	5/2/2000	May-00	16.83	0.00	96.15	79.32	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	6.4	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	8/1/2000	Aug-00	17.13	0.00	96.15	79.02	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	5.6	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	11/6/2000	Nov-00	17.54	0.00	96.15	78.61	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	2/16/2001	Feb-01	17.42	0.00	96.15	78.73	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	8.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	4/27/2001	Apr-01	16.80	0.00	96.15	79.35	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	8.1	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	5	7/24/2001	Jul-01	17.08	0.00	96.15	79.07	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	11	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	MW-3	AQ	4	3/27/2002	Mar-02	16.50	0.00	96.15	79.65	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	MW-3	AQ	2	6/5/2002	Jun-02	16.53	0.00	96.15	79.62	µg/L													
MW-4	MW-4	--	5	10/1/1995	Oct-95	--	0.00	92.01	--	µg/L	4.1	ND	ND	ND	--	<50	--	--	ND	ND	ND	--	--
MW-4	MW-4	--	5	1/1/1996	Jan-96	--	0.00	92.01	--	µg/L	5.8	ND	ND	ND	--	<50	--	--	ND	ND	ND	--	--
MW-4	MW-4	AQ	5	6/12/1996	Jun-96	14.21	0.00	92.01	77.80	µg/L	11	< 0.5	< 0.5	< 2	--	320	--	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	AQ	5	9/5/1996	Sep-96	14.63	0.00	92.01	77.38	µg/L	5.6	< 0.5	< 0.5	< 2	--	70	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	12/3/1996	Dec-96	13.99	0.00	92.01	78.02	µg/L	11	< 0.5	< 0.5	< 2	15	270	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/27/1997	Feb-97	12.44	0.00	92.01	79.57	µg/L	3.1	< 0.5	< 0.5	< 2	< 5.0	190	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	6/10/1997	Jun-97	14.20	0.00	92.01	77.81	µg/L	31	< 0.5	< 0.5	< 2	< 5.0	200	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	8/27/1997	Aug-97	14.62	0.00	92.01	77.39	µg/L	9.6	< 0.5	< 0.5	< 2	< 5.0	170	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	11/26/1997	Nov-97	15.00	0.00	92.01	77.01	µg/L	6.7	< 0.5	< 0.5	< 2	< 5.0	100	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/11/1998	Feb-98	14.10	0.00	92.01	77.91	µg/L	8.4	< 0.5	< 0.5	< 2	< 5.0	110	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	5/19/1998	May-98	13.57	0.00	92.01	78.44	µg/L	4.6	< 0.5	< 0.5	< 2	7	110	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	8/10/1998	Aug-98	14.10	0.00	92.01	77.91	µg/L	4.1	< 0.5	< 0.5	< 0.5	11	110	--	5,600	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	11/9/1998	Nov-98	14.75	0.00	92.01	77.26	µg/L	7.5	< 0.5	< 0.5	< 0.5	< 2.5	130	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/8/1999	Feb-99	--	--	92.01	--	µg/L	6.8	< 0.5	< 0.5	< 0.5	< 2.5	60	--	500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/11/1999	Feb-99	14.57	0.00	92.01	77.44	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	MW-4	AQ	5	5/10/1999	May-99	13.46	0.00	92.01	78.55	µg/L	1.3	< 0.5	< 0.5	< 0.5	< 2.0	61	--	< 5000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	8/9/1999	Aug-99	14.15	0.00	92.01	77.86	µg/L	7.9	< 0.5	< 0.5	< 0.5	3.9/<2.0*	94	--	1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	11/5/1999	Nov-99	14.62	0.00	92.01	77.39	µg/L	9.0	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/1/2000	Feb-00	14.50	0.00	92.01	77.51	µg/L	38	< 0.5	< 0.5	< 0.5	< 0.5	150	--	800	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	5/2/2000	May-00	13.40	0.00	92.01	78.61	µg/L	8.5	< 0.5	< 0.5	< 0.5	< 0.5	55	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	8/1/2000	Aug-00	13.70	0.00	92.01	78.31	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	<50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	11/6/2000	Nov-00	14.00	0.00	92.01	78.01	µg/L	22	< 0.5	< 0.5	< 0.5	< 0.5	88	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	2/16/2001	Feb-01	13.65	0.00	92.01	78.36	µg/L	16	< 0.5	< 0.5	< 0.5	< 0.5	55	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	4/27/2001	Apr-01	13.40	0.00	92.01	78.61	µg/L	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	5	7/24/2001	Jul-01	13.69	0.00	92.01	78.32	µg/L	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	AQ	2	3/27/2002	Mar-02	13.22	0.00	92.01	78.79	µg/L	1.4	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-4	MW-4	AQ	2	6/5/2002	Jun-02	13.00	0.00	92.01	79.01	µg/L		<	<	<	<	<	<	<	<	<	<	<	<

Appendix A
Historical Groundwater Monitoring Results
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						GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS												
Well No	Sample No.	Sample Matrix	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B	T	E	X	MTBE	$TPH_{gasoline}$	TPHdiesel	OIL and GREASE	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE
MW-5	MW-5	--	5	10/1/1995	Oct-95	--	0.00	92.09	--	µg/L	86	ND	ND	ND	--	260	--	--	ND	ND	ND	--	--
MW-5	MW-5	--	5	1/1/1996	Jan-96	--	0.00	92.09	--	µg/L	160	3.6	ND	ND	--	180	--	--	ND	ND	ND	--	--
MW-5	MW-5	AQ	5	6/12/1996	Jun-96	14.13	0.00	92.09	77.96	µg/L	54	1.1	< 0.5	< 2	--	260	--	--	< 0.5	< 0.5	< 0.5	--	--
MW-5	MW-5	AQ	5	9/5/1996	Sep-96	14.77	0.00	92.09	77.32	µg/L	22	1.0	< 0.5	< 2	< 5.0	160	--	--	< 0.5	< 0.5	< 0.5	--	--
MW-5	MW-5	AQ	5	12/3/1996	Dec-96	13.99	0.00	92.09	78.10	µg/L	18	0.6	< 0.5	< 2	6	170	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/27/1997	Feb-97	12.08	0.00	92.09	80.01	µg/L	74	2.0	< 0.5	< 2	< 5	230	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	6/10/1997	Jun-97	16.00	0.00	92.09	76.09	µg/L	490	19.0	< 3.0	< 10	< 30	1,200	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	8/27/1997	Aug-97	14.55	0.00	92.09	77.54	µg/L	100	4.6	< 0.5	< 2	< 5.0	340	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	11/26/1997	Nov-97	14.95	0.00	92.09	77.14	µg/L	78	4.5	0.6	< 2	< 5.0	400	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/13/1998	Feb-98	13.97	0.00	92.09	78.12	µg/L	62	2.9	< 0.5	< 2	< 5.0	320	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	5/19/1998	May-98	13.52	0.00	92.09	78.57	µg/L	97	2.6	< 0.5	< 2	< 5.0	330	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	8/10/1998	Aug-98	13.97	0.00	92.09	78.12	µg/L	48	1.9	< 0.5	< 0.5	11	190	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	11/9/1998	Nov-98	14.67	0.00	92.09	77.42	µg/L	3.8	< 0.5	< 0.5	< 0.5	< 2.5	81	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/8/1999	Feb-99	--	--	92.09	--	µg/L	3	< 0.5	< 0.5	< 0.5	3.8	82	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/11/1999	Feb-99	14.50	0.00	92.09	77.59	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	MW-5	AQ	5	5/10/1999	May-99	13.23	0.00	92.09	78.86	µg/L	8.8	< 0.5	< 0.5	< 0.5	2.6/<2.0*	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	8/9/1999	Aug-99	13.90	0.00	92.09	78.19	µg/L	25	< 0.5	< 0.5	< 0.5	5.6/<2.0*	150	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	11/5/1999	Nov-99	14.40	0.00	92.09	77.69	µg/L	20	< 0.5	< 0.5	0.76	4.3/<2.0*	160	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/1/2000	Feb-00	14.15	0.00	92.09	77.94	µg/L	42	1.2	< 0.5	< 0.5	< 0.5	180	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	5/2/2000	May-00	13.10	0.00	92.09	78.99	µg/L	12	0.7	< 0.5	< 0.5	< 0.5	120	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	8/1/2000	Aug-00	13.52	0.00	92.09	78.57	µg/L	11	< 0.5	< 0.5	< 0.5	< 0.5	69	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	11/6/2000	Nov-00	13.93	0.00	92.09	78.16	µg/L	7.0	< 0.5	< 0.5	< 0.5	< 0.5	72	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	2/16/2001	Feb-01	13.75	0.00	92.09	78.34	µg/L	1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	4/27/2001	Apr-01	12.95	0.00	92.09	79.14	µg/L	3.1	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	5	7/24/2001	Jul-01	13.46	0.00	92.09	78.63	µg/L	3.8	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	AQ	2	3/27/2002	Mar-02	12.43	0.00	92.09	79.66	µg/L	< 0.50	< 0.50	< 0.5	< 1.0	< 5.0	81	70	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-5	MW-5	AQ	2	6/5/2002	Jun-02	12.68	0.00	92.09	79.41	µg/L	<	<	<	<	<			<	<	<	<	<	<
MW-6	MW-6	--	5	10/1/1995	Oct-95	--	0.00	92.16	--	µg/L	ND	ND	ND	ND	--	< 50	--	--	6.2	11	33	--	--
MW-6	MW-6	--	5	1/1/1996	Jan-96	--	0.00	92.16	--	µg/L	ND	ND	ND	ND	--	< 50	--	--	3.3	12	53	--	--
MW-6	MW-6	AQ	5	6/12/1996	Jun-96	14.99	0.00	92.16	77.17	µg/L	< 0.5	< 0.5	< 0.5	< 2	--	< 50	--	< 0.5	3.8	5	7.9	--	--
MW-6	MW-6	AQ	5	9/5/1996	Sep-96	15.50	0.00	92.16	76.66	µg/L	0.8	< 0.5	< 0.5	< 2	< 5	< 50	--	< 0.5	5.4	5.2	7.5	--	--
MW-6	MW-6	AQ	5	12/3/1996	Dec-96	15.07	0.00	92.16	77.09	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5	< 50	--	< 0.5	8.9	6.6	9.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/27/1997	Feb-97	14.14	0.00	92.16	78.02	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5	< 50	--	< 500	7.5	8.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	6/10/1997	Jun-97	15.30	0.00	92.16	76.86	µg/L	0.9	< 0.5	< 0.5	< 2	< 5	< 50	--	--	4	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	8/27/1997	Aug-97	15.42	0.00	92.16	76.74	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5	< 50	--	< 85	6.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	11/26/1997	Nov-97	15.70	0.00	92.16	76.46	µg/L	35	0.9	9.2	< 2	7.6	< 50	--	< 500	5.3	0.6	0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/13/1998	Feb-98	14.87	0.00	92.16	77.29	µg/L	< 0.5	< 0.5	< 0.5	< 2	< 5	< 50	--	< 500	0.7	<0.5	0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	5/19/1998	May-98	14.32	0.00	92.16	77.84	µg/L	0.6	< 0.5	< 0.5	< 2	< 5	< 50	--	< 500	0.6	<0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	8/10/1998	Aug-98	14.90	0.00	92.16	77.26	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 5000	0.5	0.56	1.3	< 0.5	< 0.5
MW-6	MW-6	AQ	5	11/9/1998	Nov-98	15.39	0.00	92.16	76.77	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 500	1.7	0.92	1.7	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/8/1999	Feb-99	--	--	92.16	--	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 500	0.86	< 0.5	1.2	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/11/1999	Feb-99	15.21	0.00	92.16	76.95	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	AQ	5	5/10/1999	May-99	14.12	0.00	92.16	78.04	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 5000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	8/9/1999	Aug-99	15.00	0.00	92.16	77.16	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	< 1000	0.52	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	11/5/1999	Nov-99	15.55	0.00	92.16	76.61	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50	--	--	0.89	0.89	1.2	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/1/2000	Feb-00	15.40	0.00	92.16	76.76	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	2.2	0.9	3.3	< 0.5	< 0.5
MW-6	MW-6	AQ	5	5/2/2000	May-00	14.55	0.00	92.16	77.61	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	2.6	0.8	1.3	< 0.5	< 0.5
MW-6	MW-6	AQ	5	8/1/2000	Aug-00	14.85	0.00	92.16	77.31	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	0.5	0.9	2.3	< 0.5	< 0.5
MW-6	MW-6	AQ	5	11/6/2000	Nov-00	15.10	0.00	92.16	77.06	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	0.9	0.9	3.5	< 0.5	< 0.5
MW-6	MW-6	AQ	5	2/16/2001	Feb-01	14.93	0.00	92.16	77.23	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	0.9	1.1	6.2	< 0.5	< 0.5
MW-6	MW-6	AQ	5	4/27/2001	Apr-01	14.40	0.00	92.16	77.76	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	0.7	0.7	3.9	< 0.5	< 0.5
MW-6	MW-6	AQ	5	7/24/2001	Jul-01	14.68	0.00	92.16	77.48	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	--	< 1000	0.6	1	4.8	< 0.5	< 0.5
MW-6	MW-6	AQ	4	3/27/2002	Mar-02	14.09	0.00	92.16	78.07	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	AQ	4	6/5/2002	Jun-02	14.26	0.00	92.16	77.90	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix A
Historical Groundwater Monitoring Results
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						GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS												
Well No.	Sample No	Sample Matrix	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B	T	E	X	MTBE	$TPH_{gasoline}$	TPHdiesel	OIL and GREASE	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE
MW-7	MW-7	--	5	10/1/1995	Oct-95	--	0.00	93.80	--	µg/L	ND	ND	ND	ND	--	< 50		--	5.3	3.5	8.3	--	--
MW-7	MW-7	--	5	1/1/1996	Jan-96	--	0.00	93.80	--	µg/L	ND	ND	ND	ND	--	< 50		--	9.3	4.8	5.7	--	--
MW-7	MW-7	AQ	5	6/12/1996	Jun-96	16.56	0.00	93.80	77.24	µg/L	0.6	< 0.5	< 0.5	< 2	--	< 50		--	6.1	3.4	2.9	--	--
MW-7	MW-7	AQ	5	9/5/1996	Sep-96	17.10	0.00	93.80	76.70	µg/L	1.2	< 0.5	< 0.5	< 2	< 5	< 50		--	8.3	4.2	5.9	--	--
MW-7	MW-7	AQ	5	12/3/1996	Dec-96	17.12	0.00	93.80	76.68	µg/L	850	< 5	< 5	30	< 5	120		< 0.5	4	4	75	< 3	< 3
MW-7	MW-7	AQ	5	2/27/1997	Feb-97	16.20	0.00	93.80	77.60	µg/L	1500	3.0	23	< 10	< 30	2,500		--	2	4	65	< 0.5	< 0.5
MW-7	MW-7	AQ	5	6/10/1997	Jun-97	17.00	0.00	93.80	76.80	µg/L	1700	< 5	59	< 20	< 50	3,200		--	2	4.2	85	< 0.5	< 0.5
MW-7	MW-7	AQ	5	8/27/1997	Aug-97	17.18	0.00	93.80	76.62	µg/L	1700	8.0	200	40	90	3,900		--	< 3	5	93	< 3	< 3
MW-7	MW-7	AQ	5	11/26/1997	Nov-97	17.40	0.00	93.80	76.40	µg/L	3,100	15.0	190	30	90	5,600		--	3	5.9	120	1	< 0.5
MW-7	MW-7	AQ	5	2/11/1998	Feb-98	16.65	0.00	93.80	77.15	µg/L	3,800	25.0	250	80	90	8,500		--	4	8.9	93	1.2	< 0.5
MW-7	MW-7	AQ	5	5/19/1998	May-98	15.96	0.00	93.80	77.84	µg/L	2,100	440.0	150	220	300	5,000		--	2	3.8	74	0.6	< 0.5
MW-7	MW-7	AQ	5	8/10/1998	Aug-98	16.48	0.00	93.80	77.32	µg/L	690	< 10	13	< 10	< 50	1,600		--	< 3	3.3	100	< 2.5	< 2.5
MW-7	MW-7	AQ	5	11/9/1998	Nov-98	16.98	0.00	93.80	76.82	µg/L	295	5.5	4.3	3.5	8.7	930		--	4.2	6.5	110	< 2.5	< 2.5
MW-7	MW-7	AQ	5	2/8/1999	Feb-99	--	--	93.80	--	µg/L	670	< 10	14	<10	< 50	1,500		--	6	3.4	74	< 1.2	< 1.2
MW-7	MW-7	AQ	5	2/11/1999	Feb-99	16.94	0.00	93.80	76.86	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	MW-7	AQ	5	5/10/1999	May-99	15.87	0.00	93.80	77.93	µg/L	1,800	16.0	81	130	63/<2.0*	2,800		--	1	2.6	65	0.63	< 0.5
MW-7	MW-7	AQ	5	8/9/1999	Aug-99	16.60	0.00	93.80	77.20	µg/L	570	5.1	28	30	300/6.5*	1,500		--	< 1	1.2	95	0.57	< 0.5
MW-7	MW-7	AQ	5	11/5/1999	Nov-99	17.01	0.00	93.80	76.79	µg/L	1,200	<5	61	25	150/11*	2,100		--	4	7.8	95	1.6	< 0.5
MW-7	MW-7	AQ	5	2/1/2000	Feb-00	17.00	0.00	93.80	76.80	µg/L	2,600	16.0	140	210	6.6	4,600		--	3	6	110	1.7	< 0.5
MW-7	MW-7	AQ	5	5/2/2000	May-00	16.00	0.00	93.80	77.80	µg/L	2,700	25	80	270	< 5.0	4,200		--	< 5.0	< 5.0	84	< 5.0	< 5.0
MW-7	MW-7	AQ	5	8/1/2000	Aug-00	16.40	0.00	93.80	77.40	µg/L	5,500	27	300	390	< 10	5,600		--	< 10	< 10	85	< 10	< 10
MW-7	MW-7	AQ	5	11/6/2000	Nov-00	16.67	0.00	93.80	77.13	µg/L	3,400	29	230	330	< 10	6,000		--	< 10	< 10	66	< 10	< 10
MW-7	MW-7	AQ	5	2/16/2001	Feb-01	16.60	0.00	93.80	77.20	µg/L	3,400	27	200	290	3.1	4,400		--	< 2	< 2	60	< 2	< 2
MW-7	MW-7	AQ	5	4/27/2001	Apr-01	16.00	0.00	93.80	77.80	µg/L	6,000	44	390	620	2.7	6,100		--	< 2.5	< 2.5	37	< 2.5	< 2.5
MW-7	MW-7	AQ	5	7/24/2001	Jul-01	16.22	0.00	93.80	77.58	µg/L	4,500	16	390	840	< 2.0	6,000		--	< 2.0	< 2.0	39	< 2.0	< 2.0
MW-7	MW-7	AQ	5	3/27/2002	Mar-02	15.74	0.00	93.80	78.06	µg/L	6,400	< 50	230	370	< 500	34,000	570	< 500	< 50.0	< 50	< 50	< 50.0	< 50.0
MW-7	MW-7	AQ	2	3/27/2002	Mar-02	15.74	0.00	93.80	78.06	µg/L	6,500	< 50	280	500	< 500	27,000	740	< 500	< 50.0	< 50	< 50	< 50.0	< 50.0
MW-7	MW-7	AQ	2	6/5/2002	Jun-02	15.71	0.00	93.80	78.09	µg/L		<			<			<	<	<	<	<	<
MW-8	MW-8	AQ	5	11/5/1999	Nov-99	15.15	0.00	94.49	76.34	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 50		--	6.2	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	2/1/2000	Feb-00	18.10	0.00	94.49	76.39	µg/L	0.6	< 0.5	< 0.5	< 0.5	< 0.5*	< 50		--	3.8	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	5/2/2000	May-00	17.25	0.00	94.49	77.24	µg/L	1.1	< 0.5	< 0.5	< 0.5	< 0.5*	< 50		--	3.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	8/1/2000	Aug-00	17.52	0.00	94.49	76.97	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50		--	3.6	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	11/6/2000	Nov-00	17.83	0.00	94.49	76.66	µg/L	1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 50		--	3.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	2/16/2001	Feb-01	17.74	0.00	94.49	76.75	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50		--	6.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	4/27/2001	Apr-01	17.10	0.00	94.49	77.39	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50		--	4.2	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	5	7/24/2001	Jul-01	17.33	0.00	94.49	77.16	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50		--	4.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	AQ	4	3/27/2002	Mar-02	16.87	0.00	94.49	77.62	µg/L													
MW-8	MW-8	AQ	4	6/5/2002	Jun-02	16.81	0.00	94.49	77.68	µg/L													
MW-9	MW-9	AQ	5	11/5/1999	Nov-99	16.86	0.00	92.54	75.68	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3/2.4*	< <50		--	65	29	32	<0.5	< 0.5
MW-9	MW-9	AQ	5	2/1/2000	Feb-00	16.70	0.00	92.54	75.84	µg/L	2.6	< 0.5	< 0.5	< 0.5	3.0*	< <50		--	60	22	36	0.7	< 0.5
MW-9	MW-9	AQ	5	5/2/2000	May-00	16.02	0.00	92.54	76.52	µg/L	0.6	< 0.5	< 0.5	< 0.5	2.0*	77		--	39	19	30	0.5	< 0.5
MW-9	MW-9	AQ	5	8/1/2000	Aug-00	15.34	0.00	92.54	76.20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	2.7	70		--	41	19	37	0.7	< 0.5
MW-9	MW-9	AQ	5	11/6/2000	Nov-00	16.55	0.00	92.54	75.99	µg/L	0.6	< 0.5	< 0.5	< 0.5	3.2	74		--	31	15	34	0.8	< 0.5
MW-9	MW-9	AQ	5	2/16/2001	Feb-01	16.31	0.00	92.54	76.23	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	3.4	52		--	26	14	33	0.9	< 0.5
MW-9	MW-9	AQ	5	4/27/2001	Apr-01	15.90	0.00	92.54	76.64	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.9	64		--	42	16	38	0.6	< 0.5
MW-9	MW-9	AQ	5	7/24/2001	Jul-01	15.19	0.00	92.54	76.35	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 50		--	31	12	34	0.7	< 0.5
MW-9	MW-9	AQ	2	3/27/2002	Mar-02	15.61	0.00	92.54	76.93	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	32	10	17	0.73	< 0.50
MW-9	MW-9	AQ	2	6/5/2002	Jun-02	15.71	0.00	92.54	76.83	µg/L	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 50	< 50	< 500	32	10	17	0.73	< 0.50

Appendix A
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 5 of 5)

						GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS													
Well No.	Sample No.	Sample Matrix	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Anal. Units	B	T	E	X	MTBE	$TPH_{gasoline}$	TPHdiesel	OIL and GREASE	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE

Notes

-- = Not applicable and/or no measurements taken/provided

1: "Pre-purge" sample

2: "Post-purge" sample

3: Duplicate sample

4. Well not sampled

5. Data obtained from Previous Consultant

6. Well was not accessible during gauging/sampling event.

MSL = Mean Sea Level

Groundwater Elevation =

Top of casing elevation -(Depth to Water - (0.8 * Standing Product thickness).

J = Sample analyzed beyond holding time. The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

= Duplicate

Notes: Historical data before June 1996 as reported by previous consultants

< = Analyte not detected above indicated method detection limit

< = Compound was not detected above the laboratory reporting limit.

TPH-Gasoline = Total petroleum hydrocarbons - gasoline range organics.

ND = Not detected at or above the method detection limit.

SP = Seperate-phase petroleum hydrocarbons present, not sampled.

PCE = Tetrachloroehtene

1,2-DCA = 1,2-Dichloroethane

TCE = Trichloroehtene

cis-1,2-DCE = cis-1,2 Dichloroethene

1,1-DCE = 1,1-Dichloroethene

TPH-Gasoline = Total petroleum hydrocarbons - gasoline range organics.

MTBE = Methyl tert-Butyl ether (Prior to 5/99 analyzed using EPA Method 8020; '99 duplicates and all post-'99 samples analyzed using EPA Method 8260.)

B = Benzene

E = Ethylbenzene

T = Toluene

X = Xylenes

-- = Not analyzed/Not available.

APPENDIX B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

Submission #: 2002-03-0549

Date: April 5, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

URS-Santa Ana
2020 East 1st St Suite 400
Santa Ana, CA 92705

Attn: Scott Rowlands

Project: Sears Oakland 1039

Attached is our report for your samples received on Wednesday March 27, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after May 11, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour
Project Manager

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

URS-Santa Ana	✉ 2020 East 1st St Suite 400 Santa Ana, CA 92705
Attn: Scott Rowlands	Phone: (714) 648-2793 Fax: (714) 667-7147
	Project: Sears Oakland 1039

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	03/27/2002 10:00	1
MW-5	Water	03/27/2002 10:45	2
MW-9	Water	03/27/2002 11:55	3
MW-2	Water	03/27/2002 13:21	4
EB-1	Water	03/27/2002 13:42	5
MW-7	Water	03/27/2002 14:30	6
DUP-1	Water	03/27/2002 15:10	7

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-4**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0549-001
Received: 03/27/2002 18:20
Extracted: 04/02/2002 13:25
QC-Batch: 2002/04/02-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/02/2002 13:25	
Acetone	ND	50	ug/L	1.00	04/02/2002 13:25	
Benzene	1.4	0.50	ug/L	1.00	04/02/2002 13:25	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Bromobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Bromochloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Bromoform	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Bromomethane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/02/2002 13:25	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Carbon disulfide	ND	5.0	ug/L	1.00	04/02/2002 13:25	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Chlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Chloroethane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/02/2002 13:25	
Chloroform	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Chloromethane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Dibromomethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/02/2002 13:25	

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-4**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0549-001
Received: 03/27/2002 18:20
Extracted: 04/02/2002 13:25
QC-Batch: 2002/04/02-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
2-Hexanone	ND	50	ug/L	1.00	04/02/2002 13:25	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Methylene chloride	ND	5.0	ug/L	1.00	04/02/2002 13:25	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/02/2002 13:25	
Naphthalene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Styrene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Toluene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:25	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Trichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Vinyl acetate	ND	25	ug/L	1.00	04/02/2002 13:25	
Vinyl chloride	ND	0.50	ug/L	1.00	04/02/2002 13:25	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2002 13:25	
Surrogate(s)						
4-Bromofluorobenzene	97.7	86-115	%	1.00	04/02/2002 13:25	
1,2-Dichloroethane-d4	107.9	76-114	%	1.00	04/02/2002 13:25	
Toluene-d8	95.5	88-110	%	1.00	04/02/2002 13:25	

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-5**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:45
Matrix: Water

Lab Sample ID: 2002-03-0549-002
Received: 03/27/2002 18:20
Extracted: 04/02/2002 13:59
QC-Batch: 2002/04/02-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Ethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
2-Hexanone	ND	50	ug/L	1.00	04/02/2002 13:59	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
Methylene chloride	ND	5.0	ug/L	1.00	04/02/2002 13:59	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/02/2002 13:59	
Naphthalene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
Styrene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Tetrachloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Toluene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/02/2002 13:59	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Trichloroethene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/02/2002 13:59	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Vinyl acetate	ND	25	ug/L	1.00	04/02/2002 13:59	
Vinyl chloride	ND	0.50	ug/L	1.00	04/02/2002 13:59	
Total xylenes	ND	1.0	ug/L	1.00	04/02/2002 13:59	
Surrogate(s)						
4-Bromofluorobenzene	101.9	86-115	%	1.00	04/02/2002 13:59	
1,2-Dichloroethane-d4	97.0	76-114	%	1.00	04/02/2002 13:59	
Toluene-d8	99.3	88-110	%	1.00	04/02/2002 13:59	

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

Sample ID: **MW-9**
Project: Sears Oakland 1039
Sampled: 03/27/2002 11:55
Matrix: Water

Lab Sample ID: 2002-03-0549-003
Received: 03/27/2002 18:20
Extracted: 04/01/2002 22:11
QC-Batch: 2002/04/01-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/01/2002 22:11	
Acetone	ND	50	ug/L	1.00	04/01/2002 22:11	
Benzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Bromobenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Bromochloromethane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Bromoform	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Bromomethane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/01/2002 22:11	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Carbon disulfide	ND	5.0	ug/L	1.00	04/01/2002 22:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Chlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Chloroethane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/01/2002 22:11	
Chloroform	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Chloromethane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Dibromomethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2-Dichloroethane	17	0.50	ug/L	1.00	04/01/2002 22:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
cis-1,2-Dichloroethene	0.73	0.50	ug/L	1.00	04/01/2002 22:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/01/2002 22:11	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-9**
Project: Sears Oakland 1039
Sampled: 03/27/2002 11:55
Matrix: Water

Lab Sample ID: 2002-03-0549-003
Received: 03/27/2002 18:20
Extracted: 04/01/2002 22:11
QC-Batch: 2002/04/01-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Ethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
2-Hexanone	ND	50	ug/L	1.00	04/01/2002 22:11	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Methylene chloride	ND	5.0	ug/L	1.00	04/01/2002 22:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/01/2002 22:11	
Naphthalene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Styrene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Tetrachloroethene	32	0.50	ug/L	1.00	04/01/2002 22:11	
Toluene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/01/2002 22:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Trichloroethene	10	0.50	ug/L	1.00	04/01/2002 22:11	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Vinyl acetate	ND	25	ug/L	1.00	04/01/2002 22:11	
Vinyl chloride	ND	0.50	ug/L	1.00	04/01/2002 22:11	
Total xylenes	ND	1.0	ug/L	1.00	04/01/2002 22:11	
Surrogate(s)						
4-Bromofluorobenzene	103.6	86-115	%	1.00	04/01/2002 22:11	
1,2-Dichloroethane-d4	99.3	76-114	%	1.00	04/01/2002 22:11	
Toluene-d8	98.4	88-110	%	1.00	04/01/2002 22:11	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-2**
Project: Sears Oakland 1039
Sampled: 03/27/2002 13:21
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0549-004
Received: 03/27/2002 18:20
Extracted: 04/03/2002 01:16
QC-Batch: 2002/04/02-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	04/03/2002 01:16	
Acetone	ND	500	ug/L	10.00	04/03/2002 01:16	
Benzene	610	5.0	ug/L	10.00	04/03/2002 01:16	
Bromodichloromethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Bromobenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
Bromochloromethane	ND	10	ug/L	10.00	04/03/2002 01:16	
Bromoform	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Bromomethane	ND	10	ug/L	10.00	04/03/2002 01:16	
2-Butanone(MEK)	ND	500	ug/L	10.00	04/03/2002 01:16	
n-Butylbenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
sec-Butylbenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
tert-Butylbenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
Carbon disulfide	ND	50	ug/L	10.00	04/03/2002 01:16	
Carbon tetrachloride	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Chlorobenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Chloroethane	ND	10	ug/L	10.00	04/03/2002 01:16	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	04/03/2002 01:16	
Chloroform	ND	10	ug/L	10.00	04/03/2002 01:16	
Chloromethane	ND	10	ug/L	10.00	04/03/2002 01:16	
2-Chlorotoluene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
4-Chlorotoluene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Dibromochloromethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,3-Dichloropropane	ND	10	ug/L	10.00	04/03/2002 01:16	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	04/03/2002 01:16	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Dibromomethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,2-Dichloroethane	8.9	5.0	ug/L	10.00	04/03/2002 01:16	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	04/03/2002 01:16	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-2**
Project: Sears Oakland 1039
Sampled: 03/27/2002 13:21
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID. 2002-03-0549-004
Received: 03/27/2002 18:20
Extracted: 04/03/2002 01:16
QC-Batch: 2002/04/02-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Ethylbenzene	19	5.0	ug/L	10.00	04/03/2002 01:16	
Hexachlorobutadiene	ND	10	ug/L	10.00	04/03/2002 01:16	
2-Hexanone	ND	500	ug/L	10.00	04/03/2002 01:16	
Isopropylbenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
p-Isopropyltoluene	ND	10	ug/L	10.00	04/03/2002 01:16	
Methylene chloride	ND	50	ug/L	10.00	04/03/2002 01:16	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	04/03/2002 01:16	
Naphthalene	ND	10	ug/L	10.00	04/03/2002 01:16	
n-Propylbenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
Styrene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Tetrachloroethene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Toluene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	04/03/2002 01:16	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Trichloroethene	5.1	5.0	ug/L	10.00	04/03/2002 01:16	
Trichlorofluoromethane	ND	10	ug/L	10.00	04/03/2002 01:16	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Vinyl acetate	ND	250	ug/L	10.00	04/03/2002 01:16	
Vinyl chloride	ND	5.0	ug/L	10.00	04/03/2002 01:16	
Total xylenes	14	10	ug/L	10.00	04/03/2002 01:16	
Surrogate(s)						
4-Bromofluorobenzene	97.9	86-115	%	10.00	04/03/2002 01:16	
1,2-Dichloroethane-d4	109.1	76-114	%	10.00	04/03/2002 01:16	
Toluene-d8	99.6	88-110	%	10.00	04/03/2002 01:16	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
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CA DHS ELAP#1094

Sample ID: **EB-1**
Project: Sears Oakland 1039
Sampled: 03/27/2002 13:42
Matrix: Water

Lab Sample ID: 2002-03-0549-005
Received: 03/27/2002 18:20
Extracted: 04/04/2002 15:20
QC-Batch: 2002/04/04-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/04/2002 15:20	
Acetone	ND	50	ug/L	1.00	04/04/2002 15:20	
Benzene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Bromobenzene	ND	1.0	ug/L	1.00	04/04/2002 15:20	
Bromochloromethane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
Bromoform	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Bromomethane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/04/2002 15:20	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 15:20	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 15:20	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/04/2002 15:20	
Carbon disulfide	ND	5.0	ug/L	1.00	04/04/2002 15:20	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Chlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Chloroethane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/04/2002 15:20	
Chloroform	ND	1.0	ug/L	1.00	04/04/2002 15:20	
Chloromethane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/04/2002 15:20	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Dibromomethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/04/2002 15:20	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/04/2002 15:20	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-7**
Project: Sears Oakland 1039
Sampled: 03/27/2002 14:30
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0549-006
Received: 03/27/2002 18:20
Extracted: 04/04/2002 14:13
QC-Batch: 2002/04/04-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	500	ug/L	100.00	04/04/2002 14:13	
Acetone	ND	5000	ug/L	100.00	04/04/2002 14:13	
Benzene	6400	50	ug/L	100.00	04/04/2002 14:13	
Bromodichloromethane	ND	50	ug/L	100.00	04/04/2002 14:13	
Bromobenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
Bromochloromethane	ND	100	ug/L	100.00	04/04/2002 14:13	
Bromoform	ND	50	ug/L	100.00	04/04/2002 14:13	
Bromomethane	ND	100	ug/L	100.00	04/04/2002 14:13	
2-Butanone(MEK)	ND	5000	ug/L	100.00	04/04/2002 14:13	
n-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
sec-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
tert-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
Carbon disulfide	ND	500	ug/L	100.00	04/04/2002 14:13	
Carbon tetrachloride	ND	50	ug/L	100.00	04/04/2002 14:13	
Chlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:13	
Chloroethane	ND	100	ug/L	100.00	04/04/2002 14:13	
2-Chloroethylvinyl ether	ND	500	ug/L	100.00	04/04/2002 14:13	
Chloroform	ND	100	ug/L	100.00	04/04/2002 14:13	
Chloromethane	ND	100	ug/L	100.00	04/04/2002 14:13	
2-Chlorotoluene	ND	50	ug/L	100.00	04/04/2002 14:13	
4-Chlorotoluene	ND	50	ug/L	100.00	04/04/2002 14:13	
Dibromochloromethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,2-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,3-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,4-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,3-Dichloropropane	ND	100	ug/L	100.00	04/04/2002 14:13	
2,2-Dichloropropane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	100.00	04/04/2002 14:13	
1,2-Dibromoethane	ND	50	ug/L	100.00	04/04/2002 14:13	
Dibromomethane	ND	50	ug/L	100.00	04/04/2002 14:13	
Dichlorodifluoromethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1-Dichloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,2-Dichloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:13	
cis-1,2-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:13	
trans-1,2-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:13	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-7**
Project: Sears Oakland 1039
Sampled: 03/27/2002 14:30
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0549-006
Received: 03/27/2002 18:20
Extracted: 04/04/2002 14:13
QC-Batch: 2002/04/04-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	50	ug/L	100.00	04/04/2002 14:13	
cis-1,3-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:13	
trans-1,3-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:13	
Ethylbenzene	230	50	ug/L	100.00	04/04/2002 14:13	
Hexachlorobutadiene	ND	100	ug/L	100.00	04/04/2002 14:13	
2-Hexanone	ND	5000	ug/L	100.00	04/04/2002 14:13	
Isopropylbenzene	ND	50	ug/L	100.00	04/04/2002 14:13	
p-Isopropyltoluene	ND	100	ug/L	100.00	04/04/2002 14:13	
Methylene chloride	ND	500	ug/L	100.00	04/04/2002 14:13	
4-Methyl-2-pentanone (MIBK)	ND	5000	ug/L	100.00	04/04/2002 14:13	
Naphthalene	ND	100	ug/L	100.00	04/04/2002 14:13	
n-Propylbenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
Styrene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1,1,2-Tetrachloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1,2,2-Tetrachloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
Tetrachloroethene	ND	50	ug/L	100.00	04/04/2002 14:13	
Toluene	ND	50	ug/L	100.00	04/04/2002 14:13	
1,2,3-Trichlorobenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
1,2,4-Trichlorobenzene	ND	100	ug/L	100.00	04/04/2002 14:13	
1,1,1-Trichloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,1,2-Trichloroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
Trichloroethene	ND	50	ug/L	100.00	04/04/2002 14:13	
Trichlorofluoromethane	ND	100	ug/L	100.00	04/04/2002 14:13	
Trichlorotrifluoroethane	ND	50	ug/L	100.00	04/04/2002 14:13	
1,2,4-Trimethylbenzene	110	50	ug/L	100.00	04/04/2002 14:13	
1,3,5-Trimethylbenzene	53	50	ug/L	100.00	04/04/2002 14:13	
Vinyl acetate	ND	2500	ug/L	100.00	04/04/2002 14:13	
Vinyl chloride	ND	50	ug/L	100.00	04/04/2002 14:13	
Total xylenes	370	100	ug/L	100.00	04/04/2002 14:13	
Surrogate(s)						
4-Bromofluorobenzene	101.3	86-115	%	1.00	04/04/2002 14:13	
1,2-Dichloroethane-d4	107.1	76-114	%	1.00	04/04/2002 14:13	
Toluene-d8	96.8	88-110	%	1.00	04/04/2002 14:13	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

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1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Sample ID. **DUP-1**
Project: Sears Oakland 1039
Sampled: 03/27/2002 15:10
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0549-007
Received: 03/27/2002 18:20
Extracted: 04/04/2002 14:47
QC-Batch: 2002/04/04-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	500	ug/L	100.00	04/04/2002 14:47	
Acetone	ND	5000	ug/L	100.00	04/04/2002 14:47	
Benzene	6500	50	ug/L	100.00	04/04/2002 14:47	
Bromodichloromethane	ND	50	ug/L	100.00	04/04/2002 14:47	
Bromobenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
Bromochloromethane	ND	100	ug/L	100.00	04/04/2002 14:47	
Bromoform	ND	50	ug/L	100.00	04/04/2002 14:47	
Bromomethane	ND	100	ug/L	100.00	04/04/2002 14:47	
2-Butanone(MEK)	ND	5000	ug/L	100.00	04/04/2002 14:47	
n-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
sec-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
tert-Butylbenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
Carbon disulfide	ND	500	ug/L	100.00	04/04/2002 14:47	
Carbon tetrachloride	ND	50	ug/L	100.00	04/04/2002 14:47	
Chlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:47	
Chloroethane	ND	100	ug/L	100.00	04/04/2002 14:47	
2-Chloroethylvinyl ether	ND	500	ug/L	100.00	04/04/2002 14:47	
Chloroform	ND	100	ug/L	100.00	04/04/2002 14:47	
Chloromethane	ND	100	ug/L	100.00	04/04/2002 14:47	
2-Chlorotoluene	ND	50	ug/L	100.00	04/04/2002 14:47	
4-Chlorotoluene	ND	50	ug/L	100.00	04/04/2002 14:47	
Dibromochloromethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,2-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,3-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,4-Dichlorobenzene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,3-Dichloropropane	ND	100	ug/L	100.00	04/04/2002 14:47	
2,2-Dichloropropane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	100.00	04/04/2002 14:47	
1,2-Dibromoethane	ND	50	ug/L	100.00	04/04/2002 14:47	
Dibromomethane	ND	50	ug/L	100.00	04/04/2002 14:47	
Dichlorodifluoromethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1-Dichloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,2-Dichloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:47	
cis-1,2-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:47	
trans-1,2-Dichloroethene	ND	50	ug/L	100.00	04/04/2002 14:47	

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Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
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CA DHS ELAP#1094

Sample ID: **DUP-1**
Project: Sears Oakland 1039
Sampled: 03/27/2002 15:10
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0549-007
Received: 03/27/2002 18:20
Extracted: 04/04/2002 14:47
QC-Batch: 2002/04/04-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	50	ug/L	100.00	04/04/2002 14:47	
cis-1,3-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:47	
trans-1,3-Dichloropropene	ND	50	ug/L	100.00	04/04/2002 14:47	
Ethylbenzene	280	50	ug/L	100.00	04/04/2002 14:47	
Hexachlorobutadiene	ND	100	ug/L	100.00	04/04/2002 14:47	
2-Hexanone	ND	5000	ug/L	100.00	04/04/2002 14:47	
Isopropylbenzene	ND	50	ug/L	100.00	04/04/2002 14:47	
p-Isopropyltoluene	ND	100	ug/L	100.00	04/04/2002 14:47	
Methylene chloride	ND	500	ug/L	100.00	04/04/2002 14:47	
4-Methyl-2-pentanone (MIBK)	ND	5000	ug/L	100.00	04/04/2002 14:47	
Naphthalene	ND	100	ug/L	100.00	04/04/2002 14:47	
n-Propylbenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
Styrene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1,1,2-Tetrachloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1,2,2-Tetrachloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
Tetrachloroethene	ND	50	ug/L	100.00	04/04/2002 14:47	
Toluene	ND	50	ug/L	100.00	04/04/2002 14:47	
1,2,3-Trichlorobenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
1,2,4-Trichlorobenzene	ND	100	ug/L	100.00	04/04/2002 14:47	
1,1,1-Trichloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,1,2-Trichloroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
Trichloroethene	ND	50	ug/L	100.00	04/04/2002 14:47	
Trichlorofluoromethane	ND	100	ug/L	100.00	04/04/2002 14:47	
Trichlorotrifluoroethane	ND	50	ug/L	100.00	04/04/2002 14:47	
1,2,4-Trimethylbenzene	150	50	ug/L	100.00	04/04/2002 14:47	
1,3,5-Trimethylbenzene	84	50	ug/L	100.00	04/04/2002 14:47	
Vinyl acetate	ND	2500	ug/L	100.00	04/04/2002 14:47	
Vinyl chloride	ND	50	ug/L	100.00	04/04/2002 14:47	
Total xylenes	500	100	ug/L	100.00	04/04/2002 14:47	
Surrogate(s)						
4-Bromofluorobenzene	101.7	86-115	%	1.00	04/04/2002 14:47	
1,2-Dichloroethane-d4	102.5	76-114	%	1.00	04/04/2002 14:47	
Toluene-d8	96.5	88-110	%	1.00	04/04/2002 14:47	

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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/01-01.60**

MB: 2002/04/01-01.60-044 Date Extracted: 04/01/2002 13:44

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/01/2002 13:44	
Acetone	ND	50	ug/L	04/01/2002 13:44	
Benzene	ND	0.5	ug/L	04/01/2002 13:44	
Bromodichloromethane	ND	0.5	ug/L	04/01/2002 13:44	
Bromobenzene	ND	1.0	ug/L	04/01/2002 13:44	
Bromochloromethane	ND	1.0	ug/L	04/01/2002 13:44	
Bromoform	ND	0.5	ug/L	04/01/2002 13:44	
Bromomethane	ND	1.0	ug/L	04/01/2002 13:44	
2-Butanone(MEK)	ND	50	ug/L	04/01/2002 13:44	
n-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:44	
sec-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:44	
tert-Butylbenzene	ND	1.0	ug/L	04/01/2002 13:44	
Carbon disulfide	ND	5.0	ug/L	04/01/2002 13:44	
Carbon tetrachloride	ND	0.5	ug/L	04/01/2002 13:44	
Chlorobenzene	ND	0.5	ug/L	04/01/2002 13:44	
Chloroethane	ND	1.0	ug/L	04/01/2002 13:44	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/01/2002 13:44	
Chloroform	ND	1.0	ug/L	04/01/2002 13:44	
Chloromethane	ND	1.0	ug/L	04/01/2002 13:44	
2-Chlorotoluene	ND	0.5	ug/L	04/01/2002 13:44	
4-Chlorotoluene	ND	0.5	ug/L	04/01/2002 13:44	
Dibromochloromethane	ND	0.5	ug/L	04/01/2002 13:44	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:44	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:44	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/01/2002 13:44	
1,3-Dichloropropane	ND	1.0	ug/L	04/01/2002 13:44	
2,2-Dichloropropane	ND	0.5	ug/L	04/01/2002 13:44	
1,1-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:44	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/01/2002 13:44	
1,2-Dibromoethane	ND	0.5	ug/L	04/01/2002 13:44	
Dibromomethane	ND	0.5	ug/L	04/01/2002 13:44	
Dichlorodifluoromethane	ND	0.5	ug/L	04/01/2002 13:44	
1,1-Dichloroethane	ND	0.5	ug/L	04/01/2002 13:44	
1,2-Dichloroethane	ND	0.5	ug/L	04/01/2002 13:44	
1,1-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:44	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:44	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/01/2002 13:44	
1,2-Dichloropropane	ND	0.5	ug/L	04/01/2002 13:44	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:44	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/01/2002 13:44	
Ethylbenzene	ND	0.5	ug/L	04/01/2002 13:44	

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Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/01-01.60**

MB: 2002/04/01-01.60-044 Date Extracted: 04/01/2002 13:44

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/01/2002 13:44	
2-Hexanone	ND	50	ug/L	04/01/2002 13:44	
Isopropylbenzene	ND	0.5	ug/L	04/01/2002 13:44	
p-Isopropyltoluene	ND	1.0	ug/L	04/01/2002 13:44	
Methylene chloride	ND	5.0	ug/L	04/01/2002 13:44	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/01/2002 13:44	
Naphthalene	ND	1.0	ug/L	04/01/2002 13:44	
n-Propylbenzene	ND	1.0	ug/L	04/01/2002 13:44	
Styrene	ND	0.5	ug/L	04/01/2002 13:44	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/01/2002 13:44	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/01/2002 13:44	
Tetrachloroethene	ND	0.5	ug/L	04/01/2002 13:44	
Toluene	ND	0.5	ug/L	04/01/2002 13:44	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/01/2002 13:44	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/01/2002 13:44	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/01/2002 13:44	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/01/2002 13:44	
Trichloroethene	ND	0.5	ug/L	04/01/2002 13:44	
Trichlorofluoromethane	ND	1.0	ug/L	04/01/2002 13:44	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/01/2002 13:44	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/01/2002 13:44	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/01/2002 13:44	
Vinyl acetate	ND	25	ug/L	04/01/2002 13:44	
Vinyl chloride	ND	0.5	ug/L	04/01/2002 13:44	
Total xylenes	ND	1.0	ug/L	04/01/2002 13:44	
Surrogate(s)					
4-Bromofluorobenzene	106.4	86-115	%	04/01/2002 13:44	
1,2-Dichloroethane-d4	103.5	76-114	%	04/01/2002 13:44	
Toluene-d8	97.6	88-110	%	04/01/2002 13:44	

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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/02-01.60**

MB: 2002/04/02-01.60-018 Date Extracted: 04/02/2002 12:18

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/02/2002 12:18	
Acetone	ND	50	ug/L	04/02/2002 12:18	
Benzene	ND	0.5	ug/L	04/02/2002 12:18	
Bromodichloromethane	ND	0.5	ug/L	04/02/2002 12:18	
Bromobenzene	ND	1.0	ug/L	04/02/2002 12:18	
Bromochloromethane	ND	1.0	ug/L	04/02/2002 12:18	
Bromoform	ND	0.5	ug/L	04/02/2002 12:18	
Bromomethane	ND	1.0	ug/L	04/02/2002 12:18	
2-Butanone(MEK)	ND	50	ug/L	04/02/2002 12:18	
n-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:18	
sec-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:18	
tert-Butylbenzene	ND	1.0	ug/L	04/02/2002 12:18	
Carbon disulfide	ND	5.0	ug/L	04/02/2002 12:18	
Carbon tetrachloride	ND	0.5	ug/L	04/02/2002 12:18	
Chlorobenzene	ND	0.5	ug/L	04/02/2002 12:18	
Chloroethane	ND	1.0	ug/L	04/02/2002 12:18	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/02/2002 12:18	
Chloroform	ND	1.0	ug/L	04/02/2002 12:18	
Chloromethane	ND	1.0	ug/L	04/02/2002 12:18	
2-Chlorotoluene	ND	0.5	ug/L	04/02/2002 12:18	
4-Chlorotoluene	ND	0.5	ug/L	04/02/2002 12:18	
Dibromochloromethane	ND	0.5	ug/L	04/02/2002 12:18	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:18	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:18	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/02/2002 12:18	
1,3-Dichloropropane	ND	1.0	ug/L	04/02/2002 12:18	
2,2-Dichloropropane	ND	0.5	ug/L	04/02/2002 12:18	
1,1-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:18	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/02/2002 12:18	
1,2-Dibromoethane	ND	0.5	ug/L	04/02/2002 12:18	
Dibromomethane	ND	0.5	ug/L	04/02/2002 12:18	
Dichlorodifluoromethane	ND	0.5	ug/L	04/02/2002 12:18	
1,1-Dichloroethane	ND	0.5	ug/L	04/02/2002 12:18	
1,2-Dichloroethane	ND	0.5	ug/L	04/02/2002 12:18	
1,1-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:18	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:18	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/02/2002 12:18	
1,2-Dichloropropane	ND	0.5	ug/L	04/02/2002 12:18	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:18	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/02/2002 12:18	
Ethylbenzene	ND	0.5	ug/L	04/02/2002 12:18	

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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/02-01.60**

MB: 2002/04/02-01.60-018 Date Extracted: 04/02/2002 12:18

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/02/2002 12:18	
2-Hexanone	ND	50	ug/L	04/02/2002 12:18	
Isopropylbenzene	ND	0.5	ug/L	04/02/2002 12:18	
p-Isopropyltoluene	ND	1.0	ug/L	04/02/2002 12:18	
Methylene chloride	ND	5.0	ug/L	04/02/2002 12:18	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/02/2002 12:18	
Naphthalene	ND	1.0	ug/L	04/02/2002 12:18	
n-Propylbenzene	ND	1.0	ug/L	04/02/2002 12:18	
Styrene	ND	0.5	ug/L	04/02/2002 12:18	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/02/2002 12:18	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/02/2002 12:18	
Tetrachloroethene	ND	0.5	ug/L	04/02/2002 12:18	
Toluene	ND	0.5	ug/L	04/02/2002 12:18	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/02/2002 12:18	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/02/2002 12:18	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/02/2002 12:18	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/02/2002 12:18	
Trichloroethene	ND	0.5	ug/L	04/02/2002 12:18	
Trichlorofluoromethane	ND	1.0	ug/L	04/02/2002 12:18	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/02/2002 12:18	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/02/2002 12:18	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/02/2002 12:18	
Vinyl acetate	ND	25	ug/L	04/02/2002 12:18	
Vinyl chloride	ND	0.5	ug/L	04/02/2002 12:18	
Total xylenes	ND	1.0	ug/L	04/02/2002 12:18	
Surrogate(s)					
4-Bromofluorobenzene	100.5	86-115	%	04/02/2002 12:18	
1,2-Dichloroethane-d4	98.7	76-114	%	04/02/2002 12:18	
Toluene-d8	102.2	88-110	%	04/02/2002 12:18	

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1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/04-01.60**

MB: 2002/04/04-01.60-005 Date Extracted: 04/04/2002 13:05

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/04/2002 13:05	
Acetone	ND	50	ug/L	04/04/2002 13:05	
Benzene	ND	0.5	ug/L	04/04/2002 13:05	
Bromodichloromethane	ND	0.5	ug/L	04/04/2002 13:05	
Bromobenzene	ND	1.0	ug/L	04/04/2002 13:05	
Bromochloromethane	ND	1.0	ug/L	04/04/2002 13:05	
Bromoform	ND	0.5	ug/L	04/04/2002 13:05	
Bromomethane	ND	1.0	ug/L	04/04/2002 13:05	
2-Butanone(MEK)	ND	50	ug/L	04/04/2002 13:05	
n-Butylbenzene	ND	1.0	ug/L	04/04/2002 13:05	
sec-Butylbenzene	ND	1.0	ug/L	04/04/2002 13:05	
tert-Butylbenzene	ND	1.0	ug/L	04/04/2002 13:05	
Carbon disulfide	ND	5.0	ug/L	04/04/2002 13:05	
Carbon tetrachloride	ND	0.5	ug/L	04/04/2002 13:05	
Chlorobenzene	ND	0.5	ug/L	04/04/2002 13:05	
Chloroethane	ND	1.0	ug/L	04/04/2002 13:05	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/04/2002 13:05	
Chloroform	ND	1.0	ug/L	04/04/2002 13:05	
Chloromethane	ND	1.0	ug/L	04/04/2002 13:05	
2-Chlorotoluene	ND	0.5	ug/L	04/04/2002 13:05	
4-Chlorotoluene	ND	0.5	ug/L	04/04/2002 13:05	
Dibromochloromethane	ND	0.5	ug/L	04/04/2002 13:05	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 13:05	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 13:05	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/04/2002 13:05	
1,3-Dichloropropane	ND	1.0	ug/L	04/04/2002 13:05	
2,2-Dichloropropane	ND	0.5	ug/L	04/04/2002 13:05	
1,1-Dichloropropene	ND	0.5	ug/L	04/04/2002 13:05	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/04/2002 13:05	
1,2-Dibromoethane	ND	0.5	ug/L	04/04/2002 13:05	
Dibromomethane	ND	0.5	ug/L	04/04/2002 13:05	
Dichlorodifluoromethane	ND	0.5	ug/L	04/04/2002 13:05	
1,1-Dichloroethane	ND	0.5	ug/L	04/04/2002 13:05	
1,2-Dichloroethane	ND	0.5	ug/L	04/04/2002 13:05	
1,1-Dichloroethene	ND	0.5	ug/L	04/04/2002 13:05	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2002 13:05	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/04/2002 13:05	
1,2-Dichloropropane	ND	0.5	ug/L	04/04/2002 13:05	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2002 13:05	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/04/2002 13:05	
Ethylbenzene	ND	0.5	ug/L	04/04/2002 13:05	

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/04-01.60**

MB: 2002/04/04-01.60-005 Date Extracted: 04/04/2002 13:05

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/04/2002 13:05	
2-Hexanone	ND	50	ug/L	04/04/2002 13:05	
Isopropylbenzene	ND	0.5	ug/L	04/04/2002 13:05	
p-Isopropyltoluene	ND	1.0	ug/L	04/04/2002 13:05	
Methylene chloride	ND	5.0	ug/L	04/04/2002 13:05	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/04/2002 13:05	
Naphthalene	ND	1.0	ug/L	04/04/2002 13:05	
n-Propylbenzene	ND	1.0	ug/L	04/04/2002 13:05	
Styrene	ND	0.5	ug/L	04/04/2002 13:05	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/04/2002 13:05	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/04/2002 13:05	
Tetrachloroethene	ND	0.5	ug/L	04/04/2002 13:05	
Toluene	ND	0.5	ug/L	04/04/2002 13:05	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/04/2002 13:05	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/04/2002 13:05	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/04/2002 13:05	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/04/2002 13:05	
Trichloroethene	ND	0.5	ug/L	04/04/2002 13:05	
Trichlorofluoromethane	ND	1.0	ug/L	04/04/2002 13:05	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/04/2002 13:05	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/04/2002 13:05	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/04/2002 13:05	
Vinyl acetate	ND	25	ug/L	04/04/2002 13:05	
Vinyl chloride	ND	0.5	ug/L	04/04/2002 13:05	
Total xylenes	ND	1.0	ug/L	04/04/2002 13:05	
Surrogate(s)					
4-Bromofluorobenzene	99.6	86-115	%	04/04/2002 13:05	
1,2-Dichloroethane-d4	100.4	76-114	%	04/04/2002 13:05	
Toluene-d8	98.5	88-110	%	04/04/2002 13:05	

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Fax 925 484 1096
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/01-01.60**

LCS: 2002/04/01-01.60-036 Extracted: 04/01/2002 12:36 Analyzed: 04/01/2002 12:36

LCSD: 2002/04/01-01.60-010 Extracted: 04/01/2002 13:10 Analyzed: 04/01/2002 13:10

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	18.6	18.9	20.0	20.0	93.0	94.5	1.6	69-129	20		
Chlorobenzene	20.7	21.7	20.0	20.0	103.5	108.5	4.7	61-121	20		
1,1-Dichloroethene	17.8	17.8	20.0	20.0	89.0	89.0	0.0	65-125	20		
Toluene	18.4	18.0	20.0	20.0	92.0	90.0	2.2	70-130	20		
Trichloroethene	17.6	18.2	20.0	20.0	88.0	91.0	3.4	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	522	516	500	500	104.4	103.2		86-115			
1,2-Dichloroethane-d4	522	518	500	500	104.4	103.6		76-114			
Toluene-d8	473	483	500	500	94.6	96.6		88-110			

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/02-01.60**

LCS: 2002/04/02-01.60-010 Extracted: 04/02/2002 11:10 Analyzed: 04/02/2002 11:10

LCSD: 2002/04/02-01.60-044 Extracted: 04/02/2002 11:44 Analyzed: 04/02/2002 11:44

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	19.0	18.7	20.0	20.0	95.0	93.5	1.6	69-129	20		
Chlorobenzene	21.1	21.2	20.0	20.0	105.5	106.0	0.5	61-121	20		
1,1-Dichloroethene	17.9	17.9	20.0	20.0	89.5	89.5	0.0	65-125	20		
Toluene	18.5	18.4	20.0	20.0	92.5	92.0	0.5	70-130	20		
Trichloroethene	17.9	17.9	20.0	20.0	89.5	89.5	0.0	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	526	501	500	500	105.2	100.2		86-115			
1,2-Dichloroethane-d4	506	489	500	500	101.2	97.8		76-114			
Toluene-d8	468	484	500	500	93.6	96.8		88-110			

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/04-01.60**

LCS: 2002/04/04-01.60-058 Extracted: 04/04/2002 11:58 Analyzed: 04/04/2002 11:58

LCSD: 2002/04/04-01.60-032 Extracted: 04/04/2002 12:32 Analyzed: 04/04/2002 12:32

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	19.2	19.1	20.0	20.0	96.0	95.5	0.5	69-129	20		
Chlorobenzene	21.3	20.3	20.0	20.0	106.5	101.5	4.8	61-121	20		
1,1-Dichloroethene	19.1	18.4	20.0	20.0	95.5	92.0	3.7	65-125	20		
Toluene	19.3	18.8	20.0	20.0	96.5	94.0	2.6	70-130	20		
Trichloroethene	18.7	18.5	20.0	20.0	93.5	92.5	1.1	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	507	479	500	500	101.4	95.8		86-115			
1,2-Dichloroethane-d4	473	490	500	500	94.6	98.0		76-114			
Toluene-d8	487	484	500	500	97.4	96.8		88-110			

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Legend & Notes

Test Method: 8260B Prep Method: 5030B

Analysis Flags

o Reporting limits were raised due to high level of analyte present in the sample.

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

URS-Santa Ana	✉ 2020 East 1st St Suite 400 Santa Ana, CA 92705
Attn: Scott Rowlands	Phone: (714) 648-2793 Fax: (714) 667-7147
	Project: Sears Oakland 1039

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	03/27/2002 10:00	1
MW-5	Water	03/27/2002 10:45	2
MW-9	Water	03/27/2002 11:55	3
MW-2	Water	03/27/2002 13:21	4
MW-7	Water	03/27/2002 14:30	6
DUP-1	Water	03/27/2002 15:10	7

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

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Pleasanton, CA 94566

Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID: **MW-4**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0549-001
Received: 03/27/2002 18:20
Extracted: 04/02/2002 13.38
QC-Batch: 2002/04/02-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/03/2002 06:24	
Motor Oil	ND	500	ug/L	1.00	04/03/2002 06:24	
Surrogate(s)						
o-Terphenyl	88.9	60-130	%	1.00	04/03/2002 06:24	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

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Pleasanton, CA 94566

Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID:	**MW-5**	Lab Sample ID:	2002-03-0549-002
Project:	Sears Oakland 1039	Received:	03/27/2002 18:20
		Extracted:	04/02/2002 13:38
Sampled:	03/27/2002 10:45	QC-Batch:	2002/04/02-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	70	50	ug/L	1.00	04/03/2002 07:04	ndp
Motor Oil	ND	500	ug/L	1.00	04/03/2002 07:04	
Surrogate(s)						
o-Terphenyl	100.2	60-130	%	1.00	04/03/2002 07:04	

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

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CA DHS ELAP#1094

Sample ID:	**MW-9**	Lab Sample ID:	2002-03-0549-003
Project:	Sears Oakland 1039	Received:	03/27/2002 18:20
		Extracted:	04/02/2002 13:38
Sampled:	03/27/2002 11:55	QC-Batch:	2002/04/02-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/03/2002 17:42	
Motor Oil	ND	500	ug/L	1.00	04/03/2002 17:42	
Surrogate(s)						
o-Terphenyl	88.6	60-130	%	1.00	04/03/2002 17:42	

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

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CA DHS ELAP#1094

Sample ID:	**MW-2**	Lab Sample ID:	2002-03-0549-004
Project:	Sears Oakland 1039	Received:	03/27/2002 18:20
		Extracted:	04/02/2002 13:38
Sampled:	03/27/2002 13:21	QC-Batch:	2002/04/02-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/03/2002 17:42	
Motor Oil	ND	500	ug/L	1.00	04/03/2002 17:42	
Surrogate(s)						
o-Terphenyl	89.9	60-130	%	1.00	04/03/2002 17:42	

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Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

Sample ID: **MW-7**
Project: Sears Oakland 1039
Sampled: 03/27/2002 14:30
Matrix: Water

Lab Sample ID: 2002-03-0549-006
Received: 03/27/2002 18:20
Extracted: 04/02/2002 13:38
QC-Batch: 2002/04/02-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	570	50	ug/L	1.00	04/03/2002 12:54	ndp
Motor Oil	ND	500	ug/L	1.00	04/03/2002 12:54	
Surrogate(s)						
o-Terphenyl	85.3	60-130	%	1.00	04/03/2002 12:54	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

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Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Sample ID:	**DUP-1**	Lab Sample ID:	2002-03-0549-007
Project:	Sears Oakland 1039	Received:	03/27/2002 18:20
		Extracted:	04/02/2002 13:38
Sampled:	03/27/2002 15:10	QC-Batch:	2002/04/02-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	740	50	ug/L	1.00	04/03/2002 19:09	ndp
Motor Oil	ND	500	ug/L	1.00	04/03/2002 19:09	
Surrogate(s)						
o-Terphenyl	93.2	60-130	%	1.00	04/03/2002 19:09	

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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015 M

Method Blank **Water** **QC Batch # 2002/04/02-02.10**

MB: 2002/04/02-02.10-003

Date Extracted: 04/02/2002 13:38

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/03/2002 05:45	
Motor Oil	ND	500	ug/L	04/03/2002 05:45	
Surrogate(s)					
o-Terphenyl	97.5	60-130	%	04/03/2002 05:45	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Batch QC report

Test Method: 8015M Prep Method: 3510/8015M

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/02-02.10**

LCS: 2002/04/02-02.10-001 Extracted: 04/02/2002 13:38 Analyzed: 04/03/2002 05:45

LCSD: 2002/04/02-02.10-002 Extracted: 04/02/2002 13:38 Analyzed: 04/03/2002 06:24

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1290	1350	1250	1250	103.2	108.0	4.5	60-130	25		
Surrogate(s)											
o-Terphenyl	20.6	21.7	20.0	20.0	103.0	108.3		60-130	0		

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Legend & Notes

Test Method: 8015M

Prep Method: 3510/8015M

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-03-0549

Gasoline

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

URS-Santa Ana	✉ 2020 East 1st St Suite 400 Santa Ana, CA 92705
Attn: Scott Rowlands	Phone: (714) 648-2793 Fax: (714) 667-7147
	Project: Sears Oakland 1039

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	03/27/2002 10:00	1
MW-5	Water	03/27/2002 10:45	2
MW-9	Water	03/27/2002 11:55	3
MW-2	Water	03/27/2002 13:21	4
EB-1	Water	03/27/2002 13:42	5
MW-7	Water	03/27/2002 14:30	6
DUP-1	Water	03/27/2002 15:10	7

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID: **MW-4**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0549-001
Received: 03/27/2002 18:20
Extracted: 04/01/2002 17:37
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/01/2002 17:37	
Surrogate(s)						
4-Bromofluorobenzene-FID	76.5	50-150	%	1.00	04/01/2002 17:37	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID: **MW-5**
Project: Sears Oakland 1039
Sampled: 03/27/2002 10:45
Matrix: Water

Lab Sample ID: 2002-03-0549-002
Received: 03/27/2002 18:20
Extracted: 04/01/2002 18:09
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	81	50	ug/L	1.00	04/01/2002 18:09	g
Surrogate(s)						
4-Bromofluorobenzene-FID	77.7	50-150	%	1.00	04/01/2002 18:09	

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID: **MW-9**
Project: Sears Oakland 1039
Sampled: 03/27/2002 11:55
Matrix: Water

Lab Sample ID: 2002-03-0549-003
Received: 03/27/2002 18:20
Extracted: 04/01/2002 18:41
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/01/2002 18:41	
Surrogate(s)						
4-Bromofluorobenzene-FID	71.8	50-150	%	1.00	04/01/2002 18:41	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID. **MW-2**
Project: Sears Oakland 1039
Sampled: 03/27/2002 13:21
Matrix: Water

Lab Sample ID. 2002-03-0549-004
Received: 03/27/2002 18:20
Extracted: 04/01/2002 19:14
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	2000	500	ug/L	10.00	04/01/2002 19:14	g
Surrogate(s)						
4-Bromofluorobenzene-FID	81.7	50-150	%	10.00	04/01/2002 19:14	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Sample ID: **EB-1**
Project: Sears Oakland 1039
Sampled: 03/27/2002 13:42
Matrix: Water

Lab Sample ID: 2002-03-0549-005
Received: 03/27/2002 18:20
Extracted: 04/01/2002 19:46
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/01/2002 19:46	
Surrogate(s)						
4-Bromofluorobenzene-FID	83.0	50-150	%	1.00	04/01/2002 19:46	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**MW-7**	Lab Sample ID:	2002-03-0549-006
Project:	Sears Oakland 1039	Received:	03/27/2002 18:20
		Extracted:	04/01/2002 20:18
Sampled:	03/27/2002 14:30	QC-Batch:	2002/04/01-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	34000	2500	ug/L	50.00	04/01/2002 20:18	g
Surrogate(s)						
4-Bromofluorobenzene-FID	83.4	50-150	%	50.00	04/01/2002 20:18	

Submission #: 2002-03-0549

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID: **DUP-1**
Project: Sears Oakland 1039
Sampled: 03/27/2002 15:10
Matrix: Water

Lab Sample ID: 2002-03-0549-007
Received: 03/27/2002 18:20
Extracted: 04/01/2002 20:50
QC-Batch: 2002/04/01-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	27000	2500	ug/L	50.00	04/01/2002 20:50	g
Surrogate(s)						
4-Bromofluorobenzene-FID	78.7	50-150	%	50.00	04/01/2002 20:50	

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/04/01-01.05**
MB: 2002/04/01-01.05-002 Date Extracted: 04/01/2002 10:36

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/01/2002 10:36	
Surrogate(s)					
4-Bromofluorobenzene-FID	83.5	50-150	%	04/01/2002 10:36	

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/01-01.05**

LCS: 2002/04/01-01.05-016 Extracted: 04/01/2002 11:08 Analyzed: 04/01/2002 11:08

LCSD: 2002/04/01-01.05-004 Extracted: 04/01/2002 11:40 Analyzed: 04/01/2002 11:40

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	423	477	500	500	84.6	95.4	12.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	432	448	500	500	86.4	89.6		50-150	0		

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CA DHS ELAP#1094

Gasoline

Legend & Notes

Test Method: 8015M Prep Method: 5030

Analyte Flags

g Hydrocarbon reported in the gasoline range does not match our gasoline standard

Chain of Custody Record

65527

2002-03-0549

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: UES Corp	Project Manager: Scott Rowlands	Date: 3/27/02	Chain of Custody Number: 050231
Address: 2020 East 1st Street	Telephone Number (Area Code)/Fax Number: (714) 835-6886	Lab Number:	Page 1 of 1
City: Santa Ana / State: Ca / Zip Code: 92705	Site Contact: Joe Lyles	Lab Contact: Asbeck	
Project Name and Location (State): Sears Oakland 1039	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: BOISM TPH-d	BOISM TPH-o	BOISM TPHg	8260 VOCs	Special Instructions/ Conditions of Receipt
MW-4	3/27/02	1000		X			2						X	X			Full List VOCs
MW-4	3/27/02	1000		X			6			6					X	X	~~MEK~~
MW-5	3/27/02	1045		X			2						X	X			
MW-5	3/27/02	1045		X			6			6					X	X	
MW-9	3/27/02	1155		X			2						X	X			
MW-9	3/27/02	1155		X						6					X	X	
MW-2	3/27/02	1321		X			2						X	X			
MW-2	3/27/02	1321		X						6					X	X	
EB-1	3/27/02	1342		X						6					X	X	
MW-7	3/27/02	1430		X			2						X	X			5.9°C
MW-7	3/27/02	1430		X						6					X	X	
Dup1	3/27/02	1510		X			2						X	X			
Dup1	3/27/02	1510		X						6					X	X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Normal Seats

QC Requirements (Specify)

1 Relinquished By	Date: 3/27/02	Time:	1 Received By: Robert L. Atkins	Date: 3/27	Time: 4:3
2 Relinquished By: Robert Atkins	Date: 3/27/02	Time: 18:20	2. Received By: D. Harrington STL-SF	Date: 3/27/02	Time: 18:20
3 Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report, PINK - Field Copy

Submission #: 2002-03-0572

Date: April 5, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

URS-Santa Ana
2020 East 1st St Suite 400
Santa Ana, CA 92705

Attn: Scott Rowlands

Project: Sears 1039

Attached is our report for your samples received on Thursday March 28, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after May 12, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour
Project Manager

Submission #: 2002-03-0572

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

URS-Santa Ana	✉ 2020 East 1st St Suite 400 Santa Ana, CA 92705
Attn: Scott Rowlands	Phone: (714) 648-2793 Fax: (714) 667-7147
	Project: Sears 1039

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	03/28/2002 10:00	1

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-1**
Project: Sears 1039
Sampled: 03/28/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0572-001
Received: 03/28/2002 16:55
Extracted: 04/03/2002 17:53
QC-Batch: 2002/04/03-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	04/03/2002 17:53	
Acetone	ND	50	ug/L	1.00	04/03/2002 17:53	
Benzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Bromodichloromethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Bromobenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Bromochloromethane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Bromoform	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Bromomethane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
2-Butanone(MEK)	ND	50	ug/L	1.00	04/03/2002 17:53	
n-Butylbenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
sec-Butylbenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
tert-Butylbenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Carbon disulfide	ND	5.0	ug/L	1.00	04/03/2002 17:53	
Carbon tetrachloride	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Chlorobenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Chloroethane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	04/03/2002 17:53	
Chloroform	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Chloromethane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
2-Chlorotoluene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
4-Chlorotoluene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Dibromochloromethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Dibromomethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	04/03/2002 17:53	

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Sample ID: **MW-1**
Project: Sears 1039
Sampled: 03/28/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0572-001
Received: 03/28/2002 16:55
Extracted: 04/03/2002 17:53
QC-Batch: 2002/04/03-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
2-Hexanone	ND	50	ug/L	1.00	04/03/2002 17:53	
Isopropylbenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Methylene chloride	ND	5.0	ug/L	1.00	04/03/2002 17:53	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	04/03/2002 17:53	
Naphthalene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
n-Propylbenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Styrene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Tetrachloroethene	24	0.50	ug/L	1.00	04/03/2002 17:53	
Toluene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	04/03/2002 17:53	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Trichloroethene	1.1	0.50	ug/L	1.00	04/03/2002 17:53	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Vinyl acetate	ND	25	ug/L	1.00	04/03/2002 17:53	
Vinyl chloride	ND	0.50	ug/L	1.00	04/03/2002 17:53	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2002 17:53	
Surrogate(s)						
4-Bromofluorobenzene	101.7	86-115	%	1.00	04/03/2002 17:53	
1,2-Dichloroethane-d4	99.4	76-114	%	1.00	04/03/2002 17:53	
Toluene-d8	100.3	88-110	%	1.00	04/03/2002 17:53	

SEVERN TRENT SERVICES

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Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/03-01.07**

MB: 2002/04/03-01.07-004 Date Extracted: 04/03/2002 12:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	04/03/2002 12:37	
Acetone	ND	50	ug/L	04/03/2002 12:37	
Benzene	ND	0.5	ug/L	04/03/2002 12:37	
Bromodichloromethane	ND	0.5	ug/L	04/03/2002 12:37	
Bromobenzene	ND	1.0	ug/L	04/03/2002 12:37	
Bromochloromethane	ND	1.0	ug/L	04/03/2002 12:37	
Bromoform	ND	0.5	ug/L	04/03/2002 12:37	
Bromomethane	ND	1.0	ug/L	04/03/2002 12:37	
2-Butanone(MEK)	ND	50	ug/L	04/03/2002 12:37	
n-Butylbenzene	ND	1.0	ug/L	04/03/2002 12:37	
sec-Butylbenzene	ND	1.0	ug/L	04/03/2002 12:37	
tert-Butylbenzene	ND	1.0	ug/L	04/03/2002 12:37	
Carbon disulfide	ND	5.0	ug/L	04/03/2002 12:37	
Carbon tetrachloride	ND	0.5	ug/L	04/03/2002 12:37	
Chlorobenzene	ND	0.5	ug/L	04/03/2002 12:37	
Chloroethane	ND	1.0	ug/L	04/03/2002 12:37	
2-Chloroethylvinyl ether	ND	5.0	ug/L	04/03/2002 12:37	
Chloroform	ND	1.0	ug/L	04/03/2002 12:37	
Chloromethane	ND	1.0	ug/L	04/03/2002 12:37	
2-Chlorotoluene	ND	0.5	ug/L	04/03/2002 12:37	
4-Chlorotoluene	ND	0.5	ug/L	04/03/2002 12:37	
Dibromochloromethane	ND	0.5	ug/L	04/03/2002 12:37	
1,2-Dichlorobenzene	ND	0.5	ug/L	04/03/2002 12:37	
1,3-Dichlorobenzene	ND	0.5	ug/L	04/03/2002 12:37	
1,4-Dichlorobenzene	ND	0.5	ug/L	04/03/2002 12:37	
1,3-Dichloropropane	ND	1.0	ug/L	04/03/2002 12:37	
2,2-Dichloropropane	ND	0.5	ug/L	04/03/2002 12:37	
1,1-Dichloropropene	ND	0.5	ug/L	04/03/2002 12:37	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	04/03/2002 12:37	
1,2-Dibromoethane	ND	0.5	ug/L	04/03/2002 12:37	
Dibromomethane	ND	0.5	ug/L	04/03/2002 12:37	
Dichlorodifluoromethane	ND	0.5	ug/L	04/03/2002 12:37	
1,1-Dichloroethane	ND	0.5	ug/L	04/03/2002 12:37	
1,2-Dichloroethane	ND	0.5	ug/L	04/03/2002 12:37	
1,1-Dichloroethene	ND	0.5	ug/L	04/03/2002 12:37	
cis-1,2-Dichloroethene	ND	0.5	ug/L	04/03/2002 12:37	
trans-1,2-Dichloroethene	ND	0.5	ug/L	04/03/2002 12:37	
1,2-Dichloropropane	ND	0.5	ug/L	04/03/2002 12:37	
cis-1,3-Dichloropropene	ND	0.5	ug/L	04/03/2002 12:37	
trans-1,3-Dichloropropene	ND	0.5	ug/L	04/03/2002 12:37	
Ethylbenzene	ND	0.5	ug/L	04/03/2002 12:37	

SEVERN TRENT SERVICES

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1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/04/03-01.07**

MB: 2002/04/03-01.07-004 Date Extracted: 04/03/2002 12:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	04/03/2002 12:37	
2-Hexanone	ND	50	ug/L	04/03/2002 12:37	
Isopropylbenzene	ND	0.5	ug/L	04/03/2002 12:37	
p-Isopropyltoluene	ND	1.0	ug/L	04/03/2002 12:37	
Methylene chloride	ND	5.0	ug/L	04/03/2002 12:37	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	04/03/2002 12:37	
Naphthalene	ND	1.0	ug/L	04/03/2002 12:37	
n-Propylbenzene	ND	1.0	ug/L	04/03/2002 12:37	
Styrene	ND	0.5	ug/L	04/03/2002 12:37	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	04/03/2002 12:37	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	04/03/2002 12:37	
Tetrachloroethene	ND	0.5	ug/L	04/03/2002 12:37	
Toluene	ND	0.5	ug/L	04/03/2002 12:37	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	04/03/2002 12:37	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	04/03/2002 12:37	
1,1,1-Trichloroethane	ND	0.5	ug/L	04/03/2002 12:37	
1,1,2-Trichloroethane	ND	0.5	ug/L	04/03/2002 12:37	
Trichloroethene	ND	0.5	ug/L	04/03/2002 12:37	
Trichlorofluoromethane	ND	1.0	ug/L	04/03/2002 12:37	
Trichlorotrifluoroethane	ND	0.5	ug/L	04/03/2002 12:37	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	04/03/2002 12.37	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	04/03/2002 12:37	
Vinyl acetate	ND	25	ug/L	04/03/2002 12:37	
Vinyl chloride	ND	0.5	ug/L	04/03/2002 12:37	
Total xylenes	ND	1.0	ug/L	04/03/2002 12:37	
Surrogate(s)					
4-Bromofluorobenzene	94.3	86-115	%	04/03/2002 12:37	
1,2-Dichloroethane-d4	86.2	76-114	%	04/03/2002 12:37	
Toluene-d8	92.7	88-110	%	04/03/2002 12:37	

Submission #: 2002-03-0572

SEVERN TRENT SERVICES

Total Extractable Petroleum Hydrocarbons (TEPH)

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 3510/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **MW-1**
Project: Sears 1039
Sampled: 03/28/2002 10:00
Matrix. Water

Lab Sample ID: 2002-03-0572-001
Received: 03/28/2002 16:55
Extracted: 04/02/2002 13:38
QC-Batch: 2002/04/02-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	77	50	ug/L	1.00	04/03/2002 18:31	ndp
Motor Oil	ND	500	ug/L	1.00	04/03/2002 18:31	
Surrogate(s)						
o-Terphenyl	96.5	60-130	%	1.00	04/03/2002 18:31	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015 M

Method Blank | **Water** | **QC Batch # 2002/04/02-02.10**

MB: 2002/04/02-02.10-003

Date Extracted: 04/02/2002 13:38

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/03/2002 05:45	
Motor Oil	ND	500	ug/L	04/03/2002 05:45	
Surrogate(s)					
o-Terphenyl	97.5	60-130	%	04/03/2002 05:45	

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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Batch QC report

Test Method: 8015M Prep Method: 3510/8015M

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/02-02.10**

LCS: 2002/04/02-02.10-001 Extracted: 04/02/2002 13:38 Analyzed: 04/03/2002 05:45

LCSD: 2002/04/02-02.10-002 Extracted: 04/02/2002 13:38 Analyzed: 04/03/2002 06:24

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	1290	1350	1250	1250	103.2	108.0	4.5	60-130	25		
Surrogate(s)											
o-Terphenyl	20.6	21.7	20.0	20.0	103.0	108.3		60-130	0		

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Fax 925 484 1096
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CA DHS ELAP#1094

Total Extractable Petroleum Hydrocarbons (TEPH)

Legend & Notes

Test Method: 8015M

Prep Method: 3510/8015M

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-03-0572

Gasoline

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

URS-Santa Ana	✉ 2020 East 1st St Suite 400 Santa Ana, CA 92705
Attn: Scott Rowlands	Phone: (714) 648-2793 Fax: (714) 667-7147
	Project: Sears 1039

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	03/28/2002 10:00	1

Submission #: 2002-03-0572

SEVERN TRENT SERVICES

Gasoline

URS-Santa Ana
Attn: Scott Rowlands

Test Method: 8015M
Prep Method: 5030

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Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Sample ID: **MW-1**
Project: Sears 1039
Sampled: 03/28/2002 10:00
Matrix: Water

Lab Sample ID: 2002-03-0572-001
Received: 03/28/2002 16:55
Extracted: 04/03/2002 18:09
QC-Batch: 2002/04/03-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/03/2002 18:09	
Surrogate(s)						
4-Bromofluorobenzene-FID	82.1	50-150	%	1.00	04/03/2002 18:09	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/04/03-01.05**

MB: 2002/04/03-01.05-004 Date Extracted: 04/03/2002 08:21

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/03/2002 08:21	
Surrogate(s)					
4-Bromofluorobenzene-FID	83.4	50-150	%	04/03/2002 08:21	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/04/03-01.05**

LCS: 2002/04/03-01.05-002 Extracted: 04/03/2002 07:17 Analyzed: 04/03/2002 07:17

LCSD: 2002/04/03-01.05-003 Extracted: 04/03/2002 07:49 Analyzed: 04/03/2002 07:49

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	518	513	500	500	103.6	102.6	1.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	465	481	500	500	93.0	96.2		50-150			

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gasoline

Batch QC Report

Test Method: 8015M Prep Method: 5030

Matrix Spike (MS / MSD) **Water** **QC Batch # 2002/04/03-01.05**

Sample ID: **MW-1 >> MS** Lab ID: 2002-03-0572-001

MS: 2002/04/03-01.05-016 Extracted: 04/03/2002 21:53 Analyzed: 04/03/2002 21:53
Dilution: 1

MSD: 2002/04/03-01.05-017 Extracted: 04/03/2002 22:25 Analyzed: 04/03/2002 22:25
Dilution: 1

Compound	Conc. [ug/L]			Exp.Conc [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	460	464	ND	500	500	92.0	92.8	0.9	65-135	20		
Surrogate(s)												
4-Bromofluoroben	412	417		500	500	82.4	83.3		50-150			

Sears 1037

SEVERN TRENT SERVICES

Sample Receipt Checklist

STL San Francisco

Client Name: IRS - Santa Ana Date/Time Received: 3/28/02 @ (Date / Time)

Reference/Subm #: 2002-03-0572 Received by: Denise Harrington

Checklist completed by: Denise Harrington 3/29/02 (Signature / Date) Reviewed By: _____ (Initial/Date)

Matrix: ☐ Soil ☒ Water ☐ Other _____ Carrier name: Client – STL SF - _____

Shipping container/cooler in good condition?	Yes___ No___	Not Present___
Custody seals intact on shipping container/cooler?	Yes___ No___	Not Present___
Custody seals intact on sample bottles?	Yes___ No___	Not Present___
Chain of custody present?	Yes___ No___	
Chain of custody signed when relinquished and received?	Yes___ No___	
Chain of custody agrees with sample labels?	Yes___ No___	
Samples in proper container/bottle?	Yes___ No___	
Sample containers intact?	Yes___ No___	
Sufficient sample volume for indicated test?	Yes___ No___	
All samples received within holding time?	Yes___ No___	
Container/Temp Blank temperature in compliance?	Temp:___°C Yes___ No___	
Water - VOA vials have zero headspace?	No VOA vials submitted___ Yes___ No___	

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No ☐ Checked by VOA chemist

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc **Lot#**(s)_____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

==========

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: Sample labeled MW-1, sampled 3/27/02 @ 0834 logged in per COC. No sample MW-4 for this project #. Rec'd packed in cooler separate from Sears-1058.

Corrective Action: _____

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

2002-03-0572

STL-4124 (0700)

Client: URS Corp	Project Manager: Scott Rowlands	Date: 3/28/02	Chain of Custody Number: 050232
Address: 2020 East 1st Street	Telephone Number (Area Code)/Fax Number: (714) 835-6886	Lab Number	Page 1 of 1
City: Santa Ana / State: Ca / Zip Code: 92705	Site Contact: Joe	Lab Contact: Afsaneh	
Project Name and Location (State): Sears 1039	Carrier/Waybill Number		
Contract/Purchase Order/Quote No			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8015 TPHd	8015 TPHg	8260 VOA	Special Instructions/ Conditions of Receipt
MW-4	3/28/02	1000		X			2						X	X		
MW-4	3/28/02	1000		X						6				X	X	3.1°C

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [ ] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other Normal/Sears

QC Requirements (Specify)

	Date	Time		Date	Time
1 Relinquished By	3/28/02	1456	1. Received By: 595 Mike - World Courier	03/28/02	1415
2. Relinquished By: 595 Mike			2 Received By		
3 Relinquished By			3 Received By: Denise Harrington STL-SF	3/28/02	1600

Comments

DISTRIBUTION: WHITE - Stays with the Sample, CANARY - Returned to Client with Report, PINK - Field Copy

APPENDIX C

URS DATA VALIDATION REPORTS

Level III Data Validation Summary

PROJECT: Sears Oakland 1039
LABORATORY: Severn Trent Laboratories, Inc. (STL - San Francisco)
MATRIX: Groundwater
LAB PROJECT #: 2002-03-0572
SAMPLES: See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TEPH-Diesel, TEPH-Motor Oil	VOCs
MW-1		2002-03-0572-1	X	X	X

VOCs = Volatile Organic Compounds
TPH= Total Petroleum Hydrocarbons
TEPH = Total Extractable Petroleum Hydrocarbons
STL – San Francisco is certified by California Department of Health Services (Certificate Number 1094)

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline EPA 5030/8015M	TEPH-Diesel, TEPH-Motor Oil 3510/8015M	VOCs EPA 5030B/8260B
Chain-of-custody (COC)	✓	✓ (1)	✓
Sample Receipt	✓	✓	✓
Holding Times	✓	✓	✓
Method Blank	✓	✓	✓
Surrogate Recovery	✓	✓	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	✓	NR	NR
Duplicate or Spike Duplicate	✓	NR	NR
Field Duplicate	NC	NC	NC
Trip Blank /Equipment Blank	NC /NC	NC /NC	NC /NC

✓ = Quality control evaluation criteria were met
Laboratory control samples were prepared in duplicate
NA = Not Applicable or Not Analyzed NR = None Reported or Not Requested NP = Not Provided NC = Not Collected

Notes:
1. The case narrative indicated that the hydrocarbon reported in the diesel range did not match the pattern of laboratory's diesel standard.

Summary: Based on this Level III validation covering the QC parameters listed in the table above, these data are considered to be useable for meeting project objectives without qualification. However, the data user must evaluate the ultimate usability of the data obtained based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted sample.

Analyte	Detection Limits Obtained
Gasoline Range TPH	50
Diesel Range TEPH	50
Motor Oil Range TEPH	500
VOCs	0.5 to 50
MTBE	5

Aqueous units are micrograms per liter (µg/L)

Sample did not require dilution for the analyses performed.

Level III Data Validation Summary

PROJECT: Sears Oakland 1039
LABORATORY: Severn Trent Laboratories, Inc. (STL - San Francisco)
MATRIX: Groundwater
LAB PROJECT #: 2002-03-0549
SAMPLES: See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TEPH-Diesel, TEPH-Motor Oil	VOCs
MW-4		2002-03-0549-1	X	X	X
MW-5		2002-03-0549-2	X	X	X
MW-9		2002-03-0549-3	X	X	X
MW-2		2002-03-0549-4	X	X	X
EB-1	Equipment blank	2002-03-0549-5	X		X
MW-7		2002-03-0549-6	X	X	X
Dup 1	Field Duplicate of MW-7	2002-03-0549-7	X	X	X

VOCs = Volatile Organic Compounds
TPH= Total Petroleum Hydrocarbons
TEPH = Total Extractable Petroleum Hydrocarbons
STL – San Francisco is certified by California Department of Health Services (Certificate Number 1094)

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline EPA 5030/8015M	TEPH-Diesel, TEPH-Motor Oil 3510/8015M	VOCs EPA 5030B/8260B
Chain-of-custody (COC)	✓ (1)	✓ (2)	✓
Sample Receipt	✓	✓	✓
Holding Times	✓	✓	✓
Method Blank	✓	✓	✓
Surrogate Recovery	✓	✓	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	NR	NR	NR
Duplicate or Spike Duplicate	NR	NR	NR
Field Duplicate	✓	✓	✓
Equipment Blank	✓	NC	✓
Trip Blank	NC	NC	NC

✓ = Quality control evaluation criteria were met
Laboratory control samples were prepared in duplicate
NA = Not Applicable or Not Analyzed NR = None Reported or Not Requested NP = Not Provided NC = Not Collected

Notes:

1. The case narrative indicated that the hydrocarbon reported in the gasoline range did not match laboratory's gasoline standard.
2. The case narrative indicated that the hydrocarbon reported in the diesel range did not match the pattern of laboratory's diesel standard.

Summary: Based on this Level III validation covering the QC parameters listed in the table above, these data are considered to be useable for meeting project objectives without qualification. However, the data user must evaluate the ultimate usability of the data obtained based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted samples.

Analyte	Detection Limits Obtained
Gasoline Range TPH	50
Diesel Range TEPH	50
Motor Oil Range TEPH	500
VOCs	0.5 to 50
MTBE	5

Aqueous units are micrograms per liter (µg /L).

Three samples (MW-2, MW-7, Dup 1) required dilution for the 8260B analysis in order to quantitate detected target analytes. For these samples, there are also non-detect volatile organic compounds with elevated reporting limits. The data user must evaluate the utility of non-detect VOC results with elevated reporting limits.