URS

2003 THIRD QUARTER
GROUNDWATER MONITORING REPORT
FORMER SEARS RETAIL CENTER #1039
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
CASE I.D. # STID 1630
FOR SEARS, ROEBUCK & CO.

URS Job No. 29863493
December 10, 2003

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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 2003 Third 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 nine monitoring wells (MW-1 through 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 Services (ACEHS) pursuant to quarterly monitoring and reporting requirements under Title 23, Division 3, Chapter 16 of the California Code of Regulations.

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). A Sears Auto Center, a former Chevron Service Station, a three-story above-grade-parking garage, and a paved parking lot occupy the property.

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, which primarily consists of silts and clays overlying a basal gravel unit. (California Regional Water Quality Control Board [RWQCB], 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 due to "readily available high quality imported surface water" (RWQCB, June 1999). Alameda County Well permit applications indicated 91% of groundwater wells within the basin are used for "backyard" or commercial irrigation, 8.6% of the wells are used for industrial process water, and 0.4% are used for drinking water supply (RWQCB, June 1999).

3.0 BACKGROUND

The Site consists of a Sears Auto Center, a multiple level parking structure, a paved parking lot, and a former Chevron Service Station. The Sears Auto Center is currently in operation; it is a converted former Goodyear Tire Center. Three gasoline underground storage tanks (USTs) and a used oil UST were installed at the former Chevron Service Station. On January 29, 1988, prior to Sears' ownership of the Site, one 3,000 gallon gasoline UST, one 5,000 gallon gasoline UST, one 7,000 gallon gasoline UST, and one 500 gallon used oil UST were removed under oversight of the Oakland Fire Department and the ACEHS. Approximately 20 to 30 cubic yards of gasoline impacted soil was removed from the "south area" of the gasoline USTs excavation and subsequently disposed at a Class I landfill in Buttonwillow, California. Following excavation, residual concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene in soil were below 100 mg/kg and 0.7 mg/kg, respectively. The UST excavations were subsequently backfilled with imported crushed rock and "clean excavated material" (Dames & Moore, 1988).

A total of 9 groundwater monitoring wells (MW-1 through 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 (The IT Group, February 2000).

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 basis 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 TPHg and dissolved phase benzene have been detected in 5 of 9 wells. Available historical groundwater data (since October 1995); including depth to water, groundwater elevation, hydrocarbon and volatile organic compounds (VOCs) concentrations; are summarized in Appendix B.

4.0 HEALTH AND SAFETY PLAN

Prior to initiating the field activities, URS prepared a site-specific Health & Safety (H&S) Plan to:

- Identify and describe potentially hazardous substances which may be encountered during field operations;
- Specify protective equipment and clothing for onsite activities;
- Outline measures to be implemented in the event of an emergency.

URS field personnel reviewed the H&S Plan prior to commencing the field procedures. Field monitoring activities were recorded in the H&S Plan and were maintained in the project files at URS's Santa Ana office. A copy of the H&S Plan remained onsite during field operations.

5.0 QUARTERLY GROUNDWATER MONITORING

The 2003 Third Quarter Groundwater Monitoring was performed on September 25th, 2003. The monitoring consisted of groundwater gauging, purging, and sampling of all nine wells (MW-1 through MW-9). A description of the monitoring procedures is presented in the following section.

5.1 GROUNDWATER GAUGING

Prior to gauging, the groundwater monitoring wells were checked for the presence of separate phase product using a product interface probe. Separate phase product was not observed in any of the wells. Water levels in each well were measured using a Solinst™ water level indicator relative to a defined measuring point on the surveyed top of casing. Water level data was recorded to the nearest 0.01 foot. Groundwater depths and elevations for the 2003 third quarter are listed in Table 1 and Appendix B.

5.2 PURGING AND SAMPLING METHODS

Prior to sample collection, wells were purged of approximately three well casing volumes using a Grundfos™ RediFlo 2 submersible well pump. Water purged from each well was monitored for various field parameters including temperature, pH, turbidity, electrical conductivity, dissolved oxygen (DO), and oxygen reduction potential (ORP) using a YSI™ multi-parameter meter equipped with a flow through cell. Purging continued until temperature, pH, and conductivity had stabilized. The stabilized field parameters are listed in Table 1.

Groundwater samples were collected from nine monitoring wells for laboratory analysis during the 2003 Third Quarter Groundwater Monitoring event. Groundwater samples were collected from the discharge tubing of the well pump following well purging. The Grundfos RediFlo 2™ submersible well pump was cleaned prior to use (and between wells) by washing in a solution of Alconox, rinsing with tap water, final rinsing with deionized water, and air drying. Pre-cleaned, disposable, polyethylene discharge tubing was attached to the pump following each decontamination and was changed between each well purging event. A blind duplicate was collected from well MW-2 and labeled DUP-1. One equipment blank sample (EB-1) was collected by pumping deionized water through the pump into sample containers following decontamination procedures.

Sample containers and handling procedures for groundwater samples conformed to the established protocols for each specific parameter as described in EPA SW-846. The sample bottles, once filled and preserved as required, were properly labeled and logged on a chain of custody form. The label included well identification number, sample number, date and time sampled, job number, site/client name and location, and sampling personnel's initials. The sealed and labeled samples were placed in an ice chest, maintained at a temperature of 4 degrees centigrade, and transported to Southland Technical Services, Inc. (STS), a California Department of Health Services (CDHS) accredited laboratory for analysis. Chain-of-custody records were maintained throughout the sampling program.

5.3 LABORATORY ANALYSIS PROGRAM

All groundwater samples and duplicates were analyzed by STS for TPHg by modified EPA Method 8015M. Groundwater samples were also analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and the fuel oxygenates Methyl tert-Butyl Ether (MTBE), Di-isopropyl Ether (DIPE), Ethyl tert-butyl Ether (ETBE), tert-Amyl Methyl Ether (TAME), tert-Butanol (TBA), and other VOCs by EPA Method 8260B.

5.4 WELL HEAD MAINTENANCE

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

Well purge water was collected and stored in two 55-gallon DOT-approved drums. Containers were labeled to identify the source of the wastes and individually numbered. The containers were stored onsite and properly disposed of by a licensed waste transporter under contract with Sears, Roebuck & Co., following review of the chemical analysis data.

6.0 FINDINGS

6.1 SHALLOW GROUNDWATER CONDITIONS

The measured depth to water ranged from 13.45 feet to 17.39 feet bgs or approximately 2.93 feet to 5.67 feet above mean sea level (msl) during the 2003 Third Quarter Groundwater Monitoring event. Groundwater elevation has decreased an average of 0.67 feet since the 2003 Second Quarter Monitoring event. Groundwater depths and elevations are listed in Table 1 and Appendix B. An interpretive groundwater elevation contour map, based on the 2003 third quarter groundwater level measurements, is provided as Figure 3. Groundwater elevation contours for the Site were generated by 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 groundwater samples collected from wells MW-2 and MW-7 with concentrations of 180 micrograms per liter (µg/L) and 23,800 µg/L, respectively. Benzene was detected in samples collected from monitoring wells MW-2, MW-4, and MW-7 with concentrations ranging from 1.6 µg/L to 14,300 µg/L.

Various chlorinated VOCs including tetrachloroethene (PCE), trichloroethene (TCE) and 1,2-dichloroethane (1,2-DCA) were detected in the groundwater samples collected from wells MW-1, MW-2, MW-3, MW-8, and MW-9. PCE was detected in wells MW-1, MW-3, MW-8, and MW-9 with concentrations ranging from 4.7 µg/L to 46.5 µg/L. TCE was detected in wells MW-1, MW-2, MW-3 and MW-9 with concentrations ranging from 6.2 µg/L to 14.0µg/L. 1,2-DCA was detected in wells MW-2 and MW-9 at concentrations of 9.8 µg/L and 11.7µg/L, respectively.

Chemical analysis results of the 2003 Third Quarter Groundwater Monitoring are presented in Table 2. A copy of the laboratory reports and chain-of-custody records are included in Appendix C. Groundwater isoconcentration maps for TPHg and Benzene for the 2003 third 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 considered to be useable for meeting project objectives." A copy of URS' Data Validation Reports is included in Appendix D.

7.0 DISCUSSION

The 2003 Third Quarter Groundwater Monitoring event represents the 32nd groundwater-sampling event conducted at the Site. Groundwater elevations have decreased approximately 0.67 feet since the last sampling event conducted in June 2003. Groundwater flow direction is towards the east with a gradient of 0.01, which is consistent with previous monitoring events. TPHg was detected in two of the nine monitoring wells sampled with concentrations up to 23,800 µg/L. Benzene was detected in three of nine monitoring wells sampled with concentrations up to 14,300µg/L. The suspected source is the former gasoline USTs and fuel dispensing area of the former Chevron station located near the central portion of the Site.

Chlorinated VOCs have been detected in both the upgradient well MW-1 as well as the downgradient well MW-9 during this, and previous, groundwater sampling events. Potential onsite sources of chlorinated VOCs 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 the long axis trending southeast with a length of approximately 220 feet, and the short axis trending northeast with a length of approximately 130 feet. The plume is defined by the existing monitoring well network and is limited to the Site. Although TPHg and benzene concentrations have increased in well MW-7 since 1995, they have remained relatively stable during the last year. In addition, monitoring data collected during the last year suggests that the dissolved phase TPHg and BTEX plume is stable and is not migrating laterally or further down gradient.

8.0 SCHEDULE

The schedule for work to be conducted during the following quarter is as follows:

- Quarterly groundwater monitoring of wells MW-1 through MW-9: December 2003,
- Submittal of 2003 Fourth Quarter Groundwater Monitoring Report to ACEHS: February 2004,

ACEHS will be notified of upcoming field activities.

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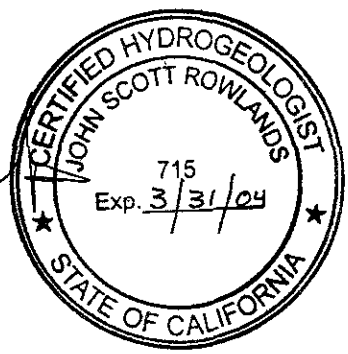
Should you have any questions or comments, please do not hesitate to contact us.

Respectfully Submitted,

URS CORPORATION

Joseph Liles
Senior Staff Geologist

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



9.0 REFERENCES

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URS Corporation, 2003. *2002 Fourth Quarter Groundwater Monitoring,* Former Sears Retail Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, February 25.

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TABLES

Table 1
2003 3rd Quarter Groundwater Levels and Parameters
Sears Retail Center Store No. 1039
Oakland, California

Monitoring Well No.	Date Collected	Notes	GROUNDWATER LEVELS				GROUNDWATER SAMPLING FIELD PARAMETERS					
			Product Thickness (ft)	Depth to Groundwater (feet bgs)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Conductivity (µS/cm)	O.R.P. (mV)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-1	9/25/2003	--	0.0	15.32	20.99	5.67	20.59	6.26	837	167.2	13.7	0.23
MW-2	9/25/2003	--	0.0	15.13	20.50	5.37	22.34	6.44	1690	-51.3	0.0	0.68
MW-3	9/25/2003	--	0.0	17.13	22.29	5.16	22.31	6.23	686	168.7	2.7	0.14
MW-4	9/25/2003	--	0.0	13.67	18.61	4.94	22.45	6.61	1687	-36.1	1.9	0.64
MW-5	9/25/2003	--	0.0	13.45	18.76	5.31	22.34	6.67	1780	-135.6	169.6	0.63
MW-6	9/25/2003	--	0.0	14.89	18.91	4.02	22.58	6.43	1688	138.7	1.9	0.58
MW-7	9/25/2003	--	0.0	16.34	20.39	4.05	22.49	6.49	946	-104.4	13.8	0.27
MW-8	9/25/2003	--	0.0	17.39	21.12	3.73	21.99	6.40	513	145.8	32.0	0.19
MW-9	9/25/2003	--	0.0	16.27	19.20	2.93	22.72	6.50	1028	147.2	18.8	0.29

Notes:
MSL - Mean Sea Level
BGS - Below ground surface
Groundwater Elevation reference to MSL
Groundwater Elevation = Top of casing elevation - Depth to Water

µS/cm - microSiemens per centimeter
mV - millivolt
mg/L - milligrams per liter
NTU - nephelometric turbidity units
O.R.P. - Oxygen Reduction Potential

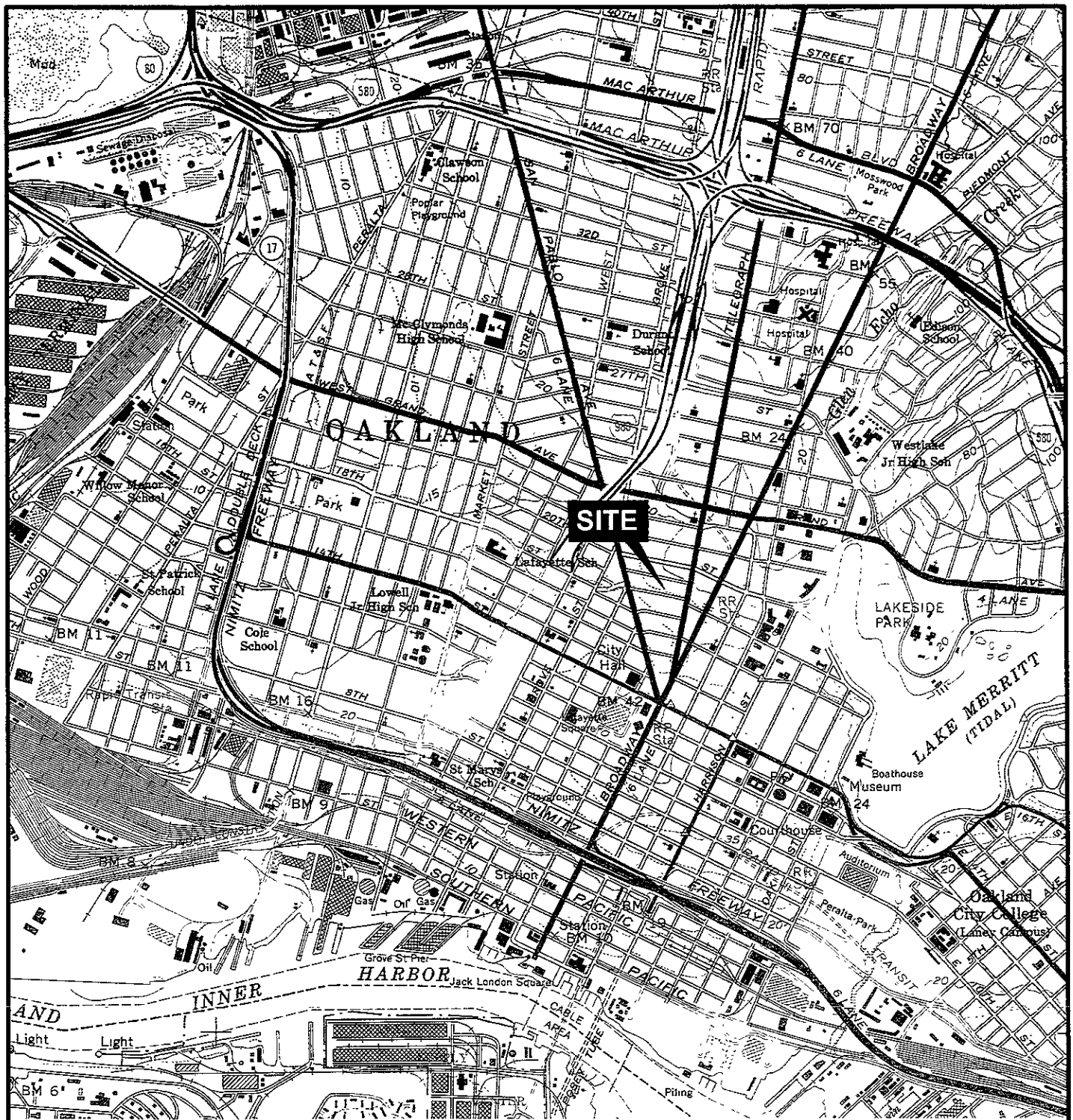
Table 2
2003 3rd Quarter Groundwater Analytical Results
Sears Retail Center Store No. 1039
Oakland, California

Monitoring Well No.	Sample Date	LABORATORY ANALYTICAL RESULTS															
		by EPA 8015M	Volatile Organic Compounds by GC/MS EPA 8260B														
		Notes	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	PCE (µg/L)	TCE (µg/L)	1,2-DCA (µg/L)
MW-1	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	**46.5**	**6.2**	< 5
MW-2	9/25/2003	--	**180**	**23.7**	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	**6.8**	**9.8**
	9/25/2003	1	**184**	**24.5**	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	**7.8**	**9.1**
MW-3	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	**32.6**	**14.0**	< 5
MW-4	9/25/2003	--	< 50	**1.6**	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	< 2.5	< 5
MW-5	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	< 2.5	< 5
MW-6	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	< 2.5	< 5
MW-7	9/25/2003	--	**23,800**	**14,300**	**140**	**554**	**752**	< 2	< 2	< 2	< 2	< 10	< 2.5	< 2.5	< 5
MW-8	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	**4.7**	< 2.5	< 5
MW-9	9/25/2003	--	< 50	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	**25.2**	**9.7**	**11.7**

Notes:

1: Duplicate sample
< - Analyte not detected above indicated method detection limit
BTEX = Volatile aromatic constituents Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8260B
TPHg = Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified)
MTBE - Methyl tertiary-butyl ether
DIPE - Di-isopropyl Ether
TAME - Tertiary Amyl Methyl Ether
TBA - Tertiary Butyl Alcohol
ETBE - Ethyl Tertiary Butyl Ether
PCE - Tetrachloroethane
TCE - Trichloroethene
1,2-DCA - 1,2-Dichloroethane

FIGURES



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

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

L:/sears/topo #1039 fh10 8/02

Williams Street

MW-05
MW-04
MW-02
MW-06
Canopy
Former Chevron Station
Former Waste Oil UST Location
Removed Dispensers
Vent Pipes
Parking Garage
MW-09
MW-01
MW-07
Former Gasoline UST Locations
Sears Auto Center Service Bay
Show Room
MW-08
MW-03
Used Tire Storage Area
Stock Room
San Pablo Avenue
Telegraph Avenue
19th Street

N

0 25 50
Scale in Feet

EXPLANATION

MW-15 **MONITORING WELL LOCATION**

PLOT PLAN

Project: SEARS AUTO CENTER #1039,
1901-1911 TELEGRAPH AVE., OAKLAND, CA

Project No.: 29863493

Figure 2

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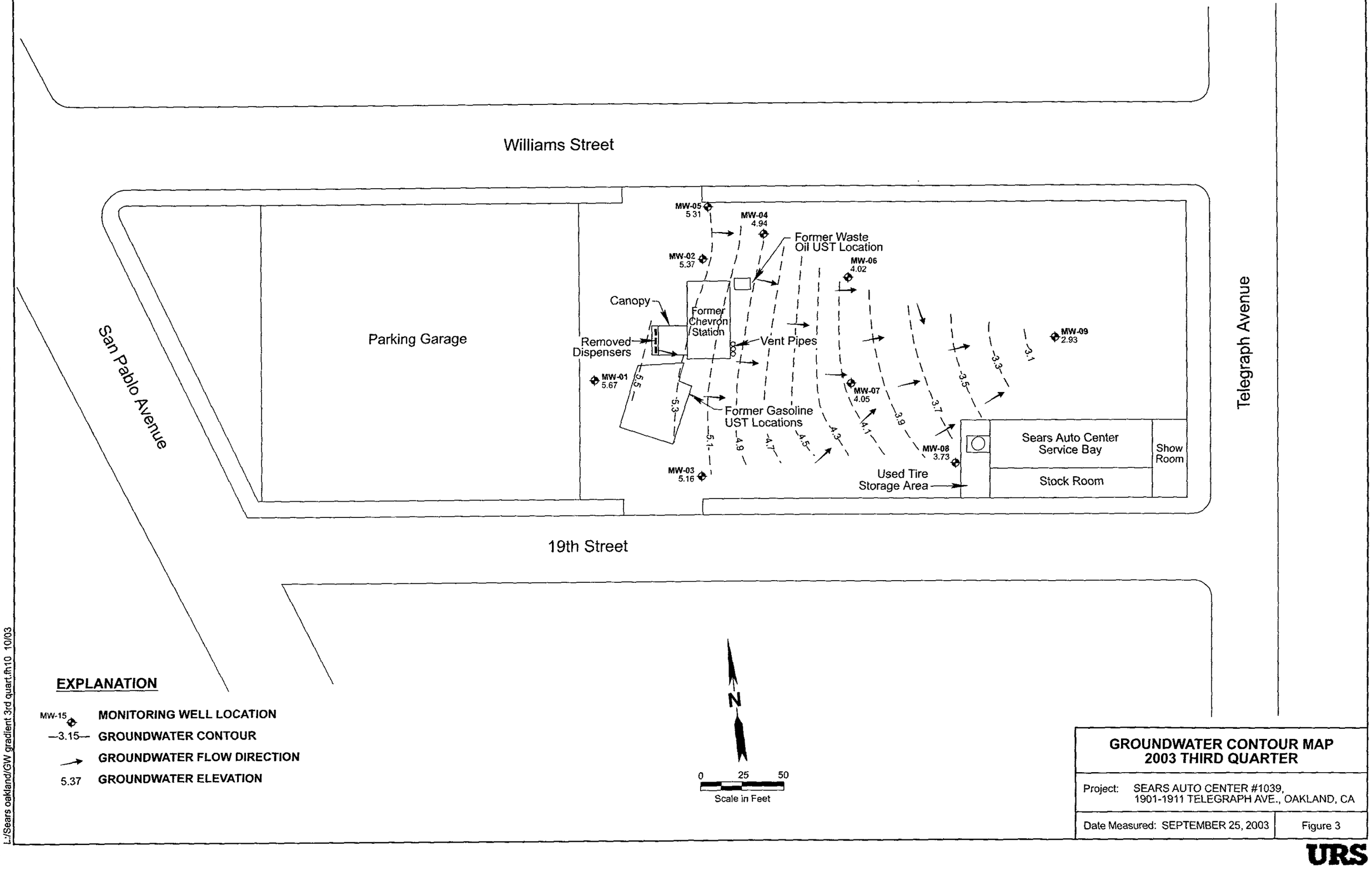
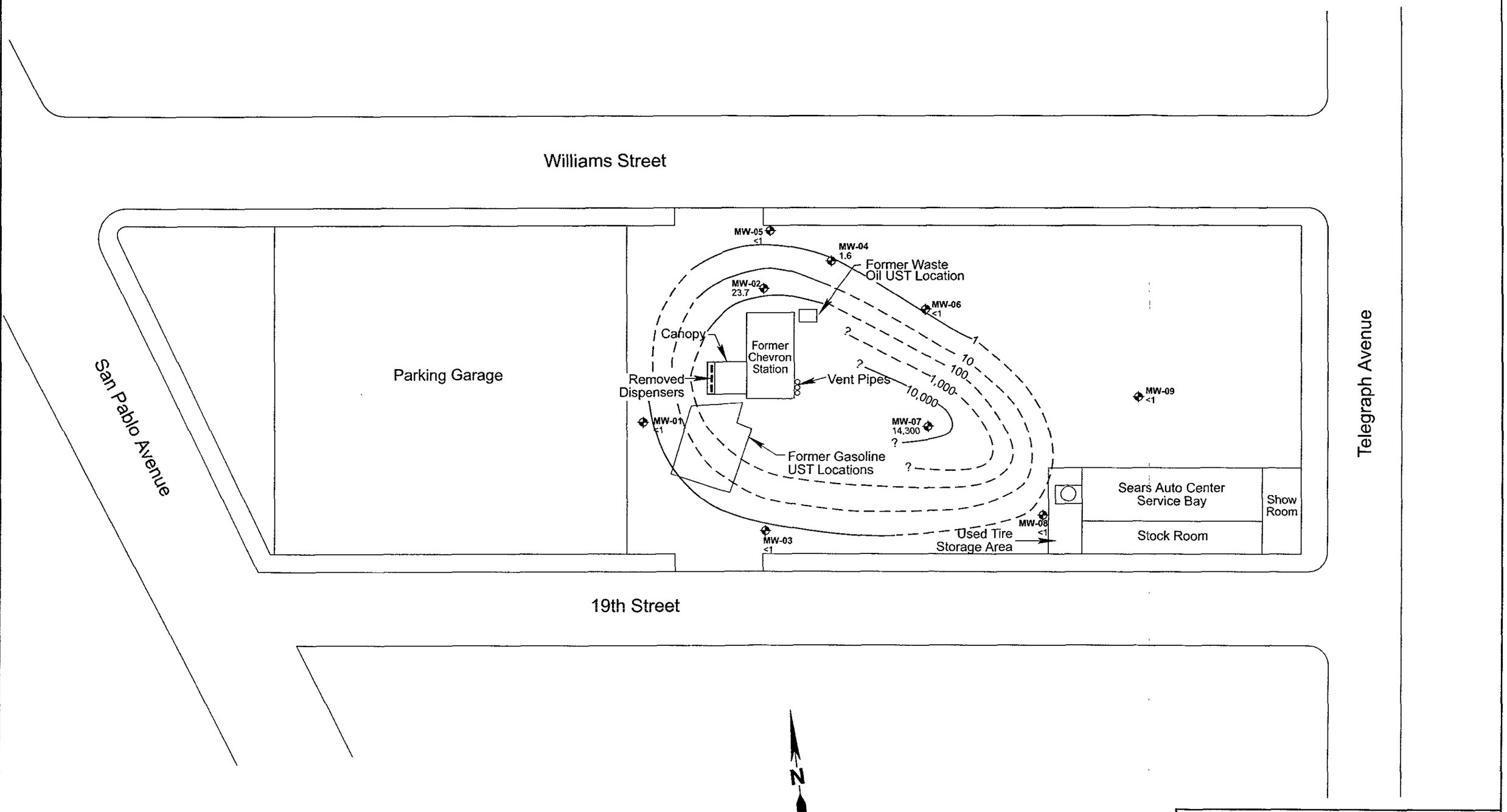
L:/Sears oakland/oakland plot plan.fh10 4/03


Williams Street
San Pablo Avenue
Parking Garage
Telegraph Avenue
19th Street
MW-05
5.31
MW-04
4.94
MW-02
5.37
Former Waste
Oil UST Location
MW-06
4.02
Canopy
Former
Chevron
Station
Removed
Dispensers
Vent Pipes
MW-09
2.93
MW-01
5.67
MW-07
4.05
Former Gasoline
UST Locations
MW-08
3.73
MW-03
5.16
Used Tire
Storage Area
Sears Auto Center
Service Bay
Show
Room
Stock Room
5.5
5.3
5.1
4.9
4.7
4.5
4.3
4.1
3.9
3.7
3.5
3.3
3.1
EXPLANATION
MW-15 MONITORING WELL LOCATION
—3.15— GROUNDWATER CONTOUR
GROUNDWATER FLOW DIRECTION
5.37 GROUNDWATER ELEVATION
N
0 25 50
Scale in Feet
GROUNDWATER CONTOUR MAP
2003 THIRD QUARTER
Project: SEARS AUTO CENTER #1039,
1901-1911 TELEGRAPH AVE., OAKLAND, CA
Date Measured: SEPTEMBER 25, 2003
Figure 3
URS
L:/Sears oakland/GW gradient 3rd quart.fh10 10/03



EXPLANATION

MW-7 14,300 — **MONITORING WELL LOCATION WITH BENZENE CONCENTRATION IN µg/L**

—100— **BENZENE ISOCONCENTRATION CONTOUR**

BENZENE ISOCONCENTRATION CONTOUR MAP (SEPT 2003)

Project: SEARS AUTO CENTER #1039, 1901-1911 TELEGRAPH AVE., OAKLAND, CA

Date Sampled: Sept 25, 2003 | Figure 5

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APPENDIX A

SWRCB GEOTRACKER SITE DATA

LUFT ANALYTICAL DATA REPORT

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300
LOCAL AGENCY (LEAD AGENCY) - CASE #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

Plot Selected Chemicals | Reset Boxes | **Note: You may select up to 6 chemicals.**

(All Data) | (Most Recent) | (Maximum Concentrations)

NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	PLOT

NO DATA HAS BEEN SUBMITTED TO THE SWRCB FOR THIS MONITORING WELL.

* DENOTES A HISTORICAL VALUE

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Locational Information

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

PHYSICAL LOCATION:

GLOBAL ID	LATITUDE	LONGITUDE
T0600100308	37.80913	-122.269338

GEOGRAPHIC DATA DETAILS:

DATUM
North American Datum 1983

SURVEY METHOD
Geocoded

PROJECTION
Geographic Projection

ESTIMATED ACCURACY
376.24 feet

SOURCE OF DATA
ETAK Geocoding Class 1 Block Match - Street Segment Exact Address Match

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

REGULATORY HISTORY

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

REGULATORY HISTORY

BEGIN DATE	STATUS
2/23/1988	Leak Discovery
2/23/1988	Leak Reported
4/12/1988	8 - Verification Monitoring Underway
4/15/1988	Leak Stopped
3/12/1992	System Entry
8/21/1998	9 - Case Closed
8/21/1998	Regulatory Review

Geotracker Home | Site/Facility Finder | Case Finder | MTBE/Case Reports

Detailed Release Information

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: *BETTY GRAHAM - (510) 622-2300*
LOCAL AGENCY (LEAD AGENCY) - CASE #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

CASE TYPE:
Soil Only

ENFORCEMENT TYPE:

FUNDING:
F

HOW LEAK WAS DISCOVERED:
Tank Closure

METHOD USED TO STOP DISCHARGE:
Close Tank

INTERIM:
Y = Interim Action Taken

CAUSE OF LEAK:
Structural Failure

SOURCE OF LEAK:
Tank

SUBSTANCES RELEASED:

Begin Date	Substance	Quantity
UNKNOWN	WASTE OIL	

Remediation On Site

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
CASE STATUS: CLOSED
SHOW THIS SITE ON MAP
RETURN TO REPORT MAIN MENU

REGIONAL BOARD - CASE #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
CONTACT: BETTY GRAHAM - (510) 622-2300

LOCAL AGENCY (LEAD AGENCY) - CASE #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

Start Date	Method	Phase
4/5/2000	Excavate And Dispose	Soil
4/5/2000	Excavate And Treat	Soil

APPENDIX B

HISTORICAL GROUNDWATER MONITORING RESULTS

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

Well No.	Sample No.	Notes	Sample Date	Sample Period	GROUNDWATER LEVELS: Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	LABORATORY ANALYTICAL RESULTS: Anal. Units	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TMB	Naphthalene
MW-1	MW-1	5	10/1/1995	Oct-95	--	--	94.34	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	9.9	ND	ND	--	--	--	--
MW-1	MW-1	5	1/1/1996	Jan-96	--	--	94.34	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	9.9	14	ND	--	--	--	--
MW-1	MW-1	5	6/12/1996	Jun-96	16.21	0.00	94.34	78.13	µg/L	< 50	--	--	< 0.5	1.4	< 0.5	< 2	--	--	--	--	--	12	< 0.5	< 0.5	--	--	--	--
MW-1	MW-1	5	9/5/1996	Sep-96	16.89	0.00	94.34	77.45	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	12	< 0.5	< 0.5	--	--	--	--
MW-1	MW-1	5	12/3/1996	Dec-96	17.07	0.00	94.34	77.27	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/27/1997	Feb-97	15.55	0.00	94.34	78.79	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	31	1.3	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	6/10/1997	Jun-97	16.46	0.00	94.34	77.88	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	19	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	8/27/1997	Aug-97	16.97	0.00	94.34	77.37	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	16	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	11/26/1997	Nov-97	17.24	0.00	94.34	77.10	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	17	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/11/1998	Feb-98	16.07	0.00	94.34	78.27	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 3	< 5.0	--	--	--	--	20	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	5/19/1998	May-98	15.43	0.00	94.34	78.91	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 4	< 5.0	--	--	--	--	14	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	8/10/1998	Aug-98	15.98	0.00	94.34	78.36	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 5	< 2.5	--	--	--	--	14	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	11/9/1998	Nov-98	16.63	0.00	94.34	77.71	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	3.1	--	--	--	--	16	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/8/1999	Feb-99	--	--	94.34	--	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 5	< 2.5	--	--	--	--	< 0.5	20	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/11/1999	Feb-99	16.55	0.00	94.34	77.79	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	MW-1	5	5/10/1999	May-99	15.50	0.00	94.34	78.84	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	14	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	8/9/1999	Aug-99	15.82	0.00	94.34	78.52	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	14	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	11/5/1999	Nov-99	16.29	0.00	94.34	78.05	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	20	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/1/2000	Feb-00	16.02	0.00	94.34	78.32	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	14	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	5/2/2000	May-00	14.48	0.00	94.34	79.86	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	23	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	8/1/2000	Aug-00	15.20	0.00	94.34	79.14	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	21	0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	11/6/2000	Nov-00	15.63	0.00	94.34	78.71	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	31	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	2/16/2001	Feb-01	15.45	0.00	94.34	78.89	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	32	0.7	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	5	4/27/2001	Apr-01	14.86	0.00	94.34	79.48	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	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	< 50	77	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	--	--	--	--	33	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-1	MW-1	2	6/5/2002	Jun-02	14.72	0.00	20.99	6.27	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	27.1	< 2.5	< 5	< 5	< 5	--	--
MW-1	MW-1	2	9/6/2002	Sep-02	15.15	0.00	20.99	5.84	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	32.3	< 2.5	< 5	< 5	< 5	--	--
MW-1	MW-1	2	12/12/2002	Dec-03	15.67	0.00	20.99	5.32	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	35.1	2.7	< 5	< 5	< 5	--	--
MW-1	MW-1	2	3/13/2003	Mar-03	14.95	0.00	20.99	6.04	µg/L	76	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	45.4	5.0	< 5	< 5	< 5	< 5	< 5
MW-1	MW-1	2	6/4/2003	Jun-03	14.68	0.00	20.99	6.31	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	37.1	3.5	< 5	< 5	< 5	< 5	< 5
MW-1	MW-1	2	9/25/2003	Sep-03	15.32	0.00	20.99	5.67	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	46.5	6.2	< 5	< 5	< 5	< 5	< 5
MW-2	MW-2	5	10/1/1995	Oct-95	--	--	93.95	--	µg/L	2,900	--	--	1,200	5.4	41	5.9	--	--	--	--	--	ND	40	280	--	--	--	--
MW-2	MW-2	5	1/1/1996	Jan-96	--	--	93.95	--	µg/L	780	--	--	1,100	11.0	100	6.9	--	--	--	--	--	ND	38	270	--	--	--	--
MW-2	MW-2	5	6/12/1996	Jun-96	16.01	0.00	93.95	77.94	µg/L	3,600	--	--	890	7.0	56	10	--	--	--	--	--	< 3	40	160	--	--	--	--
MW-2	MW-2	5	9/5/1996	Sep-96	16.66	0.00	93.95	77.29	µg/L	2,100	--	--	350	3.0	17	10	< 5.0	--	--	--	--	< 0.5	29	55	1.9	55	--	--
MW-2	MW-2	5	12/3/1996	Dec-96	16.20	0.00	93.95	77.75	µg/L	1,100	--	--	230	2.4	7.8	7	40	--	--	--	--	< 0.5	20	86	7	< 0.5	--	--
MW-2	MW-2	5	2/27/1997	Feb-97	14.46	0.00	93.95	79.49	µg/L	1,000	--	--	210	2.2	6	3	12	--	--	--	--	1	25	43	< 0.5	< 0.5	--	--
MW-2	MW-2	5	6/10/1997	Jun-97	14.00	0.00	93.95	79.95	µg/L	1.8	--	--	510	3.0	6	< 10	< 30	--	--	--	--	1	19	47	4.9	< 0.5	--	--
MW-2	MW-2	5	8/27/1997	Aug-97	16.55	0.00	93.95	77.40	µg/L	450	--	--	51	< 0.5	1.4	< 2	11	--	--	--	--	0.5	16	29	4.2	< 0.5	--	--
MW-2	MW-2	5	11/26/1997	Nov-97	16.86	0.00	93.95	77.09	µg/L	1,200	--	--	380	5.0	9	12	< 30	--	--	--	--	1	13	29	3.1	< 0.5	--	--
MW-2	MW-2	5	2/11/1998	Feb-98	15.85	0.00	93.95	78.10	µg/L	1,100	--	--	310	4.0	9.8	9	8	--	--	--	--	< 0.5	16	<0.5	2.6	0.6	--	--
MW-2	MW-2	5	5/19/1998	May-98	15.32	0.00	93.95	78.63	µg/L	1,200	--	--	320	2.1	9.9	8	20	--	--	--	--	1	14	47	1.6	< 0.5	--	--
MW-2	MW-2	5	8/10/1998	Aug-98	15.82	0.00	93.95	78.13	µg/L	300	--	--	37	1.0	1.2	0.9	40	--	--	--	--	< 0.5	11	30	2.4	< 0.5	--	--
MW-2	MW-2	5	11/9/1998	Nov-98	16.53	0.00	93.95	77.42	µg/L	440	--	--	57	< 0.5	1.7	< 0.5	< 2.5	--	--	--	--	< 0.5	12	25	2.3	< 0.5	--	--
MW-2	MW-2	5	2/8/1999	Feb-99	--	--	93.95	--	µg/L	480	--	--	240	2.3	3.9	5	11	--	--	--	--	< 0.5	11	36	1.4	< 0.5	--	--
MW-2	MW-2	5	2/11/1999	Feb-99	16.38	0.00	93.95	77.57	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	MW-2	5	5/10/1999	May-99	15.19	0.00	93.95	78.76	µg/L	260	--	--	260	2.2	7.9	4.2	24/<2.0	--	--	--	--	< 0.5	7	24	3.4	< 0.5	--	--
MW-2	MW-2	5	8/9/1999	Aug-99	16.09	0.00	93.95	77.86	µg/L	250	--	--	43	0.79	0.54	< 0.5	14/<2.0	--	--	--	--	< 0.5	11	33	2.6	< 0.5	--	--
MW-2	MW-2	5	11/5/1999	Nov-99	16.20	0.00	93.95	77.75	µg/L	320	--	--	63	0.68	0.65	1.1	11/<2.0	--	--	--	--	< 0.5	13	41	1.3	< 0.5	--	--
MW-2	MW-2	5	2/1/2000	Feb-00	16.00	0.00	93.95	77.95	µg/L	1200	--	--	610/ 590*	4.4/ 6.3*	63/ 65*	5.9/ 7.1*	< 0.5	--	--	--	--	< 0.5	15	73	2	< 0.5	--	--
MW-2	MW-2	5	5/2/2000	May-00	14.90	0.00	93.95	79.05	µg/L	930	--	--	540/600*	3.7/<5.0*	15/14*	14/11*	< 0.5	--	--	--	--	< 0.5	8.4	32	4.5	< 0.5	--	--
MW-2	MW-2	5	8/1/2000	Aug-00	15.25	0.00	93.95	78.70	µg/L	410	--	--	110	1.2	4.8	1.6	< 0.5	--	--	--	--	< 0.5	9.4	23	2.9	< 0.5	--	--
MW-2	MW-2	5	11/6/2000	Nov-00	15.45	0.00	93.95	78.50	µg/L	450	--	--	150/130*	.09/.09*	4.1/3.7*	1.1/1.0*	20	--	--	--	--	< 0.5	10	20	1.6	< 0.5	--	--
MW-2	MW-2	5	2/16/2001	Feb-01	15.50	0.00	93.95	78.45	µg/L	640	--	--	360/390*	4.4/4.1*	19/17*	8.6/8.1*	< 0.5	--	--	--	--	< 0.5	11	19	2.5	< 0.5	--	--
MW-2	MW-2	5	4/27/2001	Apr-01	14.83	0.00	93.95	79.12	µg/L	770	--	--	450/510	3.3/3.5	8.4/10	6.3/7.2	< 0.5	--	--	--	--	< 0.5	4.4	11	4.0	< 0.5	--	--
MW-2	MW-2	5	7/24/2001	Jul-01	15.18	0.00	93.95	78.77	µg/L	430	--	--	130/120	1.7/1.6	8.8/8.1	6.5/5.8	< 0.5	--	--	--	--	< 0.5	7.2	15	3.0	< 0.5	--	--
MW-2	MW-2	2	3/27/2002	Mar-02	14.41	0.00	93.95	79.54	µg/L	480	< 50	< 500	610	< 0.50	19	14	< 5.0	--	--	--	--	< 0.50	5.1	8.9	< 0.50	< 0.50	--	--
MW-2	MW-2	2	6/5/2002	Jun-02	14.41	0.00	20.50	6.09	µg/L	406	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	16.7	< 2.5	4.6	8.5	< 5.0	< 5.0	--	--

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

Well No.	Sample No.	Notes	Sample Date	Sample Period	GROUNDWATER LEVELS: Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	LABORATORY ANALYTICAL RESULTS: Anal. Units	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TMB	Naphthalene
MW-2	MW-2	2	9/6/2002	Sep-02	14.91	0.00	20.50	5.59	µg/L	71	< 500	< 2000	< 1.0	< 1	< 1	< 2	< 2	< 2	< 2	< 2	15.7	< 2.5	2.7	9.7	< 5	< 5	--	--
MW-2	MW-2	2	12/12/2002	Dec-02	15.41	0.00	20.50	5.09	µg/L	461	< 500	< 2000	86.5	< 1	2.9	8.6	< 2	< 2	< 2	< 2	< 10	< 2.5	6.5	8.4	< 5	< 5	--	--
MW-2	MW-2	2,3	12/12/2002	Dec-02	15.41	0.00	20.50	5.09	µg/L	493	< 500	< 2000	87.2	< 1	3.7	9.5	< 2	< 2	< 2	< 2	< 10	< 2.5	7.3	9.3	< 5	< 5	--	--
MW-2	MW-2	2	3/13/2003	Mar-03	14.75	0.00	20.50	5.75	µg/L	729	< 500	< 2000	151	< 1	4.8	9.3	< 2	< 2	< 2	< 2	18	< 2.5	9.8	14.1	< 5	< 5	< 5	< 5
MW-2	MW-2	2,3	3/13/2003	Mar-03	14.75	0.00	20.50	5.75	µg/L	787	--	--	172	< 1	5.9	10.8	< 2	< 2	< 2	< 2	26	< 2.5	9.6	17.6	< 5	< 5	< 5	< 5
MW-2	MW-2	2,3	6/4/2003	Jun-03	14.43	0.00	20.50	6.07	µg/L	930	< 500	< 2000	399.0	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	3.5	7.9	< 5	< 5	< 5	< 5
MW-2	MW-2	2	9/25/2003	Sep-03	15.25	0.00	20.50	5.25	µg/L	180	--	--	23.7	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	6.8	9.8	< 5	< 5	< 5	< 5
MW-2	MW-2	2,3	9/25/2003	Sep-03	15.25	0.00	20.50	5.25	µg/L	184	--	--	24.5	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	7.8	9.1	< 5	< 5	< 5	< 5
MW-3	MW-3	5	10/1/1995	Oct-95	--	--	96.15	--	µg/L	< 50	--	--	ND		ND	ND	--	--	--	--	--	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	5	6/12/1996	Jun-96	17.56	0.00	96.15	78.59	µg/L	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2	--	--	--	--	--	< 0.5	< 0.5	< 0.5	--	--	--	--
MW-3	MW-3	5	9/5/1996	Sep-96	18.32	0.00	96.15	77.83	µg/L	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	--	--	--	--
MW-3	MW-3	5	12/3/1996	Dec-96	18.57	0.00	96.15	77.58	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	2.3	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/27/1997	Feb-97	17.43	0.00	96.15	78.72	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	6.3	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	6/10/1997	Jun-97	18.12	0.00	96.15	78.03	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	5.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	8/27/1997	Aug-97	18.47	0.00	96.15	77.68	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	5.8	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	11/26/1997	Nov-97	18.70	0.00	96.15	77.45	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/11/1998	Feb-98	17.76	0.00	96.15	78.39	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	5/19/1998	May-98	16.99	0.00	96.15	79.16	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	5.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	8/10/1998	Aug-98	17.51	0.00	96.15	78.64	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	11/9/1998	Nov-98	18.07	0.00	96.15	78.08	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	5.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/8/1999	Feb-99	--	--	96.15	--	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	6.4	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/11/1999	Feb-99	18.07	0.00	96.15	78.08	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	MW-3	5	5/10/1999	May-99	17.04	0.00	96.15	79.11	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	5.1	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	8/9/1999	Aug-99	17.77	0.00	96.15	78.38	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	4.8	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	11/5/1999	Nov-99	18.00	0.00	96.15	78.15	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	7.2	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/1/2000	Feb-00	17.95	0.00	96.15	78.20	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	6.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	5/2/2000	May-00	16.83	0.00	96.15	79.32	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	6.4	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	8/1/2000	Aug-00	17.13	0.00	96.15	79.02	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	5.6	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	11/6/2000	Nov-00	17.54	0.00	96.15	78.61	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	7.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	2/16/2001	Feb-01	17.42	0.00	96.15	78.73	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	8.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	4/27/2001	Apr-01	16.80	0.00	96.15	79.35	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	8.1	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	5	7/24/2001	Jul-01	17.08	0.00	96.15	79.07	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	11.0	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-3	MW-3	4	3/27/2002	Mar-02	16.50	0.00	96.15	79.65	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	MW-3	2	6/5/2002	Jun-02	16.53	0.00	22.29	5.76	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	20.9	4.5	< 5	< 5	< 5	--	--
MW-3	MW-3	2	9/6/2002	Sep-02	16.95	0.00	22.29	5.34	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	28.0	9.3	< 5	< 5	< 5	--	--
MW-3	MW-3	2	12/12/2002	Dec-03	17.36	0.00	22.29	4.93	µg/L	50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	28.7	12.7	< 5	< 5	< 5	--	--
MW-3	MW-3	2	3/13/2003	Mar-03	16.84	0.00	22.29	5.45	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	35.1	12.5	< 5	< 5	< 5	< 5	< 5
MW-3	MW-3	2	6/4/2003	Jun-03	16.54	0.00	22.29	5.75	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	40.8	11.5	< 5	< 5	< 5	< 5	< 5
MW-3	MW-3	2	9/25/2003	Sep-03	17.13	0.00	22.29	5.16	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	32.6	14.0	< 5	< 5	< 5	< 5	< 5
MW-4	MW-4	5	10/1/1995	Oct-95	--	0.00	92.01	--	µg/L	<50	--	--	4.1		ND	ND	--	--	--	--	--	ND	ND	ND	--	--	--	--
MW-4	MW-4	5	1/1/1996	Jan-96	--	0.00		--	µg/L	<50	--	--	5.8		ND	ND	--	--	--	--	--	ND	ND	ND	--	--	--	--
MW-4	MW-4	5	6/12/1996	Jun-96	14.21	0.00	92.01	77.80	µg/L	320	--	< 0.5	11	< 0.5	< 0.5	< 2	--	--	--	--	--	< 0.5	< 0.5	< 0.5	--	--	--	--
MW-4	MW-4	5	9/5/1996	Sep-96	14.83	0.00	92.01	77.18	µg/L	70	--	< 0.5	5.6	< 0.5	< 0.5	< 2	--	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	12/3/1996	Dec-96	13.99	0.00	92.01	78.02	µg/L	270	--	< 0.5	11	< 0.5	< 0.5	< 2	15	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	2/27/1997	Feb-97	13.44	0.00	92.01	78.57	µg/L	190	--	< 500	3.1	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	6/10/1997	Jun-97	14.20	0.00	92.01	77.81	µg/L	200	--	--	11	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	8/27/1997	Aug-97	14.62	0.00	92.01	77.39	µg/L	170	--	< 0.5	9.6	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	11/26/1997	Nov-97	15.00	0.00	92.01	77.01	µg/L	100	--	< 500	6.7	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	2/11/1998	Feb-98	14.10	0.00	92.01	77.91	µg/L	110	--	< 500	8.4	< 0.5	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	5/19/1998	May-98	13.57	0.00	92.01	78.44	µg/L	110	--	< 500	4.6	< 0.5	< 0.5	< 2	7	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	8/10/1998	Aug-98	14.10	0.00	92.01	77.91	µg/L	110	--	9,600	4.1	< 0.5	< 0.5	< 0.5	11	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	11/9/1998	Nov-98	14.75	0.00	92.01	77.26	µg/L	130	--	< 500	7.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	2/8/1999	Feb-99	--	--	92.01	--	µg/L	60	--	< 500	6.8	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	2/11/1999	Feb-99	14.57	0.00	92.01	77.44	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	MW-4	5	5/10/1999	May-99	13.46	0.00	92.01	78.55	µg/L	61	--	< 5000	1.3	< 0.5	< 0.5	< 0.5	< 2.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	8/9/1999	Aug-99	14.15	0.00	92.01	77.86	µg/L	94	--	< 1000	7.9	< 0.5	< 0.5	< 0.5	3.9/<2.0*	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	11/5/1999	Nov-99	14.62	0.00	92.01	77.39	µg/L	< 50	--	--	9.0	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	2/1/2000	Feb-00	14.50	0.00	92.01	77.51	µg/L	150	--	800	18	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--
MW-4	MW-4	5	5/2/2000	May-00	13.40	0.00	92.01	78.61	µg/L	55	--	< 1000	8.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--

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

Well No.	Sample No.	Notes	Sample Date	Sample Period	GROUNDWATER LEVELS: Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	LABORATORY ANALYTICAL RESULTS: Anal. Units	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TMB	Naphthalene
MW-8	MW-8	4	6/5/2002	Jun-02	16.81	0.00	21.12	4.31	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	MW-8	2	9/6/2002	Sep-02	17.26	0.00	21.12	3.86	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	4.5	< 2.5	< 5	< 5	< 5	--	--
MW-8	MW-8	2	12/12/2002	Dec-02	17.62	0.00	21.12	3.50	µg/L	69	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	< 2.5	< 2.5	< 5	< 5	< 5	--	--
MW-8	MW-8	2	3/13/2003	Mar-03	17.19	0.00	21.12	3.93	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	5.2	< 2.5	< 5	< 5	< 5	< 5	< 5
MW-8	MW-8	2	6/4/2003	Jun-03	16.80	0.00	21.12	4.32	µg/L	< 50	< 500	< 2000	1.2	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	2.5	< 2.5	< 5	< 5	< 5	< 5	< 5
MW-8	MW-8	2	9/25/2003	Sep-03	17.39	0.00	21.12	3.73	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	4.7	< 2.5	< 5	< 5	< 5	< 5	< 5
MW-9	MW-9	5	11/5/1999	Nov-99	16.86	0.00	92.54	75.68	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	3/2.4*	--	--	--	--	65	29	32	<0.5	< 0.5	--	--
MW-9	MW-9	5	2/1/2000	Feb-00	16.70	0.00	92.54	75.84	µg/L	< 50	--	--	2.6	< 0.5	< 0.5	< 0.5	3.0*	--	--	--	--	60	22	36	0.7	< 0.5	--	--
MW-9	MW-9	5	5/2/2000	May-00	16.02	0.00	92.54	76.52	µg/L	77	--	--	0.6	< 0.5	< 0.5	< 0.5	2.0*	--	--	--	--	39	19	30	0.5	< 0.5	--	--
MW-9	MW-9	5	8/1/2000	Aug-00	16.34	0.00	92.54	76.20	µg/L	70	--	--	< 0.5	< 0.5	< 0.5	< 0.5	2.7	--	--	--	--	41	19	37	0.7	< 0.5	--	--
MW-9	MW-9	5	11/6/2000	Nov-00	16.55	0.00	92.54	75.99	µg/L	74	--	--	0.6	< 0.5	< 0.5	< 0.5	3.2	--	--	--	--	31	15	34	0.8	< 0.5	--	--
MW-9	MW-9	5	2/16/2001	Feb-01	16.31	0.00	92.54	76.23	µg/L	52	--	--	< 0.5	< 0.5	< 0.5	< 0.5	3.4	--	--	--	--	26	14	33	0.9	< 0.5	--	--
MW-9	MW-9	5	4/27/2001	Apr-01	15.90	0.00	92.54	76.64	µg/L	64	--	--	< 0.5	< 0.5	< 0.5	< 0.5	1.9	--	--	--	--	42	16	38	0.6	< 0.5	--	--
MW-9	MW-9	5	7/24/2001	Jul-01	16.19	0.00	92.54	76.35	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	1.7	--	--	--	--	31	12	34	0.7	< 0.5	--	--
MW-9	MW-9	2	3/27/2002	Mar-02	15.61	0.00	92.54	76.93	µg/L	< 50	< 50	< 500	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	--	--	--	--	32	10	17	0.73	< 0.50	--	--
MW-9	MW-9	2	6/5/2002	Jun-02	15.71	0.00	19.20	3.49	µg/L	33.2	< 500	< 2000	< 1	< 1	< 1	< 2	2.3	< 2	< 2	< 2	< 10	33.2	12	< 5	< 5	< 5	--	--
MW-9	MW-9	2	9/6/2002	Sep-02	16.13	0.00	19.20	3.49	µg/L	< 50	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	28.1	10.6	24.2	< 5	< 5	--	--
MW-9	MW-9	2	12/12/2002	Dec-02	16.48	0.00	19.20	2.72	µg/L	68	< 500	< 2000	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	26.3	10.3	12.0	< 5	< 5	--	--
MW-9	MW-9	2	3/13/2003	Mar-03	16.07	0.00	19.20	3.13	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	31.3	13.8	16.5	< 5	< 5	< 5	< 5
MW-9	MW-9	4	6/4/2003	Jun-03	15.68	0.00	19.20	3.52	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	MW-9	2	9/25/2003	Sep-03	16.27	0.00	19.20	2.93	µg/L	< 50	--	--	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 10	25.2	9.7	11.7	< 5	< 5	< 5	< 5

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 Sample

< = Analyte not detected above indicated method detection limit
TPHg = Total Petroleum Hydrocarbons as gasoline range hydrocarbons by EPA Method 8015 (modified)
TPHd = Total Petroleum Hydrocarbonsas diesel range hydrocarbons by EPA Method 8015 (modified)
TRPo = Total Petroleum Hydrocarbons as oil range by EPA Method 8015 (modified)
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
1,2,4-TMB = 1,2,4- *Trimethylbenzene*

MTBE = Methyl tert-Butyl ether (Prior to 5/99 analyzed using EPA Method 8020; 1999 duplicates and all post-1999 samples analyzed using EPA Method 8260
DIPE - Di-isopropyl Ether
TAME - Tertiary Amyl Methyl Ether
TBA - Tertiary Butyl Alcohol
ETBE - Ethyl Tertiary Butyl Ether
Notes: Historical data before June 1996 as reported by previous consultants

APPENDIX C

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

Southland Technical Services, Inc.
Environmental Laboratories

10-14-2003

Mr. Scott Rowlands
URS Corporation
2020 E. First Street, Suite 400
Santa Ana, CA 92705

Project: 29863493/Sears Oakland 1039
Project Site: 1901 Telegraph Ave., Oakland, CA
Sample Date: 09-25-2003
Lab Job No.: UR309176

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 09-29-2003 and analyzed by the following EPA methods:

EPA 8015M (Gasoline)
EPA 8260B (VOCs by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled at 4°C, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

STS
Southland Technical Services, Inc.
Environmental Laboratories

10-14-2003

Client:	URS Corporation	Lab Job No.:	UR309176
Project:	29863493/Sears Oakland 1039		
Project Site:	1901 Telegraph Ave., Oakland, CA	Date Sampled	09-25-2003
Matrix:	Water	Date Received:	09-29-2003
Batch No.:	AJ01-GW1	Date Analyzed:	10-01-2003

EPA 8015M (Gasoline)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			10-01-03	10-01-03	10-01-03	10-01-03	10-01-03
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
LAB SAMPLE I.D.				UR309176-1	UR309176-2	UR309176-3	UR309176-4
CLIENT SAMPLE I.D.				MW-1	MW-2	MW-3	MW-4
Analyte		**MDL**	**MB**				
TPH-Gasoline (C4 - C12)		50	ND	ND	180	ND	ND
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	98	103	102	106	75

Date of Analysis for TPH (Gasoline)			10-01-03	10-01-03	10-01-03	10-01-03	10-01-03
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
LAB SAMPLE I.D.			UR309176-5	UR309176-6	UR309176-7	UR309176-8	UR309176-9
CLIENT SAMPLE I.D.			MW-5	MW-6	MW-7	MW-8	MW-9
Analyte		**MDL**					
TPH-Gasoline (C4 - C12)		50	ND	ND	23,800	ND	ND
Surrogate	Spk Conc.	ACP%	%RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	94	111	127	108	110

Date of Analysis for TPH (Gasoline)			10-01-03	10-01-03	10-01-03	10-01-03	
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	
LAB SAMPLE I.D.				UR309176-10	UR309176-11	UR309176-12	
CLIENT SAMPLE I.D.				DUP-1	EB-1	Trip Blank	
Analyte		**MDL**	**MB**				
TPH-Gasoline (C4 - C12)		50	ND	184	ND	ND	
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC	
BFB (for TPH-Gasoline)	20 ppb	70-130	98	85	94	110	

SPK Conc.=Spiking Concentration; ACP%=Acceptable Range of Percent; %RC=% Recovery
MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected(Below MDL); NA=Not Analyzed

Checked & approved by:

Roger Wang, Ph.D.
Laboratory Director.

[illegible] Telegraph Road Suite L, Montebello, CA 90640 Phone: (323) 888-1728 Fax: (323) 888-1509

Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863493/Sears Oakland 1039

Lab Job No.: UR309176
Matrix: Water

Date Reported: 10-14-2003
Date Sampled: 09-25-2003

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: µg/L(ppb)

Date ANALYZED		10-02-03	10-02-03	10-02-03	10-02-03	10-02-03	10-02-03	10-02-03
PREPARATION METHOD		5030	5030	5030	5030	5030	5030	5030
DILUTION FACTOR		1	1	1	1	1	1	1
LAB SAMPLE I.D.			UR309176-1	UR309176-2	UR309176-3	UR309176-4	UR309176-5	UR309176-6
CLIENT SAMPLE I.D.			MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
COMPOUND	MDL	MB						
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Iodomethane	5	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	9.8	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	23.7	ND	1.6	ND	ND
Trichloroethene	2.5	ND	6.2	6.8	14.0	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.5	ND	46.5	ND	32.6	ND	ND	ND
1,2-Dibromoethane(EDB)	5	ND	ND	ND	ND	ND	ND	ND

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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863493/Sears Oakland 1039

Lab Job No.: UR309176
Matrix: Water

Date Reported: 10-14-2003
Date Sampled: 09-25-2003

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	MB	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	2	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	25	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	25	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	ND	ND	ND	ND	ND	ND	ND
MTBE	2	ND	ND	ND	ND	ND	ND	ND
ETBE	2	ND	ND	ND	ND	ND	ND	ND
DIPE	2	ND	ND	ND	ND	ND	ND	ND
TAME	2	ND	ND	ND	ND	ND	ND	ND
t-Butyl Alcohol	10	ND	ND	ND	ND	ND	ND	ND
SURROGATE	**SPK Conc.**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**
Dibromofluoro-methane	25	96	98	98	91	97	97	101
Toluene-d8	25	99	100	102	103	105	104	106
Bromofluoro-benzene	25	103	102	104	105	106	108	103

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863493/Sears Oakland 1039

Lab Job No.: UR309176
Matrix: Water

Date Reported: 10-14-2003
Date Sampled: 09-25-2003

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: µg/L(ppb)

Date ANALYZED		10-02-03	10-02-03	10-02-03	10-02-03	10-02-03	10-02-03	10-02-03
PREPARATION METHOD		5030	5030	5030	5030	5030	5030	5030
DILUTION FACTOR		1	100	1	1	1	1	1
LAB SAMPLE I.D.			UR309176-7	UR309176-8	UR309176-9	UR309176-10	UR309176-11	UR309176-12
CLIENT SAMPLE I.D.			MW-7	MW-8	MW-9	DUP-1	EB-1	Trip Blank
COMPOUND	MDL	MB						
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Iodomethane	5	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	11.7	9.1	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	14,300	ND	ND	24.5,	ND	ND
Trichloroethene	2.5	ND	ND	ND	9.7	7.8	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND
Toluene	1	ND	140	ND	ND	ND	ND	ND
Tetrachloroethene	2.5	ND	ND	4.7	25.2	ND	ND	ND
1,2-Dibromoethane(EDB)	5	ND	ND	ND	ND	ND	ND	ND

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Client: URS Corporation | Lab Job No.: UR309176 | Date Reported: 10-14-2003
Project: 29863493/Sears Oakland 1039 | Matrix: Water | Date Sampled: 09-25-2003

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	MB	MW-7	MW-8	MW-9	DUP-1	EB-1	Trip Blank
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	ND	554	ND	ND	ND	ND	ND
Total Xylenes	2	ND	752	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Acetone	25	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	25	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	ND	ND	ND	ND	ND	ND	ND
MTBE	2	ND	ND	ND	ND	ND	ND	ND
ETBE	2	ND	ND	ND	ND	ND	ND	ND
DIPE	2	ND	ND	ND	ND	ND	ND	ND
TAME	2	ND	ND	ND	ND	ND	ND	ND
t-Butyl Alcohol	10	ND	ND	ND	ND	ND	ND	ND
SURROGATE	**SPK Conc.**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**
Dibromofluoro-methane	25	96	92	100	100	91	99	97
Toluene-d4	25	99	100	103	108	102	100	99
Bromofluoro-benzene	25	103	106	109	102	108	108	102

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

Southland Technical Services, Inc.
Environmental Laboratories

10-14-2003

EPA 8015M (TPH)
Batch QA/QC Report

Client:	URS Corporation	Lab Job No.:	UR309176
Project:	29863493/Sears Oakland 1039		
Matrix:	Water	Lab Sample ID:	UR309176-6
Batch No.:	AJ01-GW1	Date Analyzed:	10-01-2003

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-G	ND	1000	988	1,050	98.8	105.0	6.1	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	996	1000	99.6	80-120

ND: Not Detected (at the specified limit).

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Southland Technical Services, Inc.
Environmental Laboratories

10-14-2003

EPA 8260B
Batch QA/QC Report

Client:	URS Corporation	Lab Job No.:	UR309176
Project:	29863493/Sears Oakland 1039		
Matrix:	Water	Sample ID:	UR309176-6
Batch No:	1002-VOAW	Date Analyzed:	10-02-0903

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	21.1	21.7	105.5	108.5	2.8	30	70-130
Benzene	ND	20	21.9	20.9	109.5	104.5	4.7	30	70-130
Trichloro-ethene	ND	20	18.4	18.0	92.0	90.0	2.2	30	70-130
Toluene	ND	20	23.0	21.5	115.0	107.5	6.7	30	70-130
Chlorobenzene	ND	20	19.9	18.2	99.5	91.0	8.9	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	21.5	20.0	107.5	80-120
Benzene	21.3	20.0	106.5	80-120
Trichloro-ethene	18.3	20.0	91.5	80-120
Toluene	20.3	20.0	101.5	80-120
Chlorobenzene	18.3	20.0	91.5	80-120

ND: Not Detected.

URS CORPORATION
2020 East First Street, Suite 400
Santa Ana, CA 92705
(714) 835-6886
FAX (714) 667-7147

CHAIN OF CUSTODY RECORD

Date: 09 / 25 / 03

Page 1 of 2

☐ Data Requested in GISKey Format

Lab Name: STS	URS Project/PO Number: 29863493.03054
Client Name/Project Name/Location: SEARS, OAKLAND # 1039	GeoTracker Information:
URS Project Manager: SCOTT ROWLANDS	EDF Reporting Y N Global ID:
Sampler Name and Signature: S. TURNER	COELT Log Number:

	Sample Name	Sample Date	Sample Time	Preserved	Matrix	Container Type	# of Cont	Requested Analyses: TPHg (8015M)	VOC (8260B)	HOLD	Special Instructions
1	MW-1	25SEP 03	1001	Y N HCl	S L G	Acetate SS Brass Jar Encore ____ml Amb Plas. Glass VOA	3	X	X		
2	MW-3	25 SEP 03	1113	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
3	MW-6	25SEP 03	1211	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
4	MW-8	25SEP 03	1333	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
5	MW-7	25SEP 03	1420	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
6	MW-5	25SEP 03	1511	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
7	MW-4	25 SEP 03	1656	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas Glass VOA	3	X	X		
8	EB-1	25SEP 03	1725	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		
9	MW-2	25SEP 03	1851	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas Glass VOA	3	X	X		
10	DUP-1	25SEP 03	1902	Y N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA	3	X	X		

Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By:	Date/Time:

Turnaround Time: (Check)
Same Day ____ 72 Hour: ____
24 Hour: ____ 5 Day: ____
48 Hour: ____ Standard ____

Lab Use Only
Cooler Temperature*: ____
*Record upon arrival

URS

S=Solid L=Liquid G= Gas

White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

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Santa Ana, CA 92705
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CHAIN OF CUSTODY RECORD

Date: 09 / 25 / 03

☐ Data Requested in GISKey Format

Lab Name: STS	URS Project/PO Number: 29863493.03034
Client Name/Project Name/Location: SEARS, OAKLAND #1039	GeoTracker Information:
URS Project Manager: SCOTT ROWLANDS	EDF Reporting Y N Global ID:
Sampler Name and Signature: S. TURNER	COELT Log Number:

	Sample Name:	Sample Date	Sample Time	Preserved	Matrix:	Container Type:	# of Cont:	Requested Analyses: TPHg (8015M)	VOC (8260B)	HOLD	Special Instructions
1	MW-7	25 SEP 03	1953	(Y) N HCl	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass (VOA)	3	X	X		
2	TRIP BLANK			Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass (VOA)	1				
3	TEMP. BLANK			Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass (VOA)	1				
4				Y N	S L G	Acetate SS Brass Jar Encore ____ml Amb Plas Glass VOA					
5				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					
6				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					
7				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					
8				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					
9				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					
10				Y N	S L G	Acetate SS. Brass Jar Encore ____ml Amb. Plas. Glass VOA					

Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by:	Date:	Received By:	Date/Time:
Relinquished by	Date:	Received By:	Date/Time

Turnaround Time: (Check)

Same Day ____	72 Hour ____
24 Hour ____	5 Day ____
48 Hour: ____	Standard ____

Lab Use Only

Cooler Temperature*: _____
*Record upon arrival

URS

S=Solid L=Liquid G= Gas

White Copy in Final Report, Yellow to File, Pink to URS at Dropoff

APPENDIX D

URS DATA VALIDATION REPORTS

URS

December 10, 2003

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Number 250
Alameda, California 94502

Subject: **2003 Third Quarter Groundwater Monitoring**
Former Sears Retail Center #1039
1901- 1911 Telegraph Avenue
Oakland, California
Case I.D. #STID 1630
For Sears, Roebuck & Co.

Dear Mr. Hwang:

Submitted with this letter is a URS report prepared on behalf of Sears, Roebuck & Co. Presented in the report are results of groundwater monitoring conducted at the above-referenced Site during the third quarter 2003. Quarterly groundwater monitoring will continue within the current scope of work during fourth quarter of 2003. Please feel free to contact Taras Kruk or me at (714) 835 6886 if you have questions or comments.

Respectfully Submitted,

URS CORPORATION

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

cc: Mr. Scott DeMuth, Sears Roebuck and Co.
Mr. Ryan Hartley, URS Corporation

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