URS

December 12, 2002

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

RE: 2002 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. Gholami

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 2002. Quarterly groundwater monitoring will continue within the current scope of work during the fourth quarter of 2002. 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

URS

2002 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 12, 2002

TABLE OF CONTENTS

2002 THIRD QUARTER
GROUNDWATER MONITORING REPORT
SEARS AUTO CENTER #1039
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
CASE I.D. # STID 1630
URS JOB NO. 29863493
FOR SEARS, ROEBUCK & CO.

1.0 INTRODUCTION

This report has been prepared by URS Corporation on behalf of Sears, Roebuck & Co. (Sears). It presents results of the 2002 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 eight of nine monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, 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 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). 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, 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 (RWQCB, 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 a used oil UST. The USTs were removed in January 1988, prior to Sears' ownership of the site.

An agency file review conducted by Environmental Science & Engineering, Inc. (ESE) at ACEHS and RWQCB indicated that gasoline affected soil was reportedly excavated and disposed during the UST removal project (ESE, December 27, 1995). Site data listed on the State Water Resources Control Board (SWRCB) Geotracker web site shows Chevron as the site responsible party. Site data from the Geotracker website including summaries of release information, remediation status, and regulatory history, is provided in Appendix A.

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 have been detected in 5 of 9 wells. Available historical groundwater data (since October 1995); including depth to water, groundwater elevation, and hydrocarbon and Volatile Organic Compounds (VOC's) 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 plan to:

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

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

5.0 QUARTERLY GROUNDWATER MONITORING

The 2002 Third Quarter Groundwater Monitoring was performed on September 6, 2002. The monitoring consisted of groundwater gauging of all nine wells, and purging and sampling the following eight wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8 and 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 2002 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 measured field parameters are listed in Table 1.

Groundwater samples were collected from eight selected monitoring wells for laboratory analysis during the 2002 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-7 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 to 7 degrees centigrade and transported to a Southland Technical Services, Inc., 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 for TPHg, total petroleum hydrocarbons as diesel fuel range organics (TPHd), and oil range organics (TPHo) 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 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 during this quarter.

5.5 SITE SURVEY

In May 2002, the well field was re-surveyed in respect to MSL datum by Mariscal and Associates, Inc., licensed land surveyors. Based on the new survey data, the historic casing and groundwater elevations for monitoring wells at the Site were not recorded in respect to MSL datum. The elevation difference between the historic top of well casing data and the current survey data is approximately 70 feet (Appendix B).

5.6 WASTE MANAGEMENT

Well purge water was 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

The measured depth to water ranged from 13.18 feet to 17.26 feet bgs or approximately 3.07 feet to 5.84 feet above MSL during the 2002 third quarter. Groundwater elevation has decreased an average of 0.41 since the 2002 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 2002 third quarter water level measurements, is provided on Figure 3.

Groundwater elevation contours for the site 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 0.011 (Figure 3).

6.2 LABORATORY ANALYTICAL RESULTS

TPHg was detected in groundwater samples collected from wells MW-2 and MW-7 with concentrations of 71 micrograms per liter (µg/L) and 15,600 µg/L, respectively. TPHd and TPHo was not detected (ND) in any of the wells sampled this quarter. Benzene was detected in samples collected from monitoring well MW-7 with a concentration of 11,500 µg/L. TBA was detected in samples collected from monitoring well MW-2 at a concentration of 15.7 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. Detected concentrations of chlorinated VOCs ranged from 2.7 µg/L to 32.3 µg/L.

Chemical analysis results of the 2002 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 2002 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 usable, as qualified, for their intended purpose." A copy of URS's Data Validation Memos are included in Appendix D.

7.0 DISCUSSION

The 2002 third quarter groundwater monitoring event represents the 28th groundwater sampling event conducted at the Site. Groundwater elevations have decreased approximately 0.41 feet since the last sampling event conducted in June 2002. Groundwater flow direction is towards the east with a gradient of 0.011, which is consistent with previous monitoring events. TPHg and benzene were detected in one of the eight wells sampled with concentrations up to 15,600 µg/L and 11,500 µg/L, respectively. Detectable concentration of TBA was present in one groundwater sample collected this quarter at a concentration of 15.7 µg/L. 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 former gasoline USTs and fuel dispensing area of the former Chevron station on the Site.

Chlorinated VOCs have been detected in both the upgradient well MW-1 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

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

- Submittal of Monitoring Well Installation Work Plan: January 2003,
- Quarterly groundwater monitoring of wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8 and MW-9: December 2002,
- Submittal of 2002 Fourth Quarter Groundwater Monitoring Report to ACEHS: January 31, 2003.

ACEHS will be notified of upcoming field activities.

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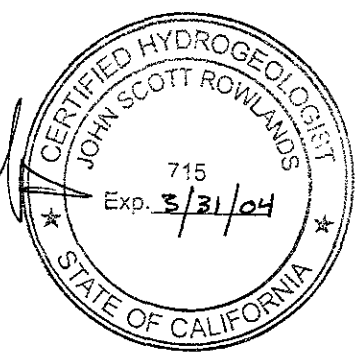
Should you have any questions or comments, please do not hesitate to contact us.

Respectfully Submitted,

URS CORPORATION

Robert Kovacs
Senior Staff Geologist

J.S. Rowlands, R.G., C.HG.
Senior Project Geologist



9.0 REFERENCES

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URS Corporation, 2002. *2002 Second Quarter Groundwater Monitoring* Draft, Former Sears Retail Center #1039, 1901- 1911 Telegraph Avenue, Oakland, California, September 30.

TABLES

Table 1
2002 3rd 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	9/6/02	--	9/6/02	NA	15.15	20.99	5.84	20.53	6.23	937	190.5	31.8	0.12
MW-2	9/6/02	--	9/6/02	NA	14.91	20.50	5.59	22.25	6.47	1538	-82.3	1.6	0.00
MW-3	9/6/02	--	9/6/02	NA	16.95	22.29	5.34	22.04	6.25	694	194.5	0.0	0.00
MW-4	9/6/02	--	9/6/02	NA	13.46	18.61	5.15	22.25	6.58	1673	-0.5	0.0	0.00
MW-5	9/6/02	--	9/6/02	NA	13.18	18.76	5.58	22.34	6.77	1745	-124.2	92.7	0.00
MW-6	9/6/02	4	9/6/02	NA	14.69	18.91	4.22	NA	NA	NA	NA	NA	NA
MW-7	9/6/02	--	9/6/02	NA	16.16	20.39	4.23	23.08	6.59	1176	-128.0	6.1	0.00
MW-8	9/6/02	--	9/6/02	NA	17.26	21.12	3.86	22.60	6.46	603	127.2	37.2	2.29
MW-9	9/6/02	--	9/6/02	NA	16.13	19.20	3.07	22.77	6.58	1104	135.4	14.4	0.00

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

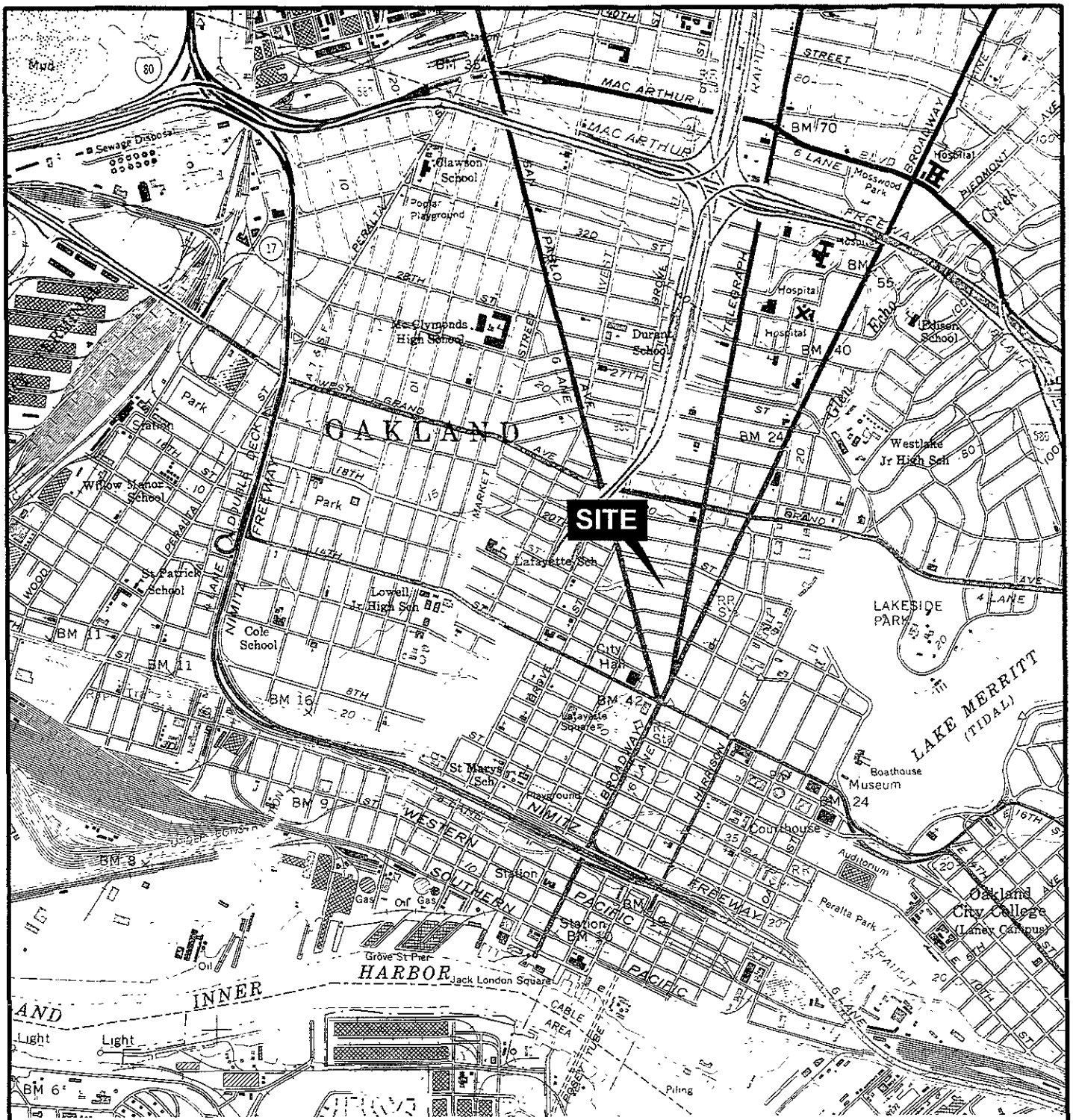
Monitoring Well No.	Sample Date	Notes	LABORATORY ANALYTICAL RESULTS																	
			8015M			Volatile Organics by GC/MS 8260B														
			TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	PCE (µg/L)	TCE (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	
MW-1	9/6/02	--	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	32.3	< 2.5	< 5.0	< 5.0	< 5.0	
MW-2	9/6/02	--	71	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	15.7	< 2.5	2.7	9.7	< 5.0	< 5.0	
MW-3	9/6/02	--	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	28.0	9.3	< 5.0	< 5.0	< 5.0	
MW-4	9/6/02	--	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	
MW-5	9/6/02	--	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	
MW-6	9/6/02	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-7	9/6/02	--	15,600	< 500	< 2000	11,500	< 1.0	< 1.0	515	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	
MW-7	9/6/02	1	17,400	< 500	< 2000	11,300	< 1.0	< 1.0	510	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	
MW-8	9/6/02	4	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	4.5	< 2.5	< 5.0	< 5.0	< 5.0	
MW-9	9/6/02	--	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	28.1	10.6	24.2	< 5.0	< 5.0	

Notes:

1: Duplicate sample
2: Petroleum odor in groundwater
3: Well casing is damaged
4 Well not Sampled
J - Bunker-C detections were quatitated against the diesel standard and flagged as estimated concentrations
< - Analyte not detected above indicated method detection limit
NA: Not analyzed/Not available

BTEX = Volatile aromatic constituents Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020/8021B or 8260B
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)
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
cis-1,2-DCE - CIS-1,2-Dichloroethene
1,1-DCE - 1,1 Dichloroethene

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.

URS

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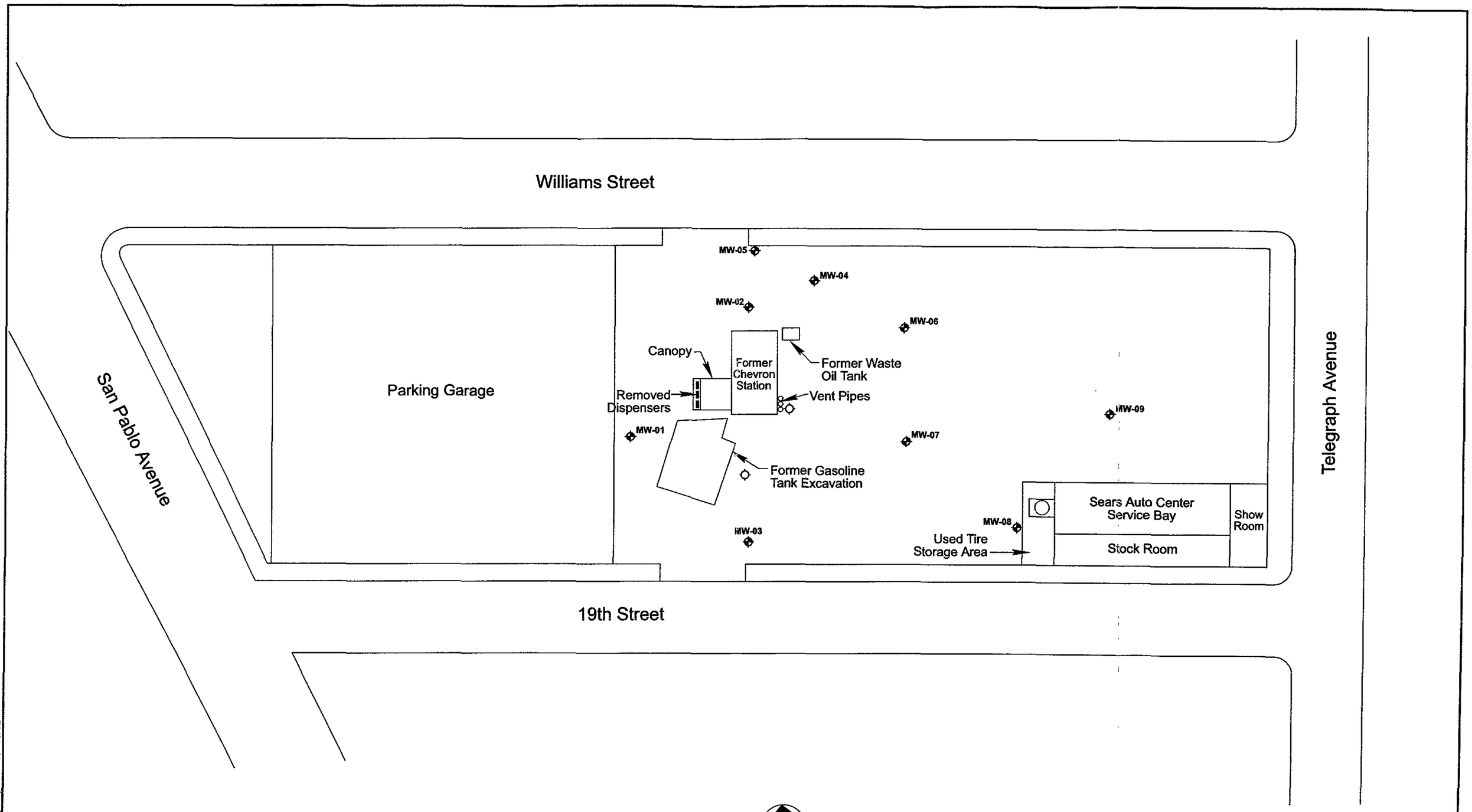


EXPLANATION

MW-15 **MONITORING WELL LOCATION**

PROPOSED MONITORING WELL LOCATION

0 25 50

Scale in Feet

PLOT PLAN

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

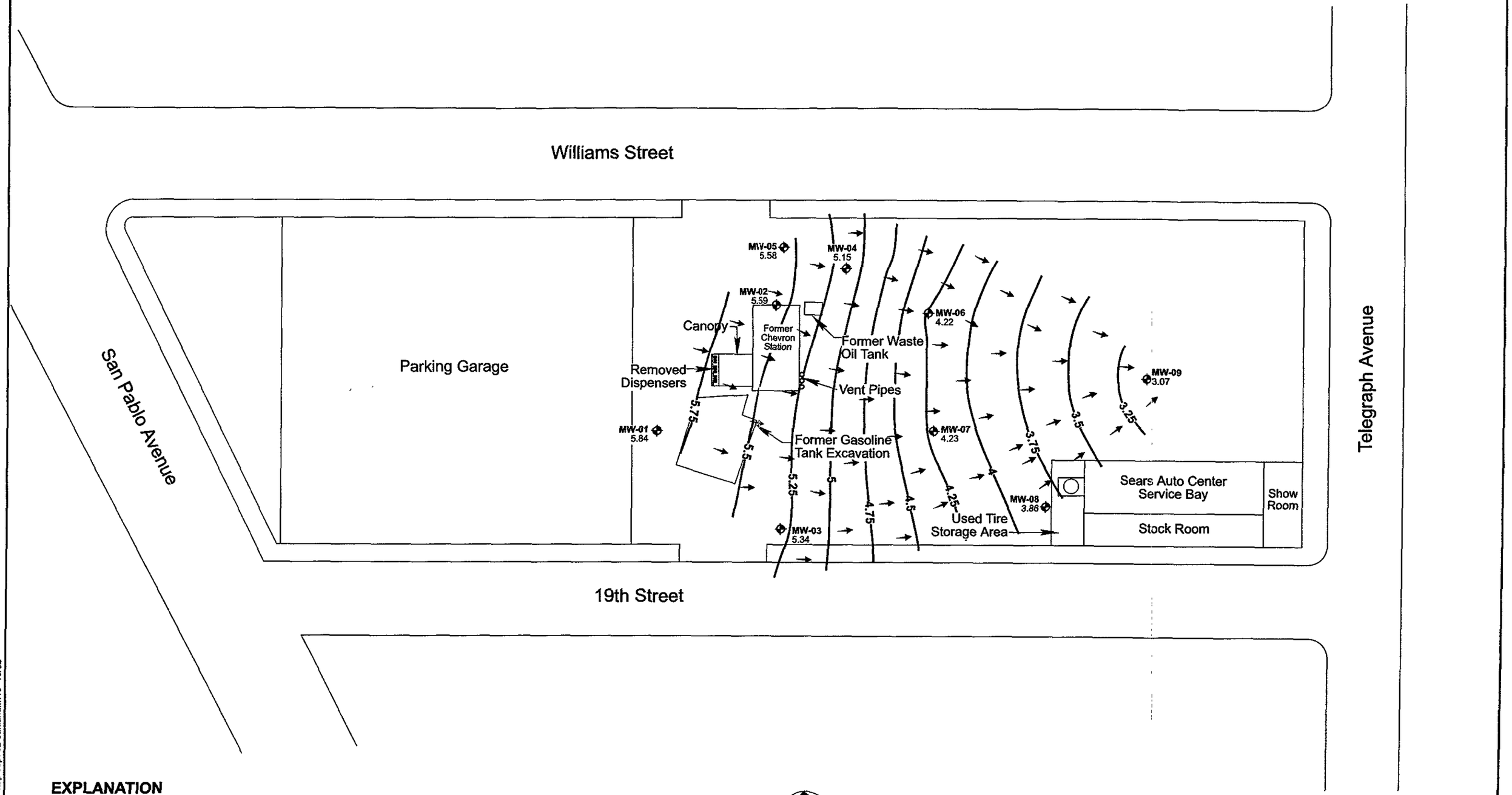
Project No.: 29863493

Date: DECEMBER 2002

Figure 2

URS

L:/Sears oakland/oakland plot plan.fh10 10/02



EXPLANATION

- MW-15 ◆ MONITORING WELL LOCATION
- GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- 5.84 GROUNDWATER ELEVATION

0 25 50
Scale in Feet

GROUNDWATER GRADIENT MAP (SEPTEMBER 2002)

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

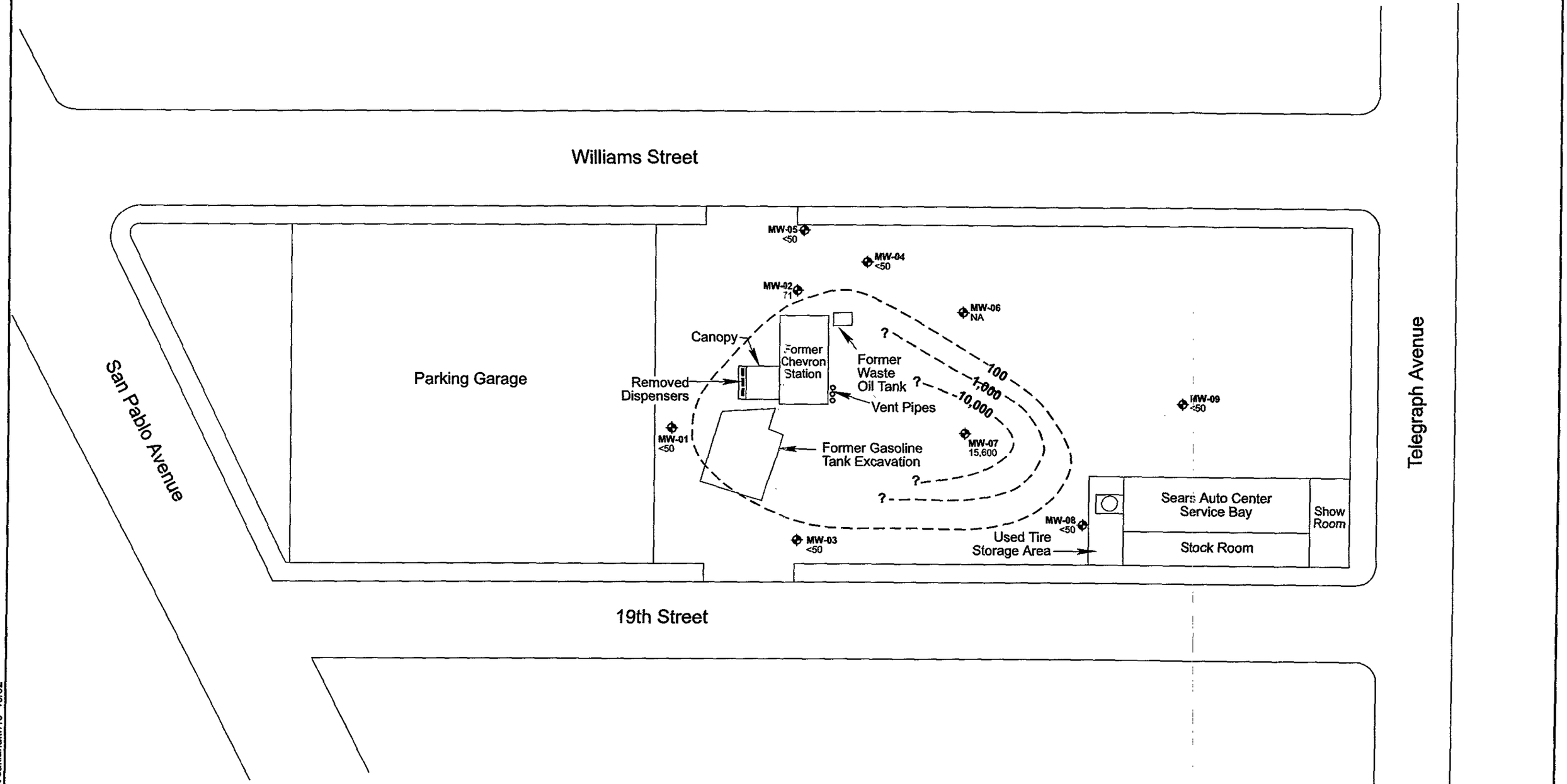
Project No.: 29863493

Date: DECEMBER 2002

Figure 3

URS

L:/Sears Oakland/GW gradient map sept 02 oakland.fh10 10/02



EXPLANATION

MW-02 ◆ 15,600 — MONITORING WELL LOCATION WITH TPHg CONCENTRATION IN µg/L

— –100– — TPHg CONCENTRATION

0 25 50

Scale in Feet

TPHg ISOCONCENTRATION CONTOUR PLOT PLAN MAP (SEPTEMBER 2002)

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

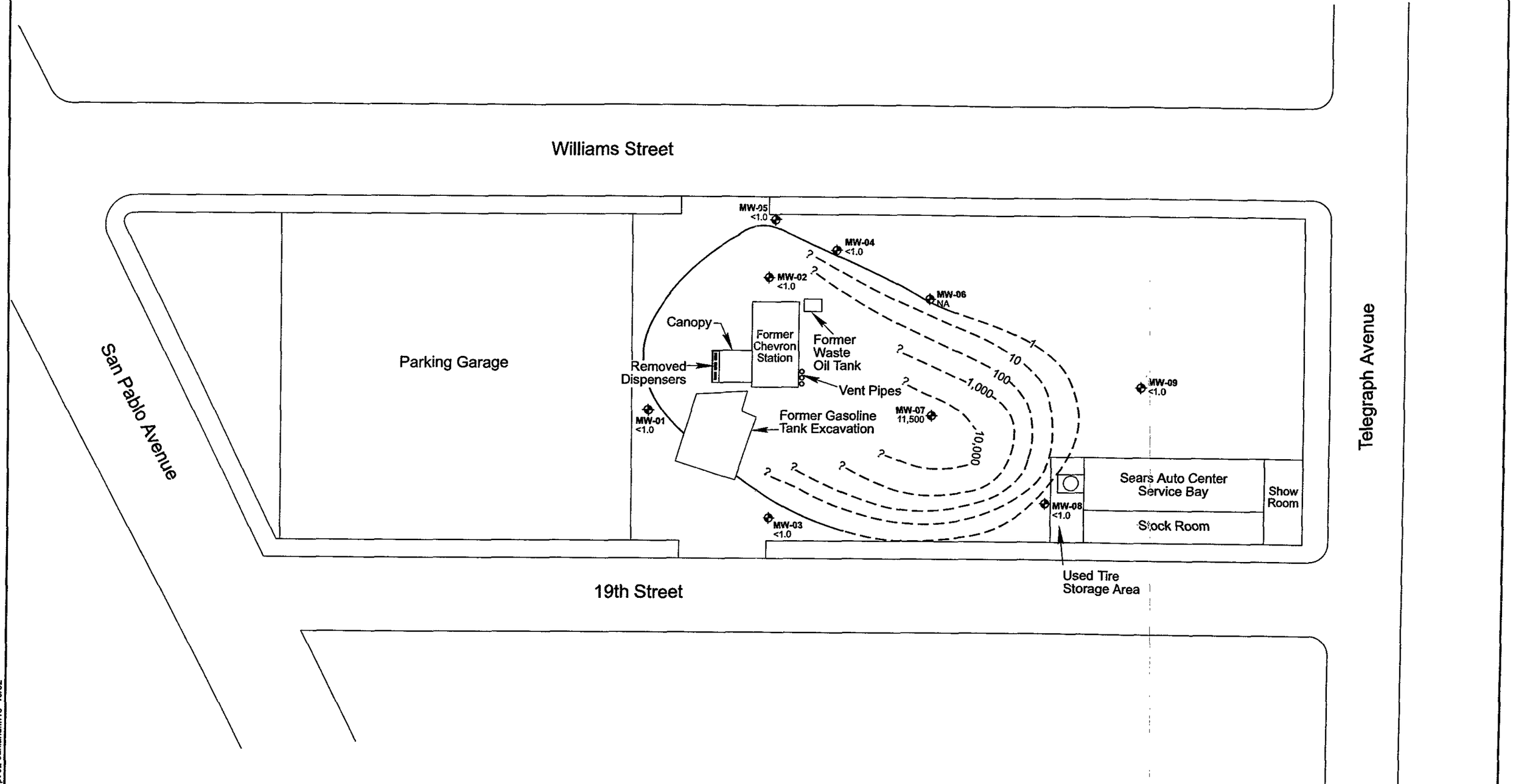
Project No.: 29863493

Date: DECEMBER 2002

Figure 4

URS

L:/Sears Oakland/TPHG iso 02 sept oakland.fh10 10/02



EXPLANATION

MW-07 11,500 — MONITORING WELL LOCATION WITH BENZENE CONCENTRATION IN µg/L

--10-- BENZENE CONCENTRATION

0 25 50

Scale in Feet

BENZENE ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2002)

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

Project No.: 29863493

Date: DECEMBER 2002

Figure 5

URS

L/Sears oakland/benzene iso sept 02 oakland.fh10 10/02

APPENDIX A

SWRCB GEOTRACKER SITE DATA

Leaking Underground Fuel Tank Report

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
(Show this Site on Map)

Regional Board - Case #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)
Local Agency (lead agency) - Case #: 1630
ALAMEDA COUNTY LOP - (UNK)

Choose a Report To View

Site Info:
- Regulatory History
- Locational Information
- Analytical Data

Leak Info:
- Detailed Release Information
- Remediation on Site

Additional Info:
- **0 Monitoring Wells For This LUFT Site**
- **0 Public Water Well(s) Estimated to be Within 1/2 Mile of this LUFT Site**

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

Detailed Release Information

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
(Show this Site on Map)

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SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)
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

Description:
STAT 8 FROM LOP. CLOSURE DATE MISSING.

SUBSTANCES RELEASED:

Begin Date	Substance	Quantity
UNKNOWN	WASTE OIL	

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Remediation On Site

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
(Show this Site on Map)

Regional Board - Case #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
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ALAMEDA COUNTY LOP - **(UNK)**

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

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Regulatory History

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
(Show this Site on Map)

Regional Board - Case #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 1630
ALAMEDA COUNTY LOP - **(UNK)**

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

Locational Information

CHEVRON (OAKLAND)
1911 TELEGRAPH AVE
OAKLAND , CA 94612
(Show this Site on Map)

Regional Board - Case #: 01-0336
SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)
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

APPENDIX B

HISTORICAL GROUNDWATER MONITORING RESULTS

Appendix B
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 1 of 4)

					GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS																	
Well No.	Sample No.	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	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
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	--	--	--	--	24	< 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	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	27.1	< 2.5	< 5.0	< 5.0	< 5.0
MW-1	MW-1	2	9/6/2002	Sep-02	15.15	0.00	20.99	5.84	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	32.3	< 2.5	< 5.0	< 5.0	< 5.0
MW-2	MW-2	5	10/1/1995	Oct-95	--	--	95.95	--	µg/L	2,900	--	--	1,300	5.4	41	5.9	--	--	--	--	--	ND	40	350	--	--
MW-2	MW-2	5	1/1/1996	Jan-96	--	--	95.95	--	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	95.95	79.94	µg/L	2,600	--	--	890	7.0	56	10	--	--	--	--	--	< 3	40	160	--	--
MW-2	MW-2	5	9/5/1996	Sep-96	16.66	0.00	95.95	77.29	µg/L	3,100	--	--	350	3.6	17	10	< 5.0	--	--	--	--	< 0.5	25	58	3.9	38
MW-2	MW-2	5	12/3/1996	Dec-96	16.20	0.00	95.95	77.75	µg/L	1,700	--	--	230	2.4	7.8	7	40	--	--	--	--	< 0.5	20	46	2	< 0.5
MW-2	MW-2	5	2/27/1997	Feb-97	14.46	0.00	95.95	79.49	µg/L	1,000	--	--	210	2.2	6	3	12	--	--	--	--	1	15	43	< 0.5	< 0.5
MW-2	MW-2	5	6/10/1997	Jun-97	14.00	0.00	95.95	79.95	µg/L	1.8	--	--	510	3.0	6	< 10	< 20	--	--	--	--	1	19	47	4.9	< 0.5
MW-2	MW-2	5	8/27/1997	Aug-97	16.55	0.00	95.95	77.40	µg/L	480	--	--	53	< 0.5	1.4	< 3	11	--	--	--	--	0.5	16	29	4.8	< 0.5
MW-2	MW-2	5	11/26/1997	Nov-97	16.06	0.00	95.95	77.89	µg/L	1,200	--	--	380	5.0	9	12	< 30	--	--	--	--	1	13	35	5.1	< 0.5
MW-2	MW-2	5	2/11/1998	Feb-98	15.85	0.00	95.95	78.10	µg/L	1,100	--	--	310	4.0	9.5	9	4	--	--	--	--	< 0.5	16	< 0.5	2.6	0.6
MW-2	MW-2	5	5/19/1998	May-98	15.32	0.00	95.95	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	95.95	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	95.95	77.42	µg/L	440	--	--	57	0.6	1.7	< 0.5	< 2.5	--	--	--	--	< 0.5	12	25	2.3	< 0.5
MW-2	MW-2	5	2/8/1999	Feb-99	--	--	95.95	--	µg/L	480	--	--	140	2.3	6.9	5	31	--	--	--	--	< 0.5	11	36	1.4	< 0.5
MW-2	MW-2	5	2/11/1999	Feb-99	16.38	0.00	95.95	77.57	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	MW-2	5	5/10/1999	May-99	15.59	0.00	95.95	78.36	µg/L	350	--	--	260	2.2	7.9	4.3	16*<2.0	--	--	--	--	< 0.5	7	24	3.4	< 0.5
MW-2	MW-2	5	8/9/1999	Aug-99	16.09	0.00	95.95	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	95.95	77.75	µg/L	320	--	--	63	0.68	0.65	1.1	11/<2.0	--	--	--	--	< 0.5	15	41	3.3	< 0.5
MW-2	MW-2	5	2/1/2000	Feb-00	16.09	0.00	95.95	77.86	µg/L	1200	--	--	610/590*	4.4/4.9*	6.6/6.5*	5.9/7.1*	< 0.5	--	--	--	--	< 0.5	16	39	2	< 0.5
MW-2	MW-2	5	5/2/2000	May-00	14.90	0.00	95.95	79.05	µg/L	330	--	--	540/600*	2.3/<5.0*	15/16*	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	95.95	78.70	µg/L	410	--	--	110	1.1	4.8	1.6	< 0.5	--	--	--	--	< 0.5	9.4	25	2.9	< 0.5
MW-2	MW-2	5	11/6/2000	Nov-00	15.46	0.00	95.95	78.50	µg/L	480	--	--	190/190*	20/20*	4.1/3.7*	1.1/1.0*	30	--	--	--	--	< 0.5	10	28	1.6	< 0.5
MW-2	MW-2	5	2/16/2001	Feb-01	15.50	0.00	95.95	78.45	µg/L	440	--	--	260/290*	4.4/4.1*	1.9/1.7*	4.4/4.1*	< 0.5	--	--	--	--	< 0.5	11	19	2.5	< 0.5
MW-2	MW-2	5	4/27/2001	Apr-01	14.83	0.00	95.95	79.12	µg/L	770	--	--	450/510	3.3/3.3	3.4/10	4.3/7.2	< 0.5	--	--	--	--	< 0.5	6.4	17	4.0	< 0.5
MW-2	MW-2	5	7/24/2001	Jul-01	16.18	0.00	95.95	78.77	µg/L	490	--	--	130/120	1.3/1.6	1.8/0.1	4.5/5.8	< 0.5	--	--	--	--	< 0.5	9.2	15	3.9	< 0.5
MW-2	MW-2	2	3/28/2002	Mar-02	14.41	0.00	95.95	79.54	µg/L	480	< 50	< 500	620	0.50	19	14	< 5.0	--	--	--	--	< 0.50	5.1	8.5	< 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	2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	16.7	< 2.50	4.6	8.5	< 5.0	< 5.0
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	1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	15.7	< 2.50	2.7	9.7	< 5.0	< 5.0
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	--	--

G:\128\Sears_128\Oakland 1039\QM2 2002\GW data.xls\Appendix A

Appendix B
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California

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
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	< 1.0	< 1.0	< 1.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 10.0	20.9	4.5	< 5.0	< 5.0	< 5.0
MW-3	MW-3	2	9/6/2002	Sep-02	16.95	0.00	22.29	5.34	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 10.0	28.0	9.3	< 5.0	< 5.0	< 5.0
MW-4	MW-4	5	10/1/1995	Oct-95	--	0.00	92.01	--	µg/L	<50	--	--	4.1	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	--
MW-4	MW-4	5	1/1/1996	Jan-96	--	0.00	92.01	--	µg/L	<50	--	--	5.4	ND	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	310	--	< 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	30	--	< 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	16		--		--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	2/27/1997	Feb-97	12.44	0.00	92.01	79.57	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	63	--	< 9000	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	7.3	< 0.5	< 0.5	< 0.5	5.9(<1.0)*	--	--	--	--	< 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		900	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	4.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	8/1/2000	Aug-00	13.70	0.00	92.01	78.31	µg/L	<50	--	< 1000	0.8	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	11/6/2000	Nov-00	14.00	0.00	92.01	78.01	µg/L	88	--	< 1000	32	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	2/16/2001	Feb-01	13.65	0.00	92.01	78.36	µg/L	58	--	< 1000	16	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	4/23/2001	Apr-01	13.40	0.00	92.01	78.61	µg/L	< 50	--	< 1000	0.9	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	5	7/24/2001	Jul-01	13.69	0.00	92.01	78.32	µg/L	< 50	--	< 1000	0.7	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	MW-4	3	3/27/2002	Mar-02	13.22	0.00	92.01	78.79	µg/L	< 50	< 50	< 500	1.4	< 0.50	< 0.50	< 1.0	< 5.0	--	--	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-4	MW-4	2	6/5/2002	Jun-02	12.96	0.00	18.61	5.61	µg/L	< 50	< 500	< 2000	3.1	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-4	MW-4	2	9/6/2002	Sep-02	13.46	0.00	18.61	5.15	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-5	MW-5	5	10/1/1995	Oct-95	--	0.00	92.09	--	µg/L	260	--	--	86	ND	ND	ND	--	--	--	--	--	ND	ND	ND	--	--
MW-5	MW-5	5	1/1/1996	Jan-96	--	0.00	92.09	--	µg/L	180	--	--	160	3.6	ND	ND	--	--	--	--	--	ND	ND	ND	--	--
MW-5	MW-5	5	6/12/1996	Jun-96	14.13	0.00	92.09	77.96	µg/L	260	--	--	54	1.1	< 0.5	< 2	--	--	--	--	--	< 0.5	< 0.5	< 0.5	--	--
MW-5	MW-5	5	9/5/1996	Sep-96	14.77	0.00	92.09	77.32	µg/L	160	--	--	22	1.0	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	--	--
MW-5	MW-5	5	12/3/1996	Dec-96	13.99	0.00	92.09	78.10	µg/L	170	--	--	18	0.6	< 0.5	< 2	6	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/27/1997	Feb-97	12.08	0.00	92.09	80.01	µg/L	230	--	--	74	2.0	< 0.5	< 2	< 5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	6/10/1997	Jun-97	16.00	0.00	92.09	76.09	µg/L	1,200	--	--	490	19.0	< 3.0	< 10	< 30	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	8/27/1997	Aug-97	14.55	0.00	92.09	77.54	µg/L	340	--	--	100	4.6	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Appendix B
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 3 of 4)

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
MW-5	MW-5	5	11/26/1997	Nov-97	14.95	0.00	92.09	77.14	µg/L	400	--	--	78	4.5	0.6	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/11/1998	Feb-98	13.97	0.00	92.09	78.12	µg/L	320	--	--	62	2.9	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	5/19/1998	May-98	13.52	0.00	92.09	78.57	µg/L	330	--	--	97	2.6	< 0.5	< 2	< 5.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	8/10/1998	Aug-98	13.97	0.00	92.09	78.12	µg/L	190	--	--	48	1.9	< 0.5	< 0.5	11	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	11/9/1998	Nov-98	14.67	0.00	92.09	77.42	µg/L	81	--	--	3.8	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/8/1999	Feb-99	--	--	92.09	--	µg/L	82	--	--	3	< 0.5	< 0.5	< 0.5	3.8	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/11/1999	Feb-99	14.50	0.00	92.09	77.59	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	MW-5	5	5/10/1999	May-99	13.23	0.00	92.09	78.86	µg/L	< 50	--	--	6.8	< 0.5	< 0.5	< 0.5	2.6/<2.0*	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	8/9/1999	Aug-99	13.90	0.00	92.09	78.19	µg/L	150	--	--	25	< 0.5	< 0.5	< 0.5	5.6<2.0*	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	11/5/1999	Nov-99	14.40	0.00	92.09	77.69	µg/L	160	--	--	20	< 0.5	< 0.5	0.76	4.3/<2.0*	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/1/2000	Feb-00	14.15	0.00	92.09	77.94	µg/L	180	--	--	42	1.2	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	5/2/2000	May-00	13.10	0.00	92.09	78.99	µg/L	120	--	--	12	0.7	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	8/1/2000	Aug-00	13.52	0.00	92.09	78.57	µg/L	69	--	--	11	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	11/6/2000	Nov-00	13.93	0.00	92.09	78.16	µg/L	72	--	--	7.0	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	2/16/2001	Feb-01	13.75	0.00	92.09	78.34	µg/L	< 50	--	--	1.6	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	4/27/2001	Apr-01	12.95	0.00	92.09	79.14	µg/L	< 50	--	--	3.1	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	5	7/24/2001	Jul-01	13.46	0.00	92.09	78.63	µg/L	< 50	--	--	3.8	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-5	MW-5	2	3/27/2002	Mar-02	12.43	0.00	92.09	79.66	µg/L	81	70	< 500	< 0.50	< 0.50	< 0.5	< 1.0	< 5.0	--	--	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
MW-5	MW-5	2	6/5/2002	Jun-02	12.68	0.00	18.76	6.08	µg/L	50	< 500	< 2000	2.0	< 1.0	< 1.0	< 2.0	< 2.0	--	--	--	--	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-5	MW-5	2,3	6/5/2002	Jun-02	12.68	0.00	18.76	6.08	µg/L	59	< 500	< 2000	2.5	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-5	MW-5	2	9/6/2002	Sep-02	13.18	0.00	18.76	5.58	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-6	MW-6	5	10/1/1995	Oct-95	--	0.00	92.16	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	6.1	11	33	--	--
MW-6	MW-6	5	1/1/1996	Jan-96	--	0.00	92.16	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	7.2	12	5.5	--	--
MW-6	MW-6	5	6/12/1996	Jun-96	14.99	0.00	92.16	77.17	µg/L	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 1	--	--	--	--	--	3.6	5	7.5	--	--
MW-6	MW-6	5	9/5/1996	Sep-96	15.50	0.00	92.16	76.66	µg/L	< 50	--	< 0.5	0.5	< 0.5	< 0.5	< 2	< 5	--	--	--	--	5.4	5.3	7.6	--	--
MW-6	MW-6	5	12/3/1996	Dec-96	15.07	0.00	92.16	77.09	µg/L	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 5	--	--	--	--	4.9	0.6	0.5	< 0.5	< 0.5
MW-6	MW-6	5	2/27/1997	Feb-97	14.14	0.00	92.16	78.02	µg/L	< 50	--	< 500	< 0.5	< 0.5	< 0.5	< 2	< 5	--	--	--	--	1.3	0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	6/10/1997	Jun-97	15.30	0.00	92.16	76.86	µg/L	< 50	--	--	0.9	< 0.5	< 0.5	< 1	< 5	--	--	--	--	1	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	8/27/1997	Aug-97	15.42	0.00	92.16	76.74	µg/L	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 5	--	--	--	--	0.9	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	11/26/1997	Nov-97	15.70	0.00	92.16	76.46	µg/L	< 50	--	< 500	15	0.9	9.1	< 1	7.6	--	--	--	--	1.2	0.6	0.8	< 0.5	< 0.5
MW-6	MW-6	5	2/11/1998	Feb-98	14.87	0.00	92.16	77.29	µg/L	< 50	--	< 500	< 0.5	< 0.5	< 0.5	< 2	< 5	--	--	--	--	0.7	<0.5	0.5	< 0.5	< 0.5
MW-6	MW-6	5	5/19/1998	May-98	14.32	0.00	92.16	77.84	µg/L	< 50	--	< 500	0.6	< 0.5	< 0.5	< 1	< 5	--	--	--	--	0.6	<0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	8/10/1998	Aug-98	14.90	0.00	92.16	77.26	µg/L	< 50	--	5,000	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	0.6	0.59	1.2	< 0.5	< 0.5
MW-6	MW-6	5	11/9/1998	Nov-98	15.39	0.00	92.16	76.77	µg/L	< 50	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	1.2	0.92	1.7	< 0.5	< 0.5
MW-6	MW-6	5	2/8/1999	Feb-99	--	--	92.16	--	µg/L	< 50	--	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	0.95	< 0.5	1.2	< 0.5	< 0.5
MW-6	MW-6	5	2/11/1999	Feb-99	15.21	0.00	92.16	76.95	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	5	5/10/1999	May-99	14.12	0.00	92.16	78.04	µg/L	< 50	--	< 5000	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	8/9/1999	Aug-99	15.00	0.00	92.16	77.16	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	0.53	< 0.5	< 0.5	< 0.5	< 0.5
MW-6	MW-6	5	11/5/1999	Nov-99	15.55	0.00	92.16	76.61	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	--	--	--	--	0.99	0.89	1.2	< 0.5	< 0.5
MW-6	MW-6	5	2/1/2000	Feb-00	15.40	0.00	92.16	76.76	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	1.2	0.9	3.3	< 0.5	< 0.5
MW-6	MW-6	5	5/2/2000	May-00	14.55	0.00	92.16	77.61	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	2.4	0.8	1.3	< 0.5	< 0.5
MW-6	MW-6	5	8/1/2000	Aug-00	14.85	0.00	92.16	77.31	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	0.8	0.9	1.3	< 0.5	< 0.5
MW-6	MW-6	5	11/6/2000	Nov-00	15.10	0.00	92.16	77.06	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	0.9	0.8	5.5	< 0.5	< 0.5
MW-6	MW-6	5	2/16/2001	Feb-01	14.93	0.00	92.16	77.23	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	0.9	1.1	6.2	< 0.5	< 0.5
MW-6	MW-6	5	4/27/2001	Apr-01	14.40	0.00	92.16	77.76	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	0.7	0.7	3.9	< 0.5	< 0.5
MW-6	MW-6	5	7/24/2001	Jul-01	14.68	0.00	92.16	77.48	µg/L	< 50	--	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	0.6	1	4.8	< 0.5	< 0.5
MW-6	MW-6	4	3/27/2002	Mar-02	14.09	0.00	92.16	78.07	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	4	6/5/2002	Jun-02	14.26	0.00	18.91	4.65	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	MW-6	4	9/5/2002	Sep-02	14.43	0.00	18.91	4.48	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	MW-7	5	10/1/1995	Oct-95	--	0.00	93.80	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	5.3	3.5	8.3	--	--
MW-7	MW-7	5	1/1/1996	Jan-96	--	0.00	93.80	--	µg/L	< 50	--	--	ND	ND	ND	ND	--	--	--	--	--	9.3	4.8	5.7	--	--
MW-7	MW-7	5	6/12/1996	Jun-96	16.56	0.00	93.80	77.24	µg/L	< 50	--	--	0.6	< 0.5	< 0.5	< 2	--	--	--	--	--	6.1	3.4	2.9	--	--
MW-7	MW-7	5	9/5/1996	Sep-96	17.10	0.00	93.80	76.70	µg/L	< 50	--	--	1.2	< 0.5	< 0.5	< 2	< 5	--	--	--	--	8.3	4.2	5.9	--	--
MW-7	MW-7	5	12/3/1996	Dec-96	17.12	0.00	93.80	76.68	µg/L	120	--	< 0.5	850	< 5	< 5	30	< 5	--	--	--	--	4	4	75	< 3	< 3
MW-7	MW-7	5	2/27/1997	Feb-97	16.20	0.00	93.80	77.60	µg/L	2,500	--	--	1500	3.0	23	< 10	< 30	--	--	--	--	2	4	65	< 0.5	< 0.5
MW-7	MW-7	5	6/10/1997	Jun-97	17.00	0.00	93.80	76.80	µg/L	3,200	--	--	1700	< 5	59	< 20	< 50	--	--	--	--	2	4.2	85	< 0.5	< 0.5
MW-7	MW-7	5	8/27/1997	Aug-97	17.18	0.00	93.80	76.62	µg/L	3,900	--	--	1700	8.0	200	40	90	--	--	--	--	< 3	5	93	< 3	< 3
MW-7	MW-7	5	11/26/1997	Nov-97	17.40	0.00	93.80	76.40	µg/L	5,600	--	--	3,100	15.0	190	30	90	--	--	--	--	3	5.9	120	1	< 0.5
MW-7	MW-7	5	2/11/1998	Feb-98	16.65	0.00	93.80	77.15	µg/L	8,500	--	--	3,800	25.0	250	80	90	--	--	--	--	4	8.9	93	1.2	< 0.5
MW-7	MW-7	5	5/19/1998	May-98	15.96	0.00	93.80	77.84	µg/L	5,000	--	--	2,100	440.0	150	220	300	--	--	--	--	2	3.8	74	0.6	< 0.5

Appendix B
Historical Groundwater Monitoring Results
Sears Auto Center # 1039
Oakland California
(Page 4 of 4)

					GROUNDWATER LEVELS				LABORATORY ANALYTICAL RESULTS																
Well No.	Sample No.	Notes	Sample Date	Sample Period	Depth to Groundwater (ft bgs)	Stand Prod Thickness (ft)	Casing Elevation (ft MSL)	Groundwater Elevation (ft MSL)	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
MW-7	MW-7	5	8/10/1998	Aug-98	16.48	0.00	93.80	77.32	µg/L	1,600	--	--	690	< 10	13	< 10	< 50	--	--	--	--	< 3	3.3	100	< 2.5	< 2.5
MW-7	MW-7	5	11/9/1998	Nov-98	16.98	0.00	93.80	76.82	µg/L	930	--	--	295	5.5	4.3	1.5	8.7	--	--	--	--	4.2	6.5	110	< 2.5	< 2.5
MW-7	MW-7	5	2/8/1999	Feb-99	--	--	93.80	--	µg/L	1,500	--	--	670	< 10	14	<10	< 50	--	--	--	--	6	3.4	74	< 1.2	< 1.2
MW-7	MW-7	5	2/11/1999	Feb-99	16.94	0.86	93.80	76.86	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	MW-7	5	5/10/1999	May-99	15.87	0.00	93.80	77.93	µg/L	2,800	--	--	1,800	16.0	81	130	63/<2.0*	--	--	--	--	1	2.6	65	0.63	< 0.5
MW-7	MW-7	5	8/9/1999	Aug-99	16.60	0.00	93.80	77.20	µg/L	1,500	--	--	570	5.1	28	30	300/6.5*	--	--	--	--	< 1	1.2	95	0.57	< 0.5
MW-7	MW-7	5	11/5/1999	Nov-99	17.01	0.00	93.80	76.79	µg/L	2,100	--	--	1,200	<5	61	25	150/11*	--	--	--	--	4	7.8	95	1.6	< 0.5
MW-7	MW-7	5	2/1/2000	Feb-00	17.00	0.00	93.80	76.80	µg/L	4,600	--	--	2,600	16.0	140	210	6.6	--	--	--	--	3	6	110	1.7	< 0.5
MW-7	MW-7	5	5/2/2000	May-00	16.00	0.00	93.80	77.80	µg/L	4,200	--	--	2,700	25	80	270	< 5.0	--	--	--	--	< 5.0	< 5.0	84	< 5.0	< 5.0
MW-7	MW-7	5	8/1/2000	Aug-00	16.40	0.00	93.80	77.40	µg/L	5,600	--	--	5,500	27	300	390	< 10	--	--	--	--	< 10	< 10	85	< 10	< 10
MW-7	MW-7	5	11/6/2000	Nov-00	16.67	0.00	93.80	77.13	µg/L	6,000	--	--	3,400	29	230	330	< 10	--	--	--	--	< 10	< 10	66	< 10	< 10
MW-7	MW-7	5	2/16/2001	Feb-01	16.60	0.00	93.80	77.20	µg/L	4,400	--	--	3,400	27	200	290	3.1	--	--	--	--	< 2	< 2	60	< 2	< 2
MW-7	MW-7	5	4/27/2001	Apr-01	16.00	0.00	93.80	77.80	µg/L	6,100	--	--	6,000	44	390	620	2.7	--	--	--	--	< 2.5	< 2.5	37	< 2.5	< 2.5
MW-7	MW-7	5	7/24/2001	Jul-01	16.23	0.00	93.80	77.58	µg/L	6,000	--	--	4,500	16	390	840	< 2.0	--	--	--	--	< 2.0	< 2.0	39	< 2.0	< 2.0
MW-7	MW-7	5	3/27/2002	Mar-02	15.74	0.00	93.80	78.06	µg/L	34,000	570	< 500	6,400	< 50	230	370	< 500	--	--	--	--	< 50.0	< 50	< 50	< 50.0	< 50.0
MW-7	MW-7	2	3/27/2002	Mar-02	15.74	0.00	93.80	78.06	µg/L	27,000	740	< 500	6,500	< 50	280	500	< 500	--	--	--	--	< 50.0	< 50	< 50	< 50.0	< 50.0
MW-7	MW-7	2	6/5/2002	Jun-02	15.71	0.00	20.39	4.68	µg/L	12,100	< 500	< 2000	8,700	25	173	510	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.5	< 5.0	< 5.0	< 5.0
MW-7	MW-7	2	9/6/2002	Sep-02	16.16	0.00	20.39	4.23	µg/L	15,600	< 500	< 2000	11,500	< 1.0	< 1.0	515	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-7	MW-7	2,3	9/6/2002	Sep-02	16.16	0.00	20.39	4.23	µg/L	17,400	< 500	< 2000	11,300	< 1.0	< 1.0	510	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
MW-8	MW-8	5	11/5/1999	Nov-99	18.38	0.00	94.49	76.11	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	2/1/2000	Feb-00	18.10	0.00	94.49	76.39	µg/L	< 50	--	--	0.6	< 0.5	< 0.5	< 0.5	< 0.5*	--	--	--	--	1.8	0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	5/2/2000	May-00	17.24	0.00	94.49	77.25	µg/L	< 50	--	--	1.1	< 0.5	< 0.5	< 0.5	< 0.5*	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	8/1/2000	Aug-00	17.03	0.00	94.49	76.97	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	11/6/2000	Nov-00	17.50	0.00	94.49	76.99	µg/L	< 50	--	--	1.3	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	2/16/2001	Feb-01	17.34	0.00	94.49	77.15	µg/L	< 50	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-8	MW-8	5	4/27/2001	Apr-01	16.97	0.00	94.49	77.52	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	MW-8	5	7/24/2001	Jul-01	16.81	0.00	21.18	4.37	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	MW-8	5	3/27/2002	Mar-02	17.16	0.00	21.12	3.96	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0
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	< 1.0	< 1.0	< 1.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 10.0	33.2	12	< 5.0	< 5.0	< 5.0
MW-9	MW-9	2	9/6/2002	Sep-02	16.13	0.00	19.20	3.49	µg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	28.1	10.6	24.2	< 5.0	< 5.0

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 Hydrocarbons 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 = Separate-phase petroleum hydrocarbons present, not sampled
PCE = Tetrachloroethene
1,2-DCA = 1,2-Dichloroethane
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2 Dichloroethene
1,1-DCE = 1,1-Dichloroethene

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

09-20-2002

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

Project: 29863493/Sears Oakland 1039
Project Site: 1901 Telegraph Ave., Oakland, CA
Sample Date: 09-06-2002
Lab Job No.: UR209047

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 09-08-2002 and analyzed by the following EPA methods:

EPA 8015M (Gasoline)
EPA 8015M (Diesel & Oil)
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.

7801 Telegraph Road Suite L. Montebello. CA 90640 Phone. (323) 888-0728 Fax: (323) 888-1509

Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

Client:	URS Corporation	Lab Job No.:	UR209047
Project:	29863493/Sears Oakland 1039		
Project Site:	1901 Telegraph Ave., Oakland, CA	Date Sampled	09-06-2002
Matrix:	Water	Date Received:	09-08-2002
Batch No.:	AI12-GW1/for Gasoline	Date Analyzed:	09-12-2002
Batch No.:	EI11-DW1/for Diesel & Oil	Date Analyzed:	09-11-2002

EPA 8015M (Gasoline, Diesel & Oil)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			09-12-02	09-12-02	09-12-02	09-12-02	09-12-02
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)			09-11-02	09-11-02	09-11-02	09-11-02	09-11-02
Date of Extraction for TPH (D & O)			09-11-02	09-11-02	09-11-02	09-11-02	09-11-02
Preparation Method for TPH (D & O)			3510C	3510C	3510C	3510C	3510C
LAB SAMPLE I.D.				UR209047-1	UR209047-2	UR209047-3	UR209047-4
CLIENT SAMPLE I.D.				MW-1	MW-2	MW-3	MW-4
Analyte		**MDL**	**MB**				
TPH-Gasoline (C4 - C12)		50	ND	ND	71	ND	ND
TPH-Diesel (C13 - C23)		500	ND	ND	ND	ND	ND
TPH-Oil (C24 - C40)		2000	ND	ND	ND	ND	ND
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	125	130	85	127	129
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	116	100	89	91	86

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.

7801 Telegraph Road Suite L, Montebello, CA 90640 Phone: (323) 888-0728 Fax: (323) 888-1509

Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

Client:	URS Corporation	Lab Job No.:	UR209047
Project:	29863493/Sears Oakland 1039		
Project Site:	1901 Telegraph Ave., Oakland, CA	Date Sampled	09-06-2002
Matrix:	Water	Date Received:	09-08-2002
Batch No.:	AI12-GW1/for Gasoline	Date Analyzed:	09-12-2002
Batch No.:	EI11-DW1/for Diesel & Oil	Date Analyzed:	09-11-2002

EPA 8015M (Gasoline, Diesel & Oil)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			09-12-02	09-12-02	09-12-02	09-12-02	09-12-02
Preparation Method for TPH (Gasoline)			5030	5030	5030	5030	5030
Date of Analysis for TPH (D & O)			09-11-02	09-11-02	09-11-02	09-11-02	09-11-02
Date of Extraction for TPH (D & O)			09-11-02	09-11-02	09-11-02	09-11-02	09-11-02
Preparation Method for TPH (D & O)			3510C	3510C	3510C	3510C	3510C
LAB SAMPLE I.D.			UR209047-5	UR209047-6	UR209047-7	UR209047-8	UR209047-9
CLIENT SAMPLE I.D.			MW-5	MW-7	MW-8	MW-9	DUP-1
Analyte		**MDL**					
TPH-Gasoline (C4 - C12)		50	ND	15,600	ND	ND	17,400
TPH-Diesel (C13 - C23)		500	ND	ND	ND	ND	ND
TPH-Oil (C24 - C40)		2000	ND	ND	ND	ND	ND
Surrogate	Spk Conc.	ACP%	%RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	130	124	77	108	121
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	89	90	87	87	96

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:

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Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

Client:	URS Corporation	Lab Job No.:	UR209047
Project:	29863493/Sears Oakland 1039		
Project Site:	1901 Telegraph Ave., Oakland, CA	Date Sampled	09-06-2002
Matrix:	Water	Date Received:	09-08-2002
Batch No.:	AI12-GW1/for Gasoline	Date Analyzed:	09-12-2002

EPA 8015M (Gasoline, Diesel & Oil)
Reporting Unit: µg/L (ppb)

Date of Analysis for TPH (Gasoline)			09-12-02	09-12-02	09-12-02		
Preparation Method for TPH (Gasoline)			5030	5030	5030		
Date of Analysis for TPH (D & O)			09-11-02				
Date of Extraction for TPH (D & O)			09-11-02				
Preparation Method for TPH (D & O)			3510C				
LAB SAMPLE I.D.				UR209047-10	UR209047-11		
CLIENT SAMPLE I.D.				EB-1	TB		
Analyte		**MDL**	**MB**				
TPH-Gasoline (C4 - C12)		50	ND	ND	ND		
TPH-Diesel (C13 - C23)		500	ND	NA	NA		
TPH-Oil (C24 - C40)		2000	ND	NA	NA		
Surrogate	Spk Conc.	ACP%	MB %RC	%RC	%RC		
BFB (for TPH-Gasoline)	20 ppb	70-130	125	81	106		
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	116				

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.

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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863493/Sears Oakland 1039

Lab Job No.: UR209047
Matrix: Water

Date Reported: 09-20-2002
Date Sampled: 09-06-2002

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

Date ANALYZED		09-14-02	09-14-02	09-14-02	09-14-02	09-14-02	09-14-02	
PREPARATION METHOD		5030	5030	5030	5030	5030	5030	
DILUTION FACTOR		1	1	1	1	1	1	
LAB SAMPLE I.D.			UR209047-1	UR209047-2	UR209047-3	UR209047-4	UR209047-5	
CLIENT SAMPLE I.D.			MW-1	MW-2	MW-3	MW-4	MW-5	
COMPOUND	MDL	MB						
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	
Chloromethane	5	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	
Bromomethane	5	ND	ND	ND	ND	ND	ND	
Chloroethane	5	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	
Iodomethane	5	ND	ND	ND	ND	ND	ND	
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	
Chloroform	5	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	5	ND	ND	9.7	ND	ND	ND	
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	
Benzene	1	ND	ND	ND	ND	ND	ND	
Trichloroethene	2.5	ND	ND	2.7	9.3	ND	ND	
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	
Dibromomethane	5	ND	ND	ND	ND	ND	ND	
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND	ND	
Bromoform	5	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	
Bromobenzene	5	ND	ND	ND	ND	ND	ND	
Toluene	1	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	2.5	ND	32.3	ND	28.0	ND	ND	
1,2-Dibromoethane(EDB)	5	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.: UR209047
Matrix: Water

Date Reported: 09-20-2002
Date Sampled: 09-06-2002

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	
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1	ND	ND	ND	ND	ND	ND	
Total Xylenes	2	ND	ND	ND	ND	ND	ND	
Styrene	5	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethan	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	5	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	
Sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	5	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	5	ND	ND	ND	ND	ND	ND	
Naphthalene	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	
Acetone	25	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	25	ND	ND	ND	ND	ND	ND	
Carbon disulfide	25	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	25	ND	ND	ND	ND	ND	ND	
2-Hexanone	25	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	25	ND	ND	ND	ND	ND	ND	
MTBE	2	ND	ND	ND	ND	ND	ND	
ETBE	2	ND	ND	ND	ND	ND	ND	
DIPE	2	ND	ND	ND	ND	ND	ND	
TAME	2	ND	ND	ND	ND	ND	ND	
t-Butyl Alcohol	10	ND	ND	15.7	ND	ND	ND	
SURROGATE	**SPK Conc.**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**%RC**	**Accept Limit%**
Dibromofluoro-methane	25	82	89	80	94	99	94	79-126
Toluene-d8	25	99	93	81	86	88	86	79-121
Bromofluoro-benzene	25	86	90	98	95	93	90	71-131

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL). * Result from a higher dilution analysis.

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Southland Technical Services, Inc.
Environmental Laboratories

Client: URS Corporation
Project: 29863493/Sears Oakland 1039

Lab Job No.: UR209047
Matrix: Water

Date Reported: 09-20-2002
Date Sampled: 09-06-2002

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

Date ANALYZED		09-14-02	09-14-02	09-14-02	09-14-02	09-14-02	09-14-02	09-14-02
PREPARATION METHOD		5030	5030	5030	5030	5030	5030	5030
DILUTION FACTOR		1	50	1	1	50	1	1
LAB SAMPLE I.D.			UR209047-6	UR209047-7	UR209047-8	UR209047-9	UR209047-10	UR209047-11
CLIENT SAMPLE I.D.			MW-7	MW-8	MW-9	DUP-1	EB-1	TB
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	24.2	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	11,500	ND	ND	11,300	ND	ND
Trichloroethene	2.5	ND	ND	ND	10.6	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	ND	4.5	28.1	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.: UR209047
Matrix: Water

Date Reported: 09-20-2002
Date Sampled: 09-06-2002

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	TB
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	515	ND	ND	510	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	82	94	98	98	97	98	98
Toluene-d8	25	99	116	80	87	87	89	89
Bromofluoro-benzene	25	86	92	89	92	94	90	90

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL). * Result from a higher dilution analysis.

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Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	URS Corporation	Lab Job No.:	UR209047
Project:	29863493/Sears Oakland 1039		
Matrix:	Water	Lab Sample ID:	UR209047-2
Batch No.:	EI11-DW1	Date Analyzed:	09-11-2002

I. MS/MSD Report
Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	20	19.5	19.6	97.5	98.0	0.5	30	70-130

II. LCS Result
Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-d	22.5	20	112.5	80-120

ND: Not Detected (at the specified limit).

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Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	URS Corporation	Lab Job No.:	UR209047
Project:	29863493/Sears Oakland 1039		
Matrix:	Water	Lab Sample ID:	UR209047-5
Batch No.:	AI12-GW1	Date Analyzed:	09-12-2002

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	1,020	908	102.0	90.8	11.6	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	950	1000	95.0	80-120

ND: Not Detected (at the specified limit).

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Southland Technical Services, Inc.
Environmental Laboratories

09-20-2002

EPA 8260B
Batch QA/QC Report

Client: URS Corporation
Project: 29863493/Sears Oakland 1039
Matrix: Water
Batch No: 0913-VOAW2

Lab Job No.: UR209047
Sample ID: UR209047-4
Date Analyzed: 09-14-2002

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	19.2	15.0	96.0	75.0	24.6	30	70-130
Benzene	ND	20	20.4	17.0	102.0	85.0	18.2	30	70-130
Trichloro-ethene	ND	20	16.0	14.2	80.0	71.0	11.9	30	70-130
Toluene	ND	20	16.8	14.3	84.0	71.5	16.1	30	70-130
Chlorobenzene	ND	20	19.5	16.5	97.5	82.5	16.7	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	21.0	20.0	105.0	80-120
Benzene	22.1	20.0	110.5	80-120
Trichloro-ethene	17.5	20.0	87.5	80-120
Toluene	17.8	20.0	89.0	80-120
Chlorobenzene	20.2	20.0	101.0	80-120

ND: Not Detected.

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SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number UR209047

Client: URS CORPORATION

Address: 2020 E. 1ST STREET SANTA ANA CA 92705

Report Attention	Phone	Fax	Sampled by
SCOTT ROWLANDS	(714) 835 6886	(714) 667 7147	Robert Kovacs

Project Name/No. 24863493 SEARS/OAKLAND 1039

Project Site: OAKLAND 1901 TELEGRAPH AVE

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No., type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	TPHg (8015M)	VoC (8260B)	TPHd TPHo (8015M)				Remarks
MW-1	UR209047-1	9-6	815	W	HCl	3 V ~~VOA~~							X	X					
MW-1		9-6	815	W	NONE	1 G									X				
MW-3	-3	9-6	910	W	HCl	3 V							X	X					
MW-3		9-6	910	W	NONE	1 G									X				
MW-4	-4	9-6	1005	W	HCl	3 V							X	X					
MW-4		9-6	1005	W	NONE	1 G									X				
MW-5	-5	9-6	1110	W	HCl	3 V							X	X					
MW-5		9-6	1110	W	NONE	1 G									X				
MW-8	-7	9-6	1200	W	HCl	3 V							X	X					
MW-8		9-6	1200	W	NONE	1 G									X				
MW-9	-8	9-6	1245	W	HCl	3 V							X	X					
MW-9		9-6	1245	W	NONE	1 G									X				
MW-2	-2	9-6	1355	W	HCl	3 V							X	X					
MW-2		9-6	1355	W	NONE	1 G									X				
MW-7	-6	9-6	1450	W	HCl	3 V							X	X					
MW-7		9-6	1450	W	NONE	1 G									X				

Relinquished by	Company	Date	Time	Received by	Company
Robert Kovacs	URS	9-6	1600	Young	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: A=Air Bag G=Glass bottle M=Metal Tube P=Plastic bottle V=VOA vial

Southland Tech. Services, Inc.
7801 Telegraph Road, Suite L & K
Montebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense. Distribution: WHITE with report, PINK to courier.

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number UR209047

Client: URS CORPORATION

Address: 2020 E 1ST STREET SANTA ANA CA 92705

Report Attention: SCOTT ROWLAND | Phone: (714) 835-6886 | Fax: (714) 667-7147 | Sampled by: Robert Kovacs

Project Name/No.: JEARS OAKLAND 1039 29863193 | Project Site: 1901 TELEGRAPH AVE, OAKLAND

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates. BTEX)	8260B (MTBE Confirm.)	TPHg (8015M)	VOC (8260B)	TPHd TPHo (8015M)			
DUP-1	UR209049-9	9-6	1500	W	HCl	3V							X	X				
DUP-1			1500		NONE	1G									X			
EB-1	-10		1520		HCl	3V							X	X				
TB	-11		N/A		HCl	2V							X	X				

Analyses Requested

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Remarks:

Relinquished by	Company	Date	Time	Received by	Company
Robert Kovacs	URS	9-6	1600	Jonny	SAS
Relinquished by	Company	Date	Time	Received by	Company

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

Southland Tech. Services, Inc.
7801 Telegraph Road, Suite L & K
Montebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

APPENDIX D

URS DATA VALIDATION REPORTS

Level III Data Validation Summary

PROJECT: Sears Oakland 1039
LABORATORY: Southland Technical Services, Inc. (STS)
MATRIX: Water
LAB PROJECT #: UR209047
SAMPLES: See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TPH-Diesel, TPH-Oil	VOCs (including Fuel Oxygenates)
MW-1		UR209047-1	X	X	X
MW-3		UR209047-3	X	X	X
MW-4		UR209047-4	X	X	X
MW-5		UR209047-5	X	X	X
MW-8		UR209047-7	X	X	X
MW-9		UR209047-8	X	X	X
MW-2		UR209047-2	X	X	X
MW-7		UR209047-6	X	X	X
Dup-1	Field duplicate of MW-7	UR209047-9	X	X	X
EB-1	Equipment blank	UR209047-10	X		X
TB	Trip Blank	UR209047-11	X		X

Date Sampled: 9/6/02
TPH-Gasoline= Total petroleum hydrocarbons – gasoline range (C4-C12), TPH-Diesel= Total petroleum hydrocarbons – diesel range (C13-C23)
TPH-Oil= Total petroleum hydrocarbons – oil range (C24-C40) VOCs = Volatile organic compounds
Fuel Oxygenates = t-butyl alcohol (TBA), t-amyl methyl ether (TAME), di - isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), methyl t-butyl ether (MTBE).
STS is certified by California Department of Health Services (Certificate Number 1986).

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline EPA5030/8015M	TPH-Diesel, and TPH-Oil EPA3510C/8015M	VOCs EPA5030/8260B
Chain-of-custody (COC)	✓	✓	✓
Sample Receipt	✓	✓	✓
Holding Times	✓	✓	✓
Method Blank	✓	✓	✓
Surrogate Recovery	✓	✓	✓
Laboratory Control Sample	✓	✓	✓
Matrix Spike	✓(1)	✓(2)	✓(3)
Duplicate or Spike Duplicate	✓(1)	✓(2)	✓(3)
Field Duplicate	✓	✓	✓
Equipment Blank	✓	NA	✓
Trip Blank	✓	NA	✓

✓ = Quality control evaluation criteria met.
NA = Not Applicable or Not Analyzed

Notes:
1. MS/MSD was conducted on sample MW-5. The results were within acceptance criterion.
2. MS/MSD was conducted on sample MW-2. The results were within acceptance criterion.
3. MS/MSD was conducted on sample MW-4. The results were within acceptance criterion.

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. However, the data user must evaluate the ultimate usability of the data based on the reporting limits obtained. The table below lists the detection limits obtained for undiluted samples.

Analyte	Detection Limits Obtained
TPH-Diesel	500
TPH-Oil	2000
TPH-Gasoline	50
VOCs	1 to 25
MTBE	2
TBA	10
Other Oxygenates	2

Aqueous units are microgram per Liter (μg /L).

Samples MW-7, and Dup-1 required dilution for the 8260B analysis due to the high concentration of non-target and target analytes (Gasoline, and Benzene). For these samples, the results from the 8260B analysis with the exception of Benzene were all non-detect with elevated reporting limits. The data user must evaluate the utility of the non-detect VOC results with elevated reporting limits.