

Alementa County

SEP 0 > 2003

Environmental Health

2003 SECOND 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 September 3, 2003 September 3, 2003

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

Subject: 2003 Second 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 second quarter 2003. Quarterly groundwater monitoring will continue within the current scope of work during third 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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1.0 Introduction

This report has been prepared by URS Corporation on behalf of Sears, Roebuck & Co., (Sears). It presents results of the 2003 Second 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 monitoring wells (MW-1 through MW-8). Nine groundwater-monitoring wells were scheduled for sampling during this event; however, well MW-9 was not accessible and therefore was not sampled. 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. 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, 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 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-range organics (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 Second Quarter Groundwater Monitoring was performed on June 4, 2003. The monitoring consisted of groundwater gauging of all nine wells, and purging and sampling of eight wells (MW-1 through MW-8). Well MW-9 was not accessible for sampling and therefore was not sampled during this event. 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 SolinstTM 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 second 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 YSITM multi-parameter meter equipped with a flow through cell. However this quarter, due to a malfunction with the ORP probe, results for ORP are not included in Table 2 or Appendix B. Purging continued until temperature, pH, and conductivity had stabilized. The stabilized field parameters are listed in Table 1.

Groundwater samples were collected from eight monitoring wells for laboratory analysis during the 2003 Second 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, total petroleum hydrocarbons as diesel fuel-range organics (TPHd), and total petroleum hydrocarbons as 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 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 12.69 feet to 16.8 feet bgs or approximately 3.52 feet to 6.31 feet above mean sea level (msl) during the 2003 Second Quarter Groundwater Monitoring event. Groundwater elevation has increased an average of 0.27 feet since the 2003 First quarter. Groundwater depths and elevations are listed in Table 1 and Appendix B. An interpretive groundwater elevation contour map, based on the 2003 second quarter groundwater level measurements, is provided as Figure 3. Groundwater elevation contours for the Site were generated by a geostatistical gridding method using SURFERTM, a graphical, contouring software program. The resultant groundwater contours indicate an easterly groundwater flow direction with a gradient of about 0.012 (Figure 3).

6.2 LABORATORY ANALYTICAL RESULTS

TPHg was detected in groundwater samples collected from wells MW-2, MW-5, and MW-7 with concentrations of 930 micrograms per liter (µg/L), 57 µg/L, and 18,100 µg/L, respectively. TPHd and TPHo were non-detect (ND) for all the groundwater monitoring wells sampled this quarter. Benzene was detected in samples collected from monitoring wells MW-2, MW-4, MW-7, and MW-8 with concentrations ranging from 1.2 µg/L to 12,000 µg/L. 1,2,4-trimethylbenzene was detected in samples collected from monitoring well MW-7 at a concentration of 223 µg/L.

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, and MW-3. PCE was detected in wells MW-1 and MW-3 with concentrations of 37.1 µg/L, and 40.8 µg/L, respectively. TCE was detected in wells MW-1, MW-2, and MW-3 with concentrations of 3.5 μg/L, 3.5 μg/L, and 11.5 μg/L, respectively. 1,2-DCA was detected in well MW-2 at a concentration of $7.0 \,\mu\text{g/L}$.

Chemical analysis results of the 2003 Second 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 second 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' Data Validation Reports is included in Appendix D.

7.0 DISCUSSION

The 2003 Second Quarter Groundwater Monitoring event represents the 31st groundwater-sampling event conducted at the Site. Groundwater elevations have increased approximately 0.27 feet since the last sampling event conducted in March 2003. Groundwater flow direction is towards the east with a gradient of 0.012, which is consistent with previous monitoring events. TPHg was detected in three of eight monitoring wells sampled with concentrations up to 18,100 µg/L. Benzene was detected in four of eight monitoring wells sampled with concentrations up to 12,000 µg/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-7 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 a diameter of approximately 250 feet.

8.0 SCHEDULE

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

- Quarterly groundwater monitoring of wells MW-1 through MW-9: September 2003,
- Submittal of 2003 third quarter groundwater monitoring report to ACEHS: October 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

Joseph Liles

Senior Staff Geologist

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

Senior Project Geologist

9.0 REFERENCES

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- Muir, Kenneth S., 1993. Geologic Framework of the East Bay Plain Groundwater Basin, Alameda, California. Prepared for the Alameda County Flood Control and Water Conservation District, August 1993.
- California Regional Water Quality Control Board-San Francisco Bay Region Groundwater Committee (RWQCB), 1999. East Bay Plain Groundwater Basin Beneficial Use Evaluation Report. June 1999, 106 p.
- Environmental Science & Engineering, Inc., 1995. Preliminary Site Investigation and Phase II Environmental Assessment, Goodyear Tire Facility 1901-1911 Telegraph Avenue, Oakland, California 92612, December 27.
- The IT Group, 2000. Soil and Groundwater Assessment Report, Sears Auto Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, February 9.
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- URS Corporation, 2002. 2002 First Quarter Groundwater Monitoring, Former Sears Retail Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, August 5.
- URS Corporation, 2002. 2002 Second Quarter Groundwater Monitoring, Former Sears Retail Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, September 30.
- URS Corporation, 2002. 2002 Third Quarter Groundwater Monitoring, Former Sears Retail Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, December 12.
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- URS Corporation, 2003. 2003 First Quarter Groundwater Monitoring, Former Sears Retail Center #1039, 1901-1911 Telegraph Avenue, Oakland, California, April 28.

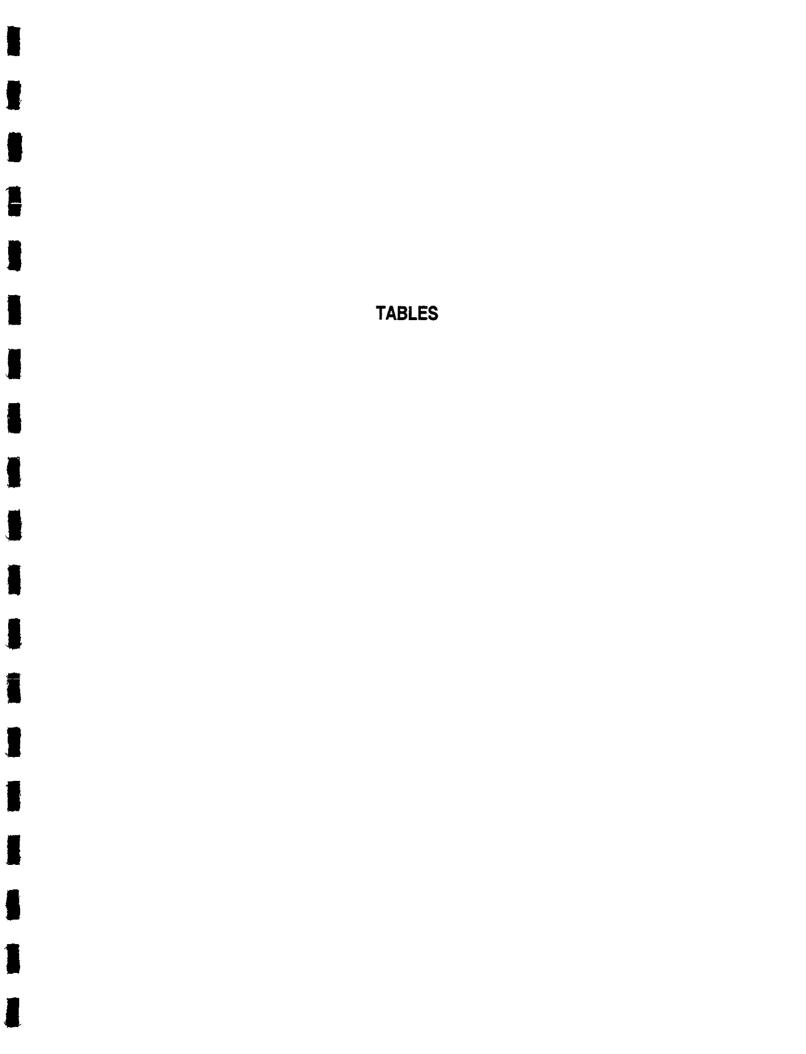


Table 1
2003 2nd Quarter Groundwater Levels and Parameters
Sears Retail Center Store No. 1039
Oakland, California

				GROUNDW	ATER LE	VELS	GROU	INDWATE	R SAMPLIN	G FIELD I	PARAMETE	ERS
Monitoring Well No.	Date Collected	Notes	Product Thickness (ft)	Depth to Groundwater (feet bgs)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temp. (Celsius)	pН	Cond (µS/cm)	O.R.P.	Turbidity (NTU)	Dissolved Oxygen (mg/L)
MW-1	6/4/2003		NA	14.68	20.99	6.31	19.41	6.47	992	NA	19.4	3.94
MW-2	6/4/2003		NA	14.43	20.50	6.07	21.17	6.55	1794	NA	1.1	0.57
MW-3	6/4/2003		NA	16.54	22.29	5.75	20.85	6.31	681	NA	2.2	1.72
MW-4	6/4/2003		NA	13.03	18.61	5.58	21.47	6.68	1667	NA	0.7	0.79
MW-5	6/4/2003		NA	12.69	18.76	6.07	21.27	6.81	1886	NA	271.4	1.46
MW-6	6/4/2003		NA	14.27	18.91	4.64	20.83	6.56	1950	NA	12.3	1.90
MW-7	6/4/2003		NA	15.73	20.39	4.66	20.70	6.57	1308	NA	30.9	4.21
MW-8	6/4/2003		NA	16.80	21.12	4.32	20.71	6.65	614	NA	50.0	5.82
MW-9	6/4/2003	4	NA	15.68	19.20	3.52	NA	NA	NA	NA	NA NA	NA

Notes:

MSL - Mean Sea Level

BGS - Below ground surface

Groundwater Elevation reference to MSL

Groundwater Elevation = Top of casing elevation - Depth to Water

I Sheen observed on water surface2 Petroleum odor in groundwater

3 Well casing damaged

Well casing damaged
 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 2003 2nd Quarter Groundwater Analytical Results Sears Retail Center Store No. 1039 Oakland, California

			·	_	···		٠			LA	BOF	RATORY	AN	ALYTIC	AL I	RESULTS	<u> </u>																	
Monitoring			by	EPA	8015	M											···•		Vola	tile Organ	nie C	ompounds	by G	C/MS EP	A 820	60B			_				,	·
Well	Sample		TPHg	1	TPH	d	1	ГРНо		В		T		E		\mathbf{X}		MTBE		ETBE		DIPE	'	TAME		TBA		PCE		TCE	1,	2-DCA	1,	,2,4-TMB
No.	Date	Notes	(μ g/L)		(μ g/I)	(μg/L)	(μg/L)		μg/L)	<u> </u>	(µg/L)	丄	(μg/L)	1_	(μg/L)		(μ g/L)	1_	(μg/L)	<u> </u>	(μ g/ L)		(μg/L)		(μg/L)		(μg/L)		(μg/L)	<u> </u>	(µg/L)
MW-1	6/4/2003		< 50	_ <	< 50	00	<	2000	<_	1	<	1	<_	1	<	2	<u> </u> <	2 .	<u> </u>	2	<	2	<_	_2	<	10		37.1	<u> </u>	3.5	<	5	<_	5
MW-2	6/4/2003		930		< 50	0	<	2000		399	<	1	<	11	<	2	<u> <</u>	2	<u> </u>	2	<	2	<_	22	<	10	<	2.5	<u> </u>	3.5		7	<	5
	6/4/2003	1	850		< _ 50	00	<	2000		382	<	11	<	1	<	2	<	2	<	2	<	2	<	2	<_	10	<	2.5	<u> </u>	3.5		9	<	5
MW-3	6/4/2003		< 50		< 50	00	٧	2000	<	1	<	_1	<	1	_<	2	<	2	<	2	<	2	<	2	<	10		40.8		11.5	<	5	<	5
MW-4	6/4/2003		< 50		< 50	00	<	2000		4.4	<	1	<	1	<	2	<	2	<	2	<	2	<	2	<	10	<	2.5	<	2.5	<	5_	<	5
, MW-5	6/4/2003		57	_ <	< 50	0	<	2000	V	1	<	1	<	1	<	2	<	2_	<	2	<	2	<	2	<	10	<	2.5	<	2.5	<	5	<	5
MW-6	6/4/2003		< 50	_ [<	< 50	ю Т	<	2000	<	1	<	1	<	11	<	2	<	2	<	2	<	2	<	2	<	10	<	2.5	<	2.5	<	5	<	5
MW-7	6/4/2003		18,10	0 <	< 50	00	<	2000		12,000	<_	1		444		683	<	2	<	2	<	2	<	2	<	10	<	2.5	<	2.5	<	5_		223
MW-8	6/4/2003	-	< 50		< 50	00	<	2000		1.2	<	1	<	1	<	2	<	2	<	2	<	2	<	2	<	10	<	2.5	<	2.5	<	5	<	5
MW-9	6/4/2003	_ - _	< NA		< N	Α	<	NA	<	NA	<	NA	<	NA	<	NA	<	NA	<	NA	<	NA	<	, NA	<	NA		NA		NA		NA	<	NA

Notes:

- 1: Duplicate sample
- 2: Petroleum odor in groundwater
- 3: Well casing is damaged
- 4: Well not sampled
- < 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 Hydrocarbons as diesel range hydrocarbons by EPA Method 8015 (modified)

TRPo = Total Petroleum Hydrocarbons as oil range hydrocarbons by EPA Method 8015 (modified)

MEBE - Methyl tertiary-butyl ether

DIPE - Di-isopropyl Ether

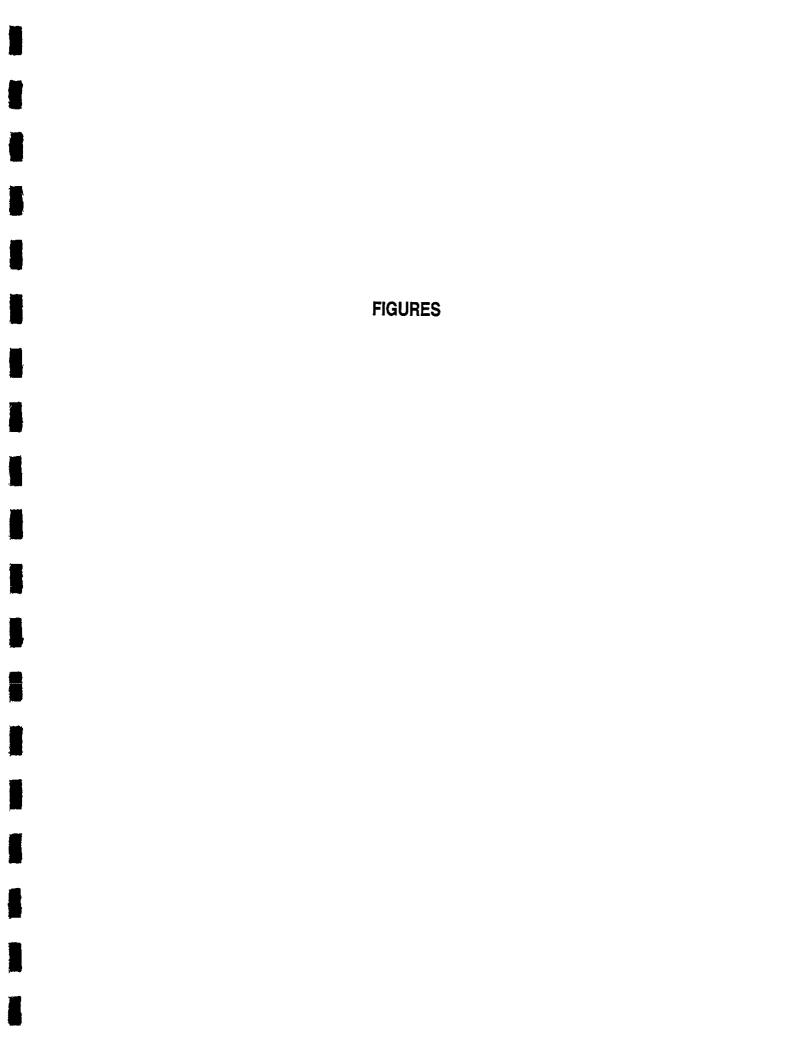
TAME - Tertiary Amyl Methyl Ether TBA - Tertiary Butyl Alcohol ETBE - Ethyl Tertiary Butyl Ether

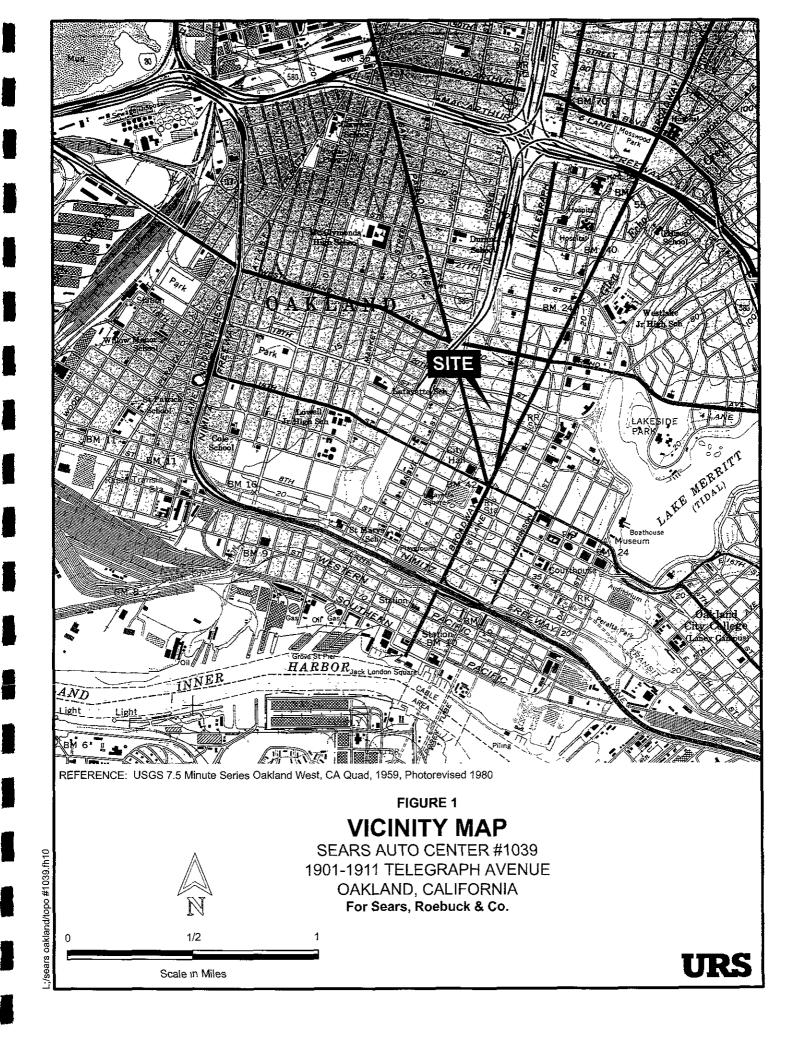
PCE - Tetrachloroethane

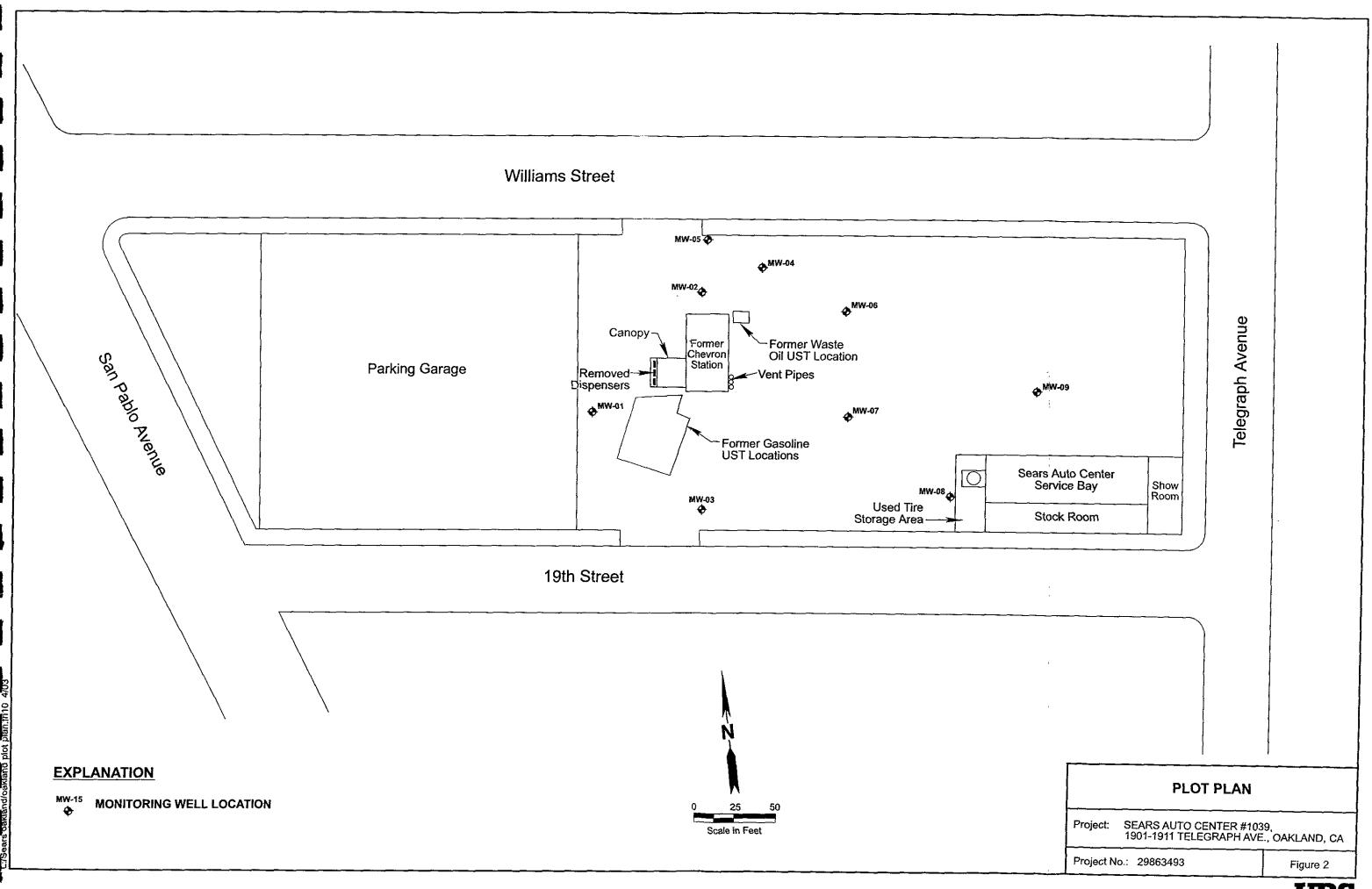
TCE - Trichloroethene

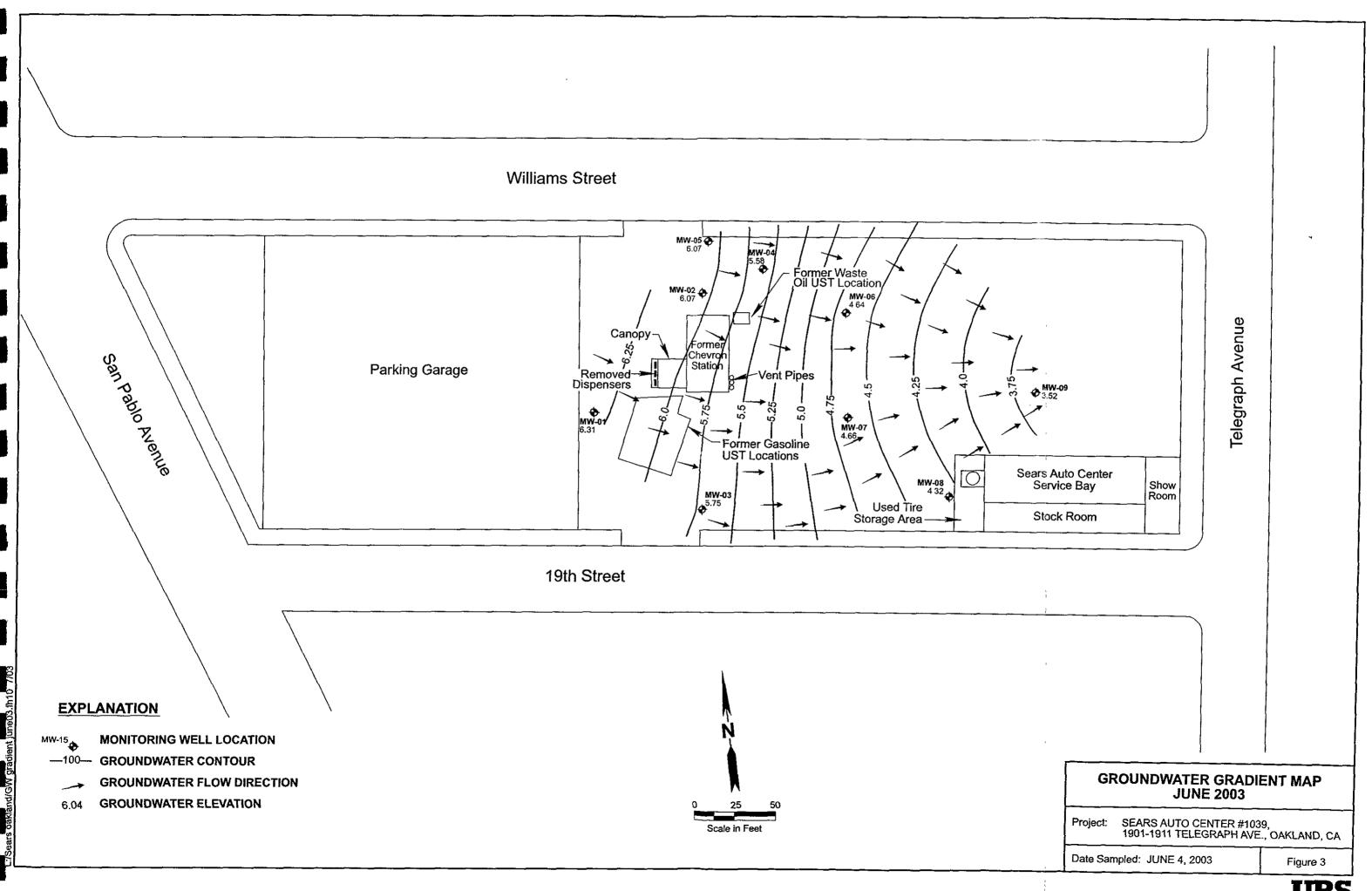
i,2-DCA - 1,2-Dichloroethane 1,1-DCE - 1,1 Dichloroethene

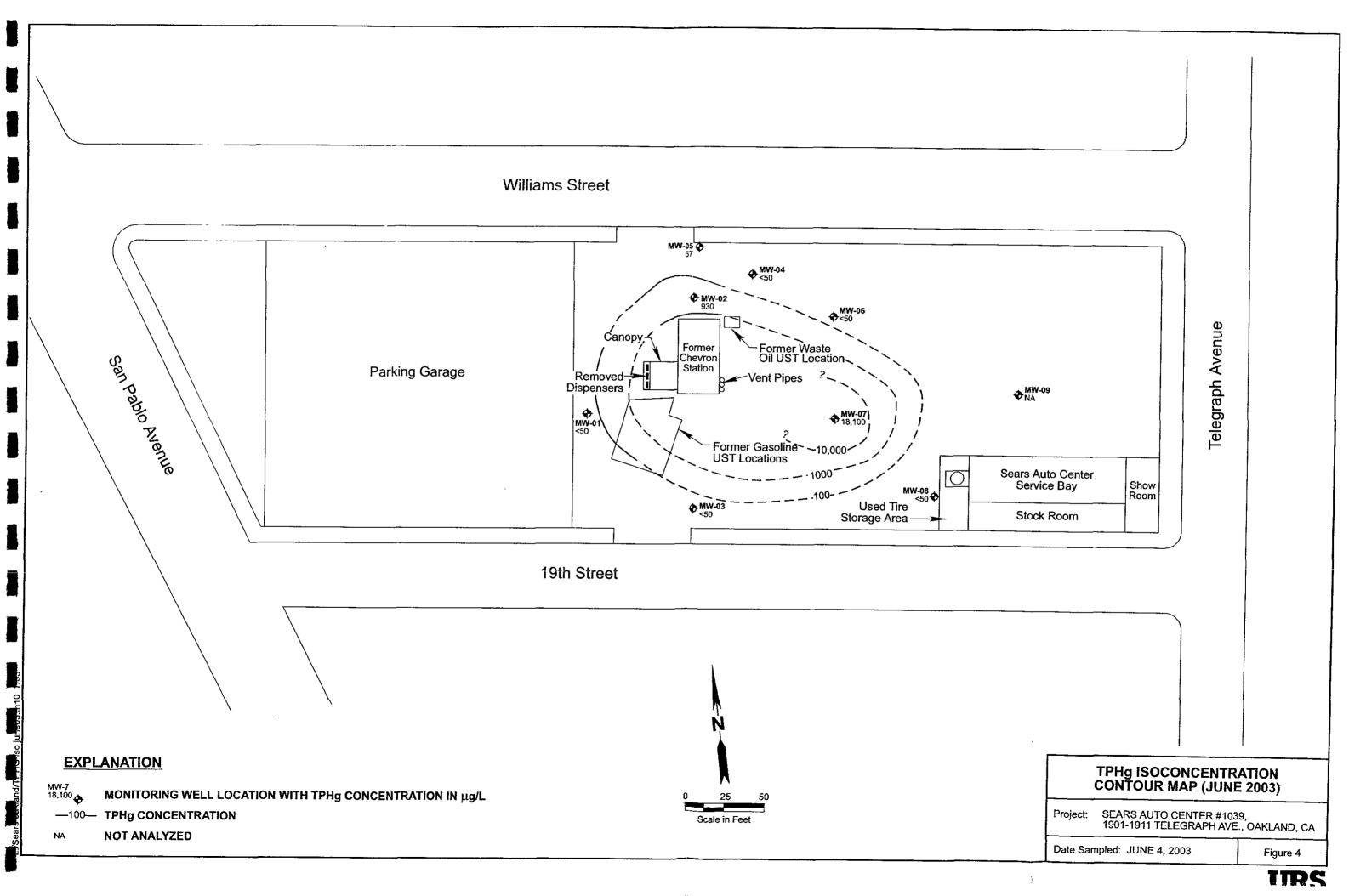
1,2,4-TBM - 1,2,4-Trimethylbenzene

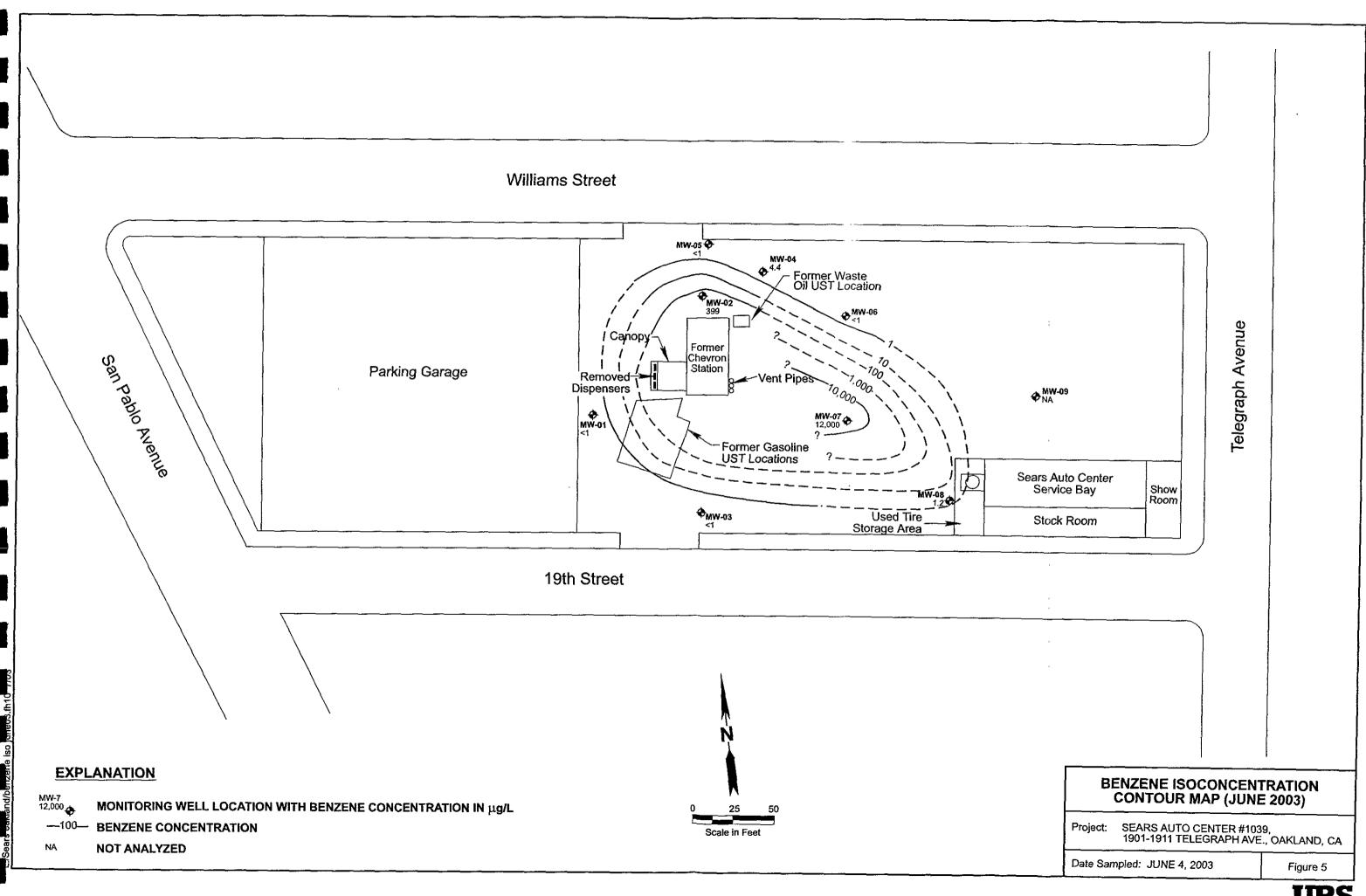












APPENDIX A SWRCB GEOTRACKER SITE DATA

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)





Note: You may select up to 6 chemicals.

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

NAME DATE PARAMETER MATRIX QUALIFIER NO DATA HAS BEEN SUBMITTED TO THE SWRCB FOR THIS MONITORING WELL.

RESULT UNITS

PLOT

DENOTES A HISTORICAL VALUE

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 T0600100308 LATITUDE 37.80913

LONGITUDE -122.269338

GEOGRAPHIC DATA DETAILS:

DATUM

North American Datum 1983

SURVEY METHOD Geocoded

PROJECTION

ESTIMATED ACCURACY Geographic Projection

376.24 feet

SOURCE OF DATA

ETAK Geocoding Class 1 Block Match - Street Segment Exact Address Match

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

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)

ř	,			, 	,	CROININI.		, ,						a			·											
				İ		GROUNDWAT Stand Prod		Groundwater			1	LABORA	ATORY ANALYTI	CAL RESULT	<u> </u>		1	T	<u> </u>		-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		T			
Well	Sample		Sample	Sample	Depth to Groundwater	Stand Prod Thickness	Casing Elevation	Elevation	Anal.	TPHg	TPHd	ТРНо	Benzene	Tolmene	Ethylbenz	me Xylenes	мтве	ЕТВЕ	DIPE	TAME	ТВА	PCE	TCE	1,2-DCA	cis-1,2 DCE	11.000	1,24-TBM	Nambar
) No.	No.	Notes	Date	Period	(ft bgs)	(n)	(n MSL)	(ft MSL)	Units	11146	1 1110	IFILO	Deuzene	LOISEDE	Cminens	Ayenes	MIBE	LIBE	DIFE	IAME	IBA	ris	ICE	1,2,00	CIS-1,2DCE	1,1-DCE	1,4-18M	Naphthanene
MW-I	MW-1	5	10/1/95	Oct-95			9434		ue/L	< 50			ND	ND	ND.	ND		 				9.9	ND	ND				
MW-1	MW-I	5	1/1/96	Jan-96	-	_	9434	_	μ _W /L	< 50	_	-	ND	ND				_				9.9		ND				
MW-1	MW-1	5	6/12/96	Jun-96	16.21	0.00	9434	78.13	μ g/L	< 50	_	_	< 0.5	1.4			_			_	_	12	c 0.5	< 0.5			_	
MW-1	MW-I	5	9/5/96	Sep-96	16.89	0.00	9434	77.45	μ g/L	< 50	-	-	< 0.5	< 0.5	< 0.5	< 2	< 5.0	-	_	_	_	12	< 0.5	< 0.5			_	
MW-1	MW-1	5	12/3/96	Dec-96	17,07	0.00	9434	77.27	μ g/ L	< 50_	_	_	< 0.5	< 0.5	< 0.5	< 2	< 5.0		-	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	
MW-I	MW-I	5	2/27/97	Feb-97	15.55	0.00	94.34	78.79	μ ε/L	< 50		-	< 0.5	< 0.5	< 0,5	< 2	< 5.0					3,	1.3	< 0.5	< 0.5	< 0.5		
MW-1	MW-1	5	6/10/97	Јшп-97	16.46	0.00	94.34	77.88	μ ε/ L	< 50_			<0.5	< 0.5	< 0.5	<u> </u>	< 5.0					19	< 0.5	< 0.5	< 0.5	< 0.5	-	
MW-1	MW-1	5	\$/27/97	Aug-97	16,97	0.00	9434	77.37	ug/L	< 50			< 0.5	< 0.5	< 0.5	<u> </u>	< 5.0					16	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1	MW-1		11/26/97	Nov-97	17.24	0.00	94.34	77.10	μ ε /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	2/11/98	Feb-98	16.07	0.00	94.34	78.27	µg/L	< 50	-	-	< 0.5	< 0.5		< 3	< 5.0		-			20	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1	MW-1	5	5/19/98	May-98	15.43	0.00	94.34	78.91	us/L	< 50	-		< 0.5	< 0.5		<u> </u>	< 50	 			<u> </u>	14	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1	MW-1		8/10/98	Aug-98	15.98	0.00	94.34	78_36	μφ/L	< 50	-	-	< 0.5	< 0.5		- 	< 2.5	 = -				14	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1	MW-1	5	11/9/98	Nov-98	16.63	0.00	94.34	77.71	μ ε/L	< 50	 	-	< 0.5	< 0.5			3.1	+	 			16	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1 MW-1	MW-1	- 5	2/8/99	Feb-99	J6.55		94.34	77.2	μ g/L	< 50	-		< 0.5	< 0.5	< 0.5	< 5	_ < 2.5		-			< 0.5	20	< 0.5	< 0.5	< 0.5	<u>-</u>	
MW-1	MW-1		2/11/99 5/10/99	Feb-99 May-99	15.50	0.00	94.34	77.79 78.84	μ ε/ L	< 50			< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	 	 	- -	 					-		
MW-1	MW-1	5	8/9/99	Aug-99	15.82	0.00	94.34	78.52	118/T.	< 50			< 05	< 0.5			< 25		<u> </u>			14	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5		
MW-1	MW-1	5	11/5/99	Nov-99	16.29	0.00	94.34	78.05	ug/L	< 50			< 0.5	< 0.5			< 25	 				70	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	-	
_MW-1	MW-1	5	2/1/00	Feb-00	16.02	0.00	9434	78.32	μg/L	< 50			< 0.5	< 0.5			< 0.5	T _				24	< 0.5	< 0.5	< 0.5	< 0.5		
MW-t	MW-1	5	5/2/99	May-00	14.48	0,00	94.34	79.86	μg/L	< 50			< 0.5	< 0.5	< 0.5		< 0.5	<u> </u>				23	< 0.5	< 0.5	< 0.5	< 0.5		
MW-1	MW-1	5	8/1/00	Aug-00	15.20	0.00	94.34	79.14	րց/Ն	< 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	11/6/00	Nov-00	1563	0.00	94.34	78 71	μg/L	< 50	-		< 0.5	< 0.5	< 0.5	< 0.5	< 9.5			1	· _	31	< 0.5	< 0.5	< 0.5	< 0.5	_	
MW-1	MW-1	3	2/16/01	Feb-01	15.45	0.00	94.34	78.89	д g/L	< 50_	- '		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<u> </u>		-		32	0.7	< 0.5	< 9.5	< 0.5		
MW-t	MW-1	. 5	4/27/01	Apr-01	14.86	0.00	94.34	79.48	µg/L	< 50	-	<u>.</u>	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					33	< 0.5	< 0.5	< 6.5	< 0.5		
MW-1	MW-1	5	7/24/01	Jul-Of		0.00	94.34		μ g/L		-			<u>-</u>		<u>-</u> _		<u> </u>	-				-		-			
MW-1	MW-1	2	3/28/02	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	 		-	<u> </u>	33	< 0.5	< 0.5	< 0.5	< 0.5	-	
_MW-1	MW-1	. 2	6/5/02	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-t	MW-1	2	9/6/02	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-1	MW-1	2	12/12/02	Dec-03	15.67	0 00	20.99	5.32	μg/L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	35.1	2.7	< _5.0	< 5.0	< 50		
MW-1	MW-I	2	3/13/03	Mar-03	14.95	0.00	20.99	6.04	μ ε/ Ι.	76			< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 10.0	45.4	50	< 5.0	< 5.0	< 5.0	< 5.0	< <i>5</i> .0
MW-i	MW-1	- 2	6/4/03 10/1/93	Jun-03 Oct-95	14.68	0.06	20.99 93.95	631	μg/L	< 50 2,900	< 500	< 2000	1,200	< 1.0	<u> </u>	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	37.1	3.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-2	MW-2		1/1/96	Go. M.			93.95	Section - A	Part 7	790			1:100	71.0	-6 - ~-					-	-	ND ND	360, 232 40	289			ARTICIPANT YOUR	
MW-2	MW-2		6/12/96	Tun-44K-F		0.00	93.95	7734	anist .	3,600			Sa Grand Seen	7.8	y - 1 gr (Gar)	10							40	2.00		-Tomber Artis	*********	15.55.7%
MW-2	MW-2	553 a	9/5/96	Sán Đắ	1666	0.00	9195	77.29	ue/L	2,100	80 85 b	- 5a-2	350	F. 342.6	constitution of a six	- 3 B 16	4 5 1 66 6		e - 24		3866		40°		F State of the		in Fuels (\$47)	100.97
М₩-2	MW-2	5 6	12/3/96	Dec 96	16.20	0.00	93.95	77.75	uwL.	1,300	PERMIT	1. 1 4 7.	230	3 7 24			40	1 2 2 2	學學多類		- 医性症	Alleria de Sala	200		A CONTRACTOR	7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VIII TOUR	
MW2	MW.2		าการก	Feb-97	14.46	0.00	93.95	79.49	μу	1,000		್ಷ ಕ್ರೀಡ್ರೆಯನ್	210	22	写 & A.容	· 基本	12	1.78324	7 T 12 A	ができた (10g) (10g) (10g)	5.50	金工工家		43				
MW2	MW-2	/s -	6 1097	Jun 97	14.00	6.00	91.95	79.95	µ.L.	1.			510	3.0		10	₹ 30			7.2			19	47	49	4		
-MW-2	MW-2	3.	1 0797	Aug-97	1633	0.08 ™>	-93.98	77.40	μ α /I	450			- 51	< 0.5	T PAGE		ii					0.1	16 -	29 🗇		~ 0.5	15.	The State of
T/W-3	MW-2	5	11/2657	Nov-97	1636	0.00	93.98	77,09	pyl	1,200			380	5.0	•	<u> </u>	≥ 30 °	4			4-6-E-V	100	34 DE	29 🛎	Z-1 31 - 2	<		94.00 CL 3
2 MW-2	MW-2	3.	ะ วักเรง	: Feb-96 ⊕	15.85	- e.es	93.95 🔄	- 78.10 · ·	∴ju⊮£	1,100	es deta 4 dese	312.4.A.					2 - 12 2 2 2				1. 18 T		7 4 162	A		7.35 F. F. 66 3		经营销基 2014
					15.32			78.63	pg/L	1,290				21			- 20					1975 SM		77.	1475			
MW-2	MW-2	8 ° 1 °	\$/109\$	Aug-94					pgt	300		10 miles 15 (2003) 5 520miles	31	10	12		40					e 195	Web INVOVY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24	< 0.5 €		
MW-2	MW-2	86 (3	11/9/98	Nov-98	1633	0.80	93.95	77.0	mig/L	448		* * * * * * * * * * * * * * * * * * *	57 240				25			Characteristics		9.5	12	25	23	c 0.5.		
MWO	MW-Z-	8	28/99 2/11/99	Fab.99		8.00			ppL	480				23								6.5	<u>. 11</u>	36	ů.	₹ 05		
			\$/(0/99	May-99	15.15		9195		pyl.	260	7 45 7 2		220	223						Jun 12 412570000 11 11 11		c 0.5	√+, * <u>*</u> ****					
MW-2	March	CALL ST	2000	Aug-99	16.09		93.95	77.26	Light Link	-768 - 248 (250 /2)			- 226					A STATE OF A				c. 05	212	24 33	್ರಾಸ್ ್ಷ್ 3.4 ್ಯ - ರ್ಷ್ಮ್ ∴2.6	< 0.5		
MW-2			11/5/99	Nov-99	1620		93.95		m/L	320	7 () () () () () () () () () (3 (2)	2 C 63 3 4				11/210					₹0 <u>\$</u>	11.	33 75	13	< 0.5 ⋅ 0.5		<u> </u>
MW-2			2/1/00	Feb-99 -	16.00		91.95	77.95	149/2	1200	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		619/590*	4.4/6.		2	- 10220:		7.50	T Z	5-1-31 <u>2</u> 2	< 95°	13 4	. 49 (Trins !!)	1.3	< 0.5 < 0.5		**************************************
MW2				May-80	1490	2 200	- 2010s -	2905		936		174.3	\$40/600	3.7/-8.	- 20 (4.7)		() () () () () () () () () ()				10 -7 10 (A)	0,5	8.4	32	57 × 45	< 9.5 < 6.5	- 	-3. *
MW-2				Ang-90	15.25	8.00	93.95	72.70	iu L	410	11 20		110					- 342 - 3		" 经净货			9.4	23	29	< 0.5		5 7
MW-2	MW-2		11A000	Nov-00	1545	0.00	93.95	78.50	μgL	450	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	150/130+	.09/.09		J- M.C				2300 F 1 = 2	3.2	6.5	10 -	20	1.5	< 0.5	3	
- MW-2 🚊	MW-1	21.3 - N	2/16/01	Feb-01	15.50	6.00	93.95	78.4S	μg/L	640	¥ .		360/390*				. s. 05.), <u>3</u> ,54 <u>-</u> ,	< 0.5			2.5	< 65		
MW-2				Apr-01	1483	0.60	3.95			770			450/510	3,3/3.			₹ 0.5	-	**************************************	10 / Z		< 63	44	41	4.0	< 0.5		
MW-2	MW-2	5	7/24/01	Jul-01	15.18	0.00	93.95	78.77	μ ο /L	490			130/129	1.7/1.	8.8/8	1 6.5/5.8	< 0.5		(n. 27 €	항 항	T/_T_	< 0.5	7.2	15	3.0	< 0.5		
. MW-2	MW-2	. 2	3727/92	Mar-02	1441	9.00	93.9S - T	79.54	ug/L	~	< 50 ·	< 500	610	< 0.50	- 19	A - 14	₹ 5.0		73		() () () ()	< 0.50	5.1	19	< 0.50	< 0.50		

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

-					,								monat - 2147 7.00	Out Brown														
<u> </u>) !	1			Depth to	GROUNDWA' Stand Prod	Casing	Groundwater	 	T 7		LABORA	TORY ANALYT	CAL RESULTS	T	T			Τ									
Well	Sample		Sample	Sample	Groundwater	Thickness	Elevation	Elevation	Amal.	TPHE	TPHA	ТРНо	Benzene	Toluene	Ethylbenzene	Xylenes	МТВЕ	ÉTBE	DIPE	TAME	ТВА	PCE	TCE	1,2-DCA	cls-1,2 DCE	1,1-DCE	1,2,4-TBM	Naphthanene
No.	No.	Notes	Date	Period	(ft bgs)	(0)	(ft MSL)	(RMSL)	Units		*****	11.1.5			50,10	1.,					12/1-		1		101,000		1	
MW-2	MW-2	2	6/5/02	Jun-4/2	1441	8.80	20.50	640	1004	406	e 600	< 2000	< 1.0	< 1.0	e 10	c 20	< 2.0	< 20	< 2.0	< 2.0	56.7	· < 25	4.6	1.5	< 5.0	< 50	<u> </u>	
MW.2	MW-2	2	946/02	Sep-02	1491	9.00	20.50	6.59	us/L	71	< 500	< 2000	< 1.0 .	< 10	< 1.0	< 20	< 2.0	< 2.0	< 2.0	< 20	15.7	< 25	2.7	9.7	< 5.0	< 5.0		
MW-2	MW-2	2	12/12/02	Dec-02	15.41	0.80	20.50	5.09	ug/L	461	< 500	< 2900	\$6.5	<1.5	2.9	1.6	< 20	< 20	< 2.0	< 20	< 10	< 2.5	6.5	2.4	< 5.0	< 5.0		
MW-2	MW-2	. 23	12/12/02	Dec-02 -	15.41	0.00	20.50	5.09	μ ε/ L	493	< 500	< 2009	\$7.2	< 2.0	3.7	9.5	< 20	< 2.0	< 20	< 20	< 10	< 25	7.3	9.3	< 5.0	< 5.0		
MW-2	MW-2	2	3/13/03	Mar-03	14.75	0.00	20.50	5.75	µø/L	729	< 500	< 2000	151	< 1.9	43	9.3	< 2.0	< 2.0	< 2,0	< 2.0	. 28_	< 2.5_	9.0	14.1	< 5.0	< 5.0	< 5.0	- 5.0
MW-2	MW-2	2,3	3/13/03	Mar-43	14.75	0.00	20.50	5.75	μ α L	757	, -	-	172	< 1.0	5.9	10.8	< 2.0	< _2.0	< 2.0	< 2.0	26	< 25	9.6	17.6	< 5.0	< 5.0	< 5.0	< 60
MW-2	MW-2	2,3	6/4/03	Jun-03	1443	0.00	20.50	6.07	μ ε /L	930	< 500	< 2000	399	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 25	3.5	7.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-3	MW-3	5	10/1/95	Oct-95		-	96.15		μg/τ.	< 50	<u> </u>		ND ND		ND	ND						ND	ND	ND_		<u> </u>	<u> </u>	
MW-3	MW-3	5	1/1/96	Jan-96			96.15	<u> </u>	μ <u>p/L</u>	ND			ND	ND	ND	ND		<u> </u>				ND	ND	ND			<u> </u>	
MW-3	MW-3	5	6/12/96	Jun-96	17.56	0.00	96.15	78.59	μ ε/ Έ.	< 50		< 0.5	< 0.5	< 0,5	< 0.5	< 2	<u> </u>					< 0.5	< 0.5	< 0.5		<u> </u>		
MW-3	MW-3	5	9/5/96	Sep-96	18.32	0,00	96.15	77.83	μ <u>ε/L</u>	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 50	-				< 0.5	< 0.5	< 0.5	<u></u>			ļ <u>.</u>
MW-3	MW-3	5	12/3/96	Dec-96	18,57	0.06	96.15	77.58	με/τ	< 50			< 0.5	< 0.5	< 0.5	< 2	< 5.0				=_	2.3	< 0.5	< 0.5	< 0.5	< 0.5	ļ	
MW-3	MWJ	5	2/27/97	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	<u> </u>	
MW-3	MW-3	5	6/10/97	Jun-97	18.12	0.00	96.15	78.03	<u>µ</u> #/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	8/27/97	Aug-97	18.47	0.00	96.15	77.68	µg∕L_	< 50	~		< 0.5	< 0.5	< 0.5	< 2	< 50	 				5.8	< 0.5	< 0.5	< 0.5	< 0.5	 	
MW-3	MW-3	5	11/26/97	Nov-97	18.70	0.00	96.15	77.45	<u>με/</u> 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/(1/98	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	5/19/98	May-98	16.99	000	96.15	79.16	μ ε/L	< 50			< 0.5 < 0.5	< 0.5	< 0.5	< 2	< 5.0	-	 			5.5 c 9.5	< 0.5	< 0.5	< 0.5	< 0.5	 	
MW-3	MW-3	5	8/) (/98	Aug-98	17.51	0.00	96.15	78 64	μg/L	< 50	-					 	< 25	 	╁╌┈			< 0.5 5.5		< 0.5		< 0.5	 	1
MW-3	MW-3	5	11/9/98	Nov-98	18.07	0,00	96.15	78.08	με/L	< 50		-	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5 < 2.5				<u>=</u>	6.4	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5		
MW-3	MW-3		2/8/99	Feb-99	18,07	0.00	96.15		120/1	<			< 0.3	×	- US	< <u>0.5</u>	2.3					- 6.4	< 03	<	_< _0.5	<u> </u>		
MW-3	MW-3		2/11/99 5/10/99	Feb-99	17.04	0.00	96.15	78.95	1182	50			< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	<u> </u>	<u> </u>			5.1	< 0.5	< 0.5	< 0.5	< 0.5	1	
MW-3	MW-3	-	8/9/99	May-99 Aug-99	17.77	0.00	96.15 96.15	79.11	und.	< 50			< 0.5	4 05	< 0.5	< 0.5	< 2.5					48	< 0.5	< 0.5	< 0.5	< 0.5	 	
MW.3	MW-3		11/5/99	Nov-99	18.00	0.00	96.15	78.15	110/1.	< 50			< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	<u> </u>			_	7.2	< 0.5	< 0.5	< 0.5	< 0.5		
MW-3	MW-3	-	2/1/00	Feb-00	17,95	0.00	96.15	78 29	ue/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	5/2/00	May-00_	16.83	0.00	96.15	79.32	us/L	< 50	4		< 0.5	< 0.5	< 0.5	< 0.5	< 0,5					64	< 0.5	< 9.5	< 0.5	< 0.5	Ť ·	
MW-3	MW-3	5	8/1/00	Aug-00	17.13	0,00	96.15	79.02	ug/L	< 50			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			-		5.6	< 0.5	< 0.5	< 0.5	<_ 0.5		
MW-J	MW-3	5	11/6/00	Nov-00	17.54	0.00	96.15	78,61	μg/L	< 50	1		< 0.5	< 0.5	e.5	< 0.5	< 0.5			_	-	7.9	< _0.5	< 0.5	< 0.5	<0.5		
MW-3	MW-3	5	2/16/01	Feb-01	17,42	0.00	96.15	78.73	μg/L	< 50	1	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					89	< 0.5	< 0.5	< 0.5	< 0.5		
MW-3	MW-3	5	4/27/01	Apr-01	16.80	0.00	96.15	79.35	µg/L	< 50	٠,		< 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	7/24/01	Jul-01	17.08	0.00	96.15	79.07	μg/L	< 50	1		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-				11.0	< 0.5	< 0.5	< 0.5	< 0.5		
мw-з	MW-3	4	3/27/02	Mar-02	16.50	0.00	96.15	79.65	μg/L		-			<u> </u>			 		ļ						-			
MW-3	MW-3	2	6/5/02	Jun-02	16.53	0,00	22.29	5.76	μ <u>φ/L</u>	< 50	< 500	< 2000	< 1,0	< 1.0	< 1.0	< 2.0	< 2	< 2.0	< 2.0	< 2.0	< 10.0	20.5	4.5	< 5.0	< 5.0	< 5.0	<u> </u>	
MW-3	MW-3	_2	9/6/02	Sep-02	16.95	0.00	22,29	5.34	μ _g /L	< 50	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2	< _20	< 2.0	< 2.0	< 10.0	28.6	9.3	< 5.0	< 5.0	< 5.0		<u> </u>
MW-3	MW-3	2	12/12/02	Dec-03	17.36	0.00	22.29	4.93	µg/L	50	< 500	< 2000	< t.0	< 1.0	< 1.0	< 2.0	<u> </u>	< 2.0	<2.0	< 2.0	< 10.0	28.7	12.7	< 5.0	< 5.0	< 5.0		
MW-3	MW-3		3/13/03	Mar-03	16.84	0.00	22.29	5.45	<u>μ_α/τ</u>	< 50		-	< 1.0	< 1.0	< 1,0	< 2.0	-< 2	<	< 2.0	< 2.0	< 10.0	35,1	_ 12.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-3	MW-3	2	6/4/03	Jun-03	16.54	0.00	22.29	5.75	μ _g /L	< 50 	< 500	< 2000	< 1.0	< 1.0	< 1,0	< 2.0	< 2	<u> </u>	<u> 2.0</u>	< 2.0	< 10.0	40.8	11.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW4	-MW-4	\$ 1	101/95	Oct-96	A	8.00	92.01		part.	450	5 1 2 2 5 C			, ND	NU V	ALL STATES			5 6 99 4			ND	ND .	ND.		4.3.44	-	
NW4	MW-4	The section of the se	1/1/94	Jan 96		0.09	72.01		TOTAL STATE	126		**************************************		S S S S	See a de la se							, L	ND	× 0.5				
NO.	- MW-45		6/12/96 9/5/96	Jun-70	14.93	0.00	220	77.18	12.5	70		¿ 345	5 2	- 0c	e 05					8.8		4.	O. 10 .		2 3 05	E-V-Z-Ath		
MW-4			12/396	Dec-96	13.99	0.00		78.02	- Light		7. 4. Bed		SAMMEN .	2900		V CC V ('V V					4 A E 6	1	2 6	The second secon	Chief colors and and annual	2 05		
MW4				Feb-97	124	0.00		79.51	in t	198		< 300	J. L. SH	C. Eles		www. Torus California Commission	5.0					4 0 a	· 10	200		- 150 Sec.		
MW4	MW.4	**	C1077	Jun-97	1420	0.00	92.01	7731		200			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* 2.		≥ 2 2 3 3	C 50		TENER!	7630	在表示的	**** *** *****************************	6 03			S. 5-05		
MW-4	MW-4		2 /27/97	Aug-97	14.62	0.09	92.01		u L	170	- 7(W/ W 2)	< 0.5	A LANGUAGE	- < - 0.5	c 05	125.1.2 <u>2</u> .2.2	(T) (50)		e forfalls		生物学生	2 85	< 03		< 4 05	C 0.5.		
MW			- 117597	Nov-97	2. IS.00	0.90		77.01	prof.	100		< 508		₹ 2.05	_s	1 2 2 3	<s.o< th=""><th></th><th>4.0</th><th></th><th></th><th></th><th>∡ 65 -</th><th></th><th>San San San</th><th>é 85</th><th>2545</th><th></th></s.o<>		4.0				∡ 65 -		San San San	é 85	2545	
MW-a			2/11/92	Feb-98	14.10	0.00		77.91	- ugl.	110		< <500		< 0.5	< 0.5		< 5.0			an the section of the	Same Same Same	4 05	.c. 0.5	< 0.5	€ ∫ € 65	c 0.5		Z3 44. F 4
-MW-4 🔆	MW-4	50x	S/19/98 ->	May-98	13.57	- 0.00 Z	∴ 92.9 1	78.44	ugt	116		< .500		< 0.5			1	702					< 03		< 0.5	< 0.5	- 1	
MW-4	MW-4	1	£/10/98 ×	Aug-98	14.10	- 0.00 /-	-/- 92.0x >	17.91	ับ ท ี่	2 110	· ()	9,600	41 -	- < - ≥ es			-11: %	16 2 5 3 6	~~ w ^	- 12	25.5°	7		.< ∵	< 36.5, 05	< 0.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	を できる と
MW-4			11/9/98	Nov-98	14.75	0.00		77.26	night "	136		< 500	7.5	< 0.5					2.3.4	公本学,图操				c : [as		< - 0.5	*	18 A T 18 A T
MW-4	MW-4		27079	Feb. 99	-	3 1. 14. 14. 14. 14. 14. 14. 14. 14. 14.	92.01		1197			< 500		< 0.5	1	< 45	<u>₹ 25</u>				学、 <u>學 (学 ()</u> 200	est annual to the	< 0.5		< 0.5	< 0.5		
MW-4	MW-4		2/11/99	Feb-99	14.57	6.00	92.01	77.44	<u> Înd</u>		<u> </u>		<u> </u>		<u> </u>								<u> </u>					
MW-4			S/10/99	May-99	13.46 :	9.00	92-01	78.55	part.	3		< 5900	13	1	1		25	1 1 2 2 2 2 2		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		, , ,	< 05	<u>-≼ }</u> :63	< 0.5	< 0.5	1 2 2 2 2	-F/453.77
MW-4	MW-4		2009	Aug-59	14.15	0.00	92.01	77.86	19%			< 1000	75	c 8.5	< 0.5	< 0.5 %	39/40*		 		· ·		< 0.5.	< 05	< 0.5	< 0.5		
MW-4	MW-4		11/5/99	Nov-99	14.62	0.00	- 92.01	77.39	μα/L	e 59			9.0	< 0.5	< 0.5	-	< %- 25			· 15(章5)			< 0.5	c 0.5	< 9.5	< 0.5		
MW-4	MW-4		2/1/00	Feb-00	14.50	. 0.00	92.01	77.51	Part.	199		800	→ 18 · ·	<u>عب ف5</u>			< - 0.5	******						< 0.5	< 0.5	< 0.5	 	
- MW-4	MW-4	5	5/2/00	May-00	13.40	0.00	92.01	78.61	<u> 149/1 </u>		<u> </u>	< 1000	-8.5	< 6.5	< 0.5	< 0.5	< 0.5			.t. 155 =-		< 6.5	< 0.5	< 9.5	< 0.5	< 0.5	i	

Appendix B Historical Groundwater Monitoring Results Sears Auto Center # 1039 Oakland Caŭfornia (Page 3 of 5)

4														(Pag	e 3 of 5)													
						GROUNDWAT	TER LEVEL	s				LABOR	ATORY ANALYT	CAL RESULTS													*****	
I					Depth to	Stand Prod	Casing	Groundwater]					İ					i i									
Well	Sam	· 1	Sample	Sample	Groundwater	Thickness	Elevation	1	Anal.	TPHg	ТРНА	TPHe	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	ETBE	DIPE	TAME	TBA	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TBM	Naphthanene
309-4	MV		Date 1/1/00	Period	(ft bgs)	(n)	(ft MSL)	(ft MSL)	Units	ļ	 ,			 	 -	 		 ,										
MW-1			11/6/06	Avg-00	13.76	0.00	92.91	72.31	Part.	- 40	7.	< 1900	22	< <u>85</u>	< 85	< 0.5	< 83					< 95	< 65	< 0.5	<*. 40.5	<u> </u>		
MW-4	M		2/16/01	Feb-81	13.65	0.00	92.01	78.36	1	55		< 1990	16	< 0.5 < 0.5	< 85	< 0.5	< 0.5		-		***	< 0.5	<u> </u>	< 85.	< 0.5	< 0.5		
MA-	- 1		4/27/01	Apr-01	13.40	8.00	92.01	78.61	uer.	< 6		< 1800	6.7	< 0.5	< 0.5	< 05	< 0.5			· · · · ·		< 0.5	<. 0.5 < 0.5	< 85 < 85	< 0.5	< 0.5		
MW-4	MW	4 3	7/24/01	Jul-81	13.69	0.00	92.01	78.32	μ ε ι.	< 50		< 1000	0.7	< 95	< 0.5	·< 45	< 65	 				× 450	< 0.5	< 15	< 0.5	≺ 0.5	2	1 + 2 Jan 1 17 F
MW-4	MW	2	3/27/02	Mer-02	13.22	8.00	92.01	71.77	µg/L · ·	< 50	<50	< 500	1.4	< 0.50	< 0.50	< 1.0	< 5.0		_			× 0.50	4.90	< 0.50	< 0.50	4 45		
·MW-4	MW	7-4. 2	6/5/02	Jun-02	13.00	6.00	18.61	5.61	µg/L	< 50	< 500	< 2000	2.1	< 1.0	< 1.0	< 2.9	< 2.0	< 2.0	< 2.0	ė 20 Š	- 100	<. 25	< 25	< 50	< 5.0	3 50	1-27	
MW-4		-	9/6/02	Sep-02	13.46	0.00	18.61	5.15	page.	<u> 50</u>	< 500	< 2000	. < 1.0	< 1.0 .	< 1.0	< 2.9	< 2.0	< 20	< 2.0	< 2.5	< 10.0	/≼ 25 °	-< 25	< 5.6	< 5.0	< 50		- 4
MW-4			12/12/02	Dec-63	13.50	0.00	18.61	46	jig/L	115	< 590	< → 2000	43	< 1.0	-c 1.0	< 20	<u> </u>	< 20	<u> </u>	<u>ځ که . "</u>	< 10.0	√c' ∴ 25 _~	< 25	<: 50 ·-	< . 5.0			
A	MW	12020	3/13/03	Mar-03	13.28	8.00	1861	5.33	POL	< .50	- ,	-	< 1.0	< 1.0	< 1.0	< 2.0	< 2.9	< 20	< 20	< 2.0 =	` < . 100	< 25 ³	< 25 €	< 5.0	< 5.0	< 5.0	× 1.6	Æ 50
MW-5	MW		4/4/03	Jun-03	13.03	0.00	18.61	5.58	μ ρ/L	< 59	< 500	< 2000	<u> </u>	< \ 1.0	< 1.6	< 2.6	< 2.5 ⋅	< 2.9	< 2.0	< 20	< 10.0	< 25	< 25	< /50	K 5.0	< 6.0	< 5.0	ž
MW-5	MW		10/1/95	Oct-95		0.00	92.09	 	μe/L	260			86	, ND	ND	ND ND		 -				ND	ND	ND				
MW-5	MW		6/12/96	Jun-96	14.13	6.00	92.09	77.96	110/1	180			160	3.6	ND ND	ND ND	-					NÐ	ND	ND				
MW-5			9/5/96	Sep-96	14.77	0,00	92.09	77.32	µm/L	160			22	1.0	< 0.5	< 2	< 5.0				-	< 0.5 < 0.5	< 0.5	< 0.5		 	 	
MW-s	MW	-5 5	12/3/96	Dec-96	13.99	0.00	92.09	78.10	μ ε/L	170	_		18	0.6	< 0.5	< 2	6					< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5		
MW-5	MW	-5 5	2/27/97	Feb-97	12.08	6,00	92.09	80.01	ug/L	230			74	2.0	< 0,5	< 2	< 5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	
MW-5	Mw	-5 5	6/10/97	Jun-97	16.00	0.00	92.09	76.09	με/Ն	1,200	-		490	19.0	< 3.0	< 10	< 30					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<u> </u>	
MW-5	MW		8/27/97	Aug-97	14.55	0.00	92.09	77.54	μ _B /L	340		-	100	4.6	< 0,5	< 2	< 50				-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW		11/26/97	Nov-97	14.95	0.00	92.09	77.14	μg/1_	400			78	4.5	0.6	< 2	< 5.0	- -				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW		2/11/98	Feb-98	13.97	0.00	92.09	78.12	μg/L	320	 		62	2.9	< 0.5	< 2	< 5.0	<u> </u>				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW.		5/19/98 8/10/98	May-98	13.52	0.00	92.09	78.57	μ g/L	330			97	2.6	< 0.5	<u> </u>	< 5.0		-			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-S	MW	 	11/9/98	Aug-98 Nov-98	13.97	0.00	92.09	78.12 77.42	μg/L μg/L	190			48	1.9	< 0.5	< 0.5						< 0.5	< 0.5	< 0.5	<0.5	< 0.5		
MW-S	MW.		2/8/99	Feb-99	- 14.07	- 500	92.09		µg/L	82		-	3.8	< 0.5	< 0.5	< 0.5 < 0.5	< 2.5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW-		2/11/99	Feb-99	14.50	0.00	92.09	77.59	ue/L					<u> </u>			3.8	 			-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-s	MW.	-5 5	5/10/99	May-99	13.23	0.00	92.09	78.86	μ g/L	< 50	_	_	8.8	< 0.5	< 0,5	< 0.5	2.6/<2.0*		 			< 0.5	< 0.5	< 0.5	< 0.3	< 0.5		
MW-5	MW-	.5 5	8/9/99	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	11/5/99	Nov-99	14.40	0.00	92.09	77.69	μ _E /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-		2/1/90	Feb-00	14.15	0.00	92,09	77.94	μ ε/ Ι.	180	-		42	1.2	< 0.5	< 0.5	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW-		5/2/00	May-00	13.10	0.00	92.09	78.99	μ g/ L	120		-	. 12	0.7	< 0.5	< 0.5	< 0.5		-	<u>-</u>		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW-		8/1/00 11/6/00	Aug-00 Nov-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-		2/16/01	Feb-01	13.75	0.00	92.09 92.09	78.16 78.34	ug/L ug/L	72			7.0	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
MW-5	MW-	-	A/27/01	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	7/24/01	Jul-01	13.46	0.00	92.09	78.63	με/L	< 50	-	-	3.8	< 0.5	< 0.5	< 0.5	< 6.5					< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5		
MW-5	MW-	5 2	3/27/02	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-s	MW-	5 2	6/5/02	Jun-02	12.68	6.00	18.76	608	μ ε/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-		6/5/02	Jun-02	12.68	0.00	18.76	6,08	μ _α ντ.	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-		9/6/02	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	< 20	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0		
MW-5	MW-		12/12/02	Dec-03	13.76	0.00	18.76	5.00	µg/L	91	< 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5			< 5.0	< 5.0		
MW-5	MW-		3/13/03 6/4/03	Mar-03 Jun-03	13.09 12.69	0.00	18.76	5.67	µg/L	< 50		- 2000	< 1.0	< 1.0	< 1.0	< 2.0		< 2.0	< 2.0					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MW-6			10/1/95	Jun-03 Oct-95	1269 St. 1. 29 5.13	0.00	18.76	6.07	µg/L	57	< 500	< 2000	< 1.0	< 1.0	< 10	< 2.0	<u> </u>	< 2.0	< 2.0	< 2.0	< 10.0	< 2.5	< 2.5	< 5.0	< 5.0	< 5.0	< 5.0	5.0
MWs			TUNG A	Jan-96	FA.		3216		µg. L		A 20%		ND	ND V	ND ND	" ALL "" A	444	-1 hill helps () h (1/2/2/2		72 5	11				* A 3 3	
MW4	MW.		U1296	Jan-96	14.99		\$2.16		page.	\$0.50°		< Sas	< 05	(0.5°	< 0.5		"" 'V abr' Y7' . "		2 2 76		313412	72 3	12	75			3 (80%	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
MW-6	MW.	STA.	9/5/96	Sep.96	15.50	0.00	9216	76G		A S		· < 🖔 📆 📆		< 0.5 □	< 0.5		4 4	7 2 7 a	2.2			34.	5.2	335		Aug 1	2 30 m	
MW-6			12/3/96	Dec-96	15.07	£ .4.00	92.16	77.09	. μ υ τ.	₹ 58		₹ 9.5	< 65	<	× .705		4 - 5 - 5	- , & & . -	و بسندر وغم				1205.06	, 17 4 1 4 K 05 - 1-	< 5 05	c 0.5	12.00	
		€ 25 • € 2000	2/27/97	Feb-97	1414	0.00	92.16	78.02	µg/L	c 50		< .500	< 0.5	e 05	. E . D.S -	× 2 .	4. A. S. S. C.	"	5 2 may 1 may 1	-00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		∮*.: 13	0.5	< 0.5	e 0.5	< 0.5		
MW-6		5 35 5 3 3		Jun-97	. 15:30	0.00	· 92.16	7686	/ jug/L	. ₹	<u> </u>	* * * * * * * * * * * * * * * * * * *	6.9	~c - 05	<u>< -0.5 </u>	× 2	() () () () () () () () () ()			541.4	Part of the second	\$2.7 Y	·c :- 0.5	< 203 €	€ /2 0.5 °	e.5		
<u>₩₩.6</u>	MW	6 3 8 X	192091	A0#97	15.42		92.16	76.74	ug/L	S9 72		< -05	-c 0.5	c 95	< 0.5		# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					S es	< 05		€ 9.5	< 0.5		S
MW-6	MW-	€ - d€ ** € - d€ **	11/2697 2/11/98	Nov-97	15.70	, -,	92.16 92.16	76.46	μ g/Ľ '	< <u>₹.50 x.</u>	7 (3 <u>4</u> (3))	< 500	45	2/89	<u>√ 9.1</u> < 65	< 2	76	اجتحا				<u></u>		0.8	é	< 9.5		265 T. 37
		5	271198 5/19/98	Feb-98	14.37	0.00 8.80	92.16	7729	ுப்த¶ட் பத∕ட்	< 50 -		< 500 < -500	< 9.5	< 0.5	< 85		€ 13 × 5 × 1	1 3 X 2		1 m 4 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m		4.7	- 50.5	<u></u>	<u>c . 0.5</u>	< 9.5		77
MW-6		5	8/10/98	Aug-98	14.90	0.00	92.16	77.26	page:	< 50		9,800	< 0.5	< 9.5	<u>≺ 95</u>	~ ~	25 2		33%	= -	3 y a -3	0.6	<0.5	~ / / / / / / / / / / / / / / / / / / /	2	< 0.5		
MW-6			11/9/98	Nov-98	15.39	0.00	92.16	76.77	μ α/L	< 50		< 500	< 05	< 0.5	< 0.5	< 8.5	25			سا <i>ر <mark>- خ</mark></i> ستندی برساته ر	2.000 A	2 12	0.59	1.3.	< - 0.5 < 0.5	< 0.5	. 3	
MW-6		5 5	28.99	Feb-99			92.16	_	re/L	< 50		< 500	< 0.5	ح وو	< 0.5		< 25		, La		J 25	0.86	< 0.5		< 0.5 < ≈ 0.5	< 0.5 < 0.5		
MW-6	MW-4	2 5	2/11/99	Feb-99	15.21	0.00	92.16	76.95	ր ար Т.	-3 -us <u></u>			- 4		<u>.</u>	* - -	1 24 200	D	5 - J=500		V 3.	<u> </u>			7, 4	× U3		
											-																<u> </u>	

Appendix B Historical Groundwater Monitoring Results Sears Auto Center # 1039 Oakland California (Page 4 of 5)

														(Pag	e 4 of 5)													
]						GROUNDWAT		1				LABORA	TORY ANALYTI	CAL RESULTS		· · · · · · · · · · · · · · · · · · ·	7			····								
					Depth to	Stand Prod	Casing	Groundwater	i						1]					1						
Well	Sample No.	Notes	Sample	Sample	Groundwater	Thickness	Elevation	Elevation	Anal.	TPHg	TPHd	TPHe	Benzene	Totuene	Ethylbenzene	Xylenes	МТВЕ	ETBE	DIPE	TAME	TBA	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TBM	Naphthanene
- NW-6	MW-6	Notes	Date \$110777	Period Mar-99	(ft bgs)	(ft)	(0 MSL)	(R MSL)	Units	-					 	 		- FALKE								} -	<u> </u>	
MW			\$7/77	Aug-99	15.00	0.00	92.16	77.16	Hart.	2 S		< 5006 < 1406	< 0.5	< 85	< 05	< 0.5	< 25	<u> </u>	 _		 _	< 8.5	< 05	< 0.5	< 0.5	< 0.5		
MW-6	MW-6		19579	Nov-99	15.65	9.00	92.16	76.61	Ual.			< 1000	< 05	< 45	< 05	< 85	< 25	1	-	· •		0.85	< 0.5	< 0.5 1.2	~< -* 9.5 √ \$	< 0.5		
MW-6	MW4	5	2/1/00	Feb-00	15.40	0.60	9216	76.76	ueL	2 3		< .1005	< 05	< 85	< as	c 45	< 85			· · · · · ·		1.2	4.5	22	< 0.5 -	.< <u>95</u> ≤ 95		
MER 6	MIT-6	4.1	\$/2/00	May-00	1445	9.00	92.16	77.61	jog L	< 58		< 1000	< 0.5	< 0.5	< 6.5	<. 05	< 45		-			26	46	נו	< 0.5	K 05	 	12 2 3 3
MW-6	MW-s	-	2/5/00	Aug-00	1485	0.00	92.16	77.31	ug L	< .50	<u>.</u>	< 1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		_			es:	9.9	23	< .05 .20	< 0.5		
MW-6	MW-6		11/6/00	Nov-00	- 15.10	0.00	.92.16	77.06	pg L	< 50	<u>-</u> .	< 1900	< 0.5	< 0.5	< 0.5	< 0.5	< 9.5	4	- 7				0.9	. 3.3	v '05 '	2.0.5		* " C/!
MW-6	MW-6	4	2/16/01	Feb-01	1493 -	9.00	92.16	77.23	µg/L	< 50		< 1000	< 0.5	< . 0.5	< 0.5	5 05	< 0.5	المذار	<i>a</i> (1,3 2 86	- / -	(Z).	. 66	s 🤃 1.1	6.2	< 05	× 05		1 1 1 2 2 3 3
MW-6		2 - 3% \$ - 1	- 4/27/01 >	Apr-01	1440	0.00	92:16	77.76	μg/L,	c 50		< 1000	< 0.5 °	< ~ ` 0.5	< 0.5	< 0.5	< 0.5	<u> </u>	16. 14. C	<u> </u>	2 (2000)	A7:	27	. 39	e es	· 65		1. 12 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
T	MW-6	5	7/24/01	Jul-01	14.68	0.00	92.16	377.43	µg/L	< 50		< 1000	< 05	< 0.5	₹ 0.5	< 0.5	< 05			<u> </u>	7 37 7	46	í	45	< 85	< 0.5		
MW-4	MW-6	- A	3/27/02	Mer-82	14.09	0.09	9216	78.07.	He/L		2 , 00 per 40	<u>-4,5</u>							100	e aetra k ⊒ Se ja k i i		1 A A A A	-:-		- 3		4	
MW-6	100	38	6/5/02 9/6/02	Jun-02 Sep-02	14.96	0.00	18.91	4.65	iu/L	1 1 1	र रहे अ	TO THE P		 いるなど がるなど 		22 4	3 7 7	<u> </u>	2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			-	<u>7 y =-</u> /	, • ,	- 3	ि । /べ <u> </u>		
MW4	MW	37	12/12/82	Dec-03	15.13	0.00	18.91	3.78	122			7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g = V sale (mark) g = 1				72.77	* * 38 ***** (* 27 } /	1 7 0 mg m 2 17	2 (A 2 (A 2 (A 2 (A 2 (A 2 (A 2 (A 2 (A		-	<u> </u>			72.00 e 200 4 e		1.1.2 · 1.1.2
JIW 6	S. C. ANDREW	. 12	3/13/03	Mar-03	1465	0.00	1831	425	Salestin			G 243 3				20%	€. 58 20 d	< 20 -	20		< *** 210	2.5		~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		W 3 **	**************************************
MW4	MW-E	、五2.4	4403	Jun-03	1427	0.00	18.91	22-12 A&A 12 14	ue/L	64 - 64 - 50 50 is 54	ć 500	< = 2008	× 10	e 114.		e 120 20	< 428. 4	× 20	2 163	2.8	< 10	€ 21 a	~ < ~ 25	ভ< এ° . 5.0 ১. ১< এ° . 5.0 ১.		20005	<u> < , , , , , , , , , , , , , , , , , , </u>	₹ 200 10 0 €
MW-7	MW-7	5	10/1/95	Oct-95		0.00	93.80		µg/L	< 50			_ ND	ND	ND	ND			_	y ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		5.3	3.5	<u>€</u>	-	- A-79C7X09B-D		** **** *** **** ****
MW-7	MW-7	5	1/1/96	Jun-96		0.00	93.80		µд∕L	< 50	_	_	ND	NID	ND	ND						9.3	4.5	5.7	-			
MW-7	MW-7	5	6/12/96	Jun-96	16.56	0.00	93.80	77.24	rg/L	< 50			0.6	< 0.5	< 0.5	< 2		-				6.1	3.4	2.9				
MW-7	MW-7	5	9/5/96	Sep-96	17.10	0.00	93.80	76.70	μg/L	< 50			1.2	< 0.5	< 0.5	< 2	< 5	ļ	<u> </u>			£3	4.2	5.9				
MW-7	MW-7	. 5	12/3/96	Dec-96	17.12	0.00	93,86	76.68	µg/L	120		< 0.5	850	< 5	< 5	30	< 5					4	4_	75	< 3	< 3		
1 MW-7	MW-7	5	2/27/97	Feb-97	16.20	0.00	93,80	77.60	<u>µе/L</u>	2,500	- -		1500	3.0	23	< 10	< 30	 =-	 				4	65	< 0.5	< 0.5	<u> </u>	
MW-7	MW-7 MW-7	3	6/10/97 8/27/97	Jun-97	17.00	0.00	93,80	76.80	μg/L	3,200	=		1790	5	59	< 20	< 50	 				2	4.2	85	< 0.5	< 0.5		
MW-7	MW-7	-	11/26/97	Aug-97 Nov-97	17.18 17.40	0.00	93.80	76.62 76.40	μα/L μα/L	3,900 5,600		-		8.0 15.0	190	30	96	 			_ _	< 3	5	93	< 3	< 3	-	
MW-7	MW-7	5	2/11/98	Feb-98	16.65	0.00	93.80	77.15	ne/L	8,500			3,500	25.0	250	80	90	† -				3	5.9 8.9	120	1	< 0.5		-
MW-7	MW-7	5	5/19/98	May-98	15.96	0.00	93.80	77.84	μg/L	5,006			2,100	440.0	150	220	300	 				7	3.8	93 74	1.2 0.6	< 0.5 < 0.5	-	
MW-7	MW-7	5	8/10/98	Aug-98	16.48	0.00	93,80	77.32	μ g/L	1,600	_		690	< 10	13	< 10	< 50	-		-		< 3	3.3	100	< 2.5	< 2.5		
MW-7	MW-7	5	11/9/98	Nov-98	16.98	0.00	93,80	76.82	μ g/L	930			295	5.5	43	1.5	8.7	_			+	4.2	6.5	110	< 2.5	< 2.5	1	
MW-7	MW-7	5	2/8/99	Feb-99	<u> </u>		93,80		µg/L	1,500		<u> </u>	670	< 10	14	<10	< 50					6	3.4	74	< 1.2	< 1.2	1	
MW-7	MW-7	5	2/11/99	Feb-99	16.94	0.00	93,80	76.86	<u>με/L</u>	=								ļ _				-						
MW-7	MW-7	5	5/10/99	May-99	15.87	0.00	93,86	77.93	μ g/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	8/9/99	Aug-99	16.60	0.00	93.80	77.20	µg/L	1,500			570	5.1	28	30	300/6.5*	- -	<u> </u>			< 1	1.2	95	0.57	< 0.5		
MW-7	MW-7	5	11/5/99 2/1/00	Nov-99	17.01	0.00	93,80	76.79	μ g/L	2,106	 -		1,200	<u> </u>	61	25	150/11*		-			4	7.8	95	1.6	< 0.5	- 	
MW-7	MW-7	5	5/2/00	Feb-00 May-00	17.00	0.00	93.80 93.80	76.80 77.80	ug/L	4,600 4,200			2,600	16.0 25	80	210	< 5.0	† -				3	6	110	1.7	< 0.5		
MW-7	MW-7	5	8/1/00	Aug-00	16.40	0.00	93,80	77.40	μg/L	5,600			5,500	27	300	390	S 10	† - -			-	< 5.0	< 5.0	84	< 5.9	< 5.0	- -	
MW-7	MW-7	5	11/6/00	Nov-00	16.67	0.00	93.80	77.13	µg/L	6,000		.	3,400	29	230	330	< 10					< 10	< 10	85 66	< 10	< 10	 -	
MW-7	MW-7	5	2/16/01	Feb-01	16.60	0.00	93,80	77.20	μ -g/ L	4,400			3,400	27	200	290	3.1]			_	< 2	< 2	60	< 2	2	-	
MW-7	MW-7	5	4/27/01	Apr-01	16.00	0.00	93,80	77.80	μg/L	6,100	-		6,000	44	390	620	2.7					< 25	< 2.5	37	< 2.5	< 2.5		· · · · · · · · · · · · · · · · · · ·
MW-7	MW-7	5	7/24/01	Jul-01	16.22	0.00	93,80	77.58	pg/L	6,900	<u> </u>		4,500	16	390	840	< 2.0	<u> </u>				< 2.0	< 2.0	39	< 2.9	< 2.0		
MW-7	MW-7	5	3/27/02	Mar-92	15.74	0.00	93,80	78.06	μ g/L	34,000	570	< 500	6,400	< 50	230	370	< 500	-			-	< 50,0	< 50	< 50	< 50.0	< 50.0		
MW-7	MW-7	2	3/27/02	Mar-02	15.74	0.00	93,80	78.06	μ γ L	27,000	740	< \$00	6,500	< 50	280	500	7	 					< 50	< 50	< 50.0	< 50.0		
MW-7	MW-7	2	6/5/02	Jun-02	15.71	0.00	20,39	4.68	μ ρ/ L	12,100	< 500	< 2000	8,700	25	173	510	1 —		< 2.0				< 2.5	< 5.9	< 5.0	< 5.0		
MW-7	MW-7	2,3	9/6/02 9/6/02	Sep-02	16.16	0.00	20.39	4.23	µg/L	15,600	< 500	< 2000	11,500	< 1.0	< 1.0	515	1	< 2.0		< 2.0	< 10.0		< 2.5		< 5.0	< 5.0		
MW-7	MW-7		12/12/02	Sep-02 Drc-03	16.16	0.00	20.39	4.23 3.82	µ g/L µg/L	17,400 27,200	< 500 < 500	< 2000 < 2000	11,300 15,100	< 1.0 21.3	248	510 640		< 2.0	< 2.0	< 2.0 < 2.0	< 10.0 < 10.0	< 2.5		< 5.0	< 5.0	< 5.0		
	MW-7	2	3/13/03	Mar-03	16.12	0.00	20,39	4.27	μη/L μη/L	21,600	300	2000	16,700	< 10	445	1,070		< 2.0			< 10.0		< 2.5 < 2.5	18.3	< 5.9	< 5.0		
MW-7	MW-7	2	6/4/03	Jun-03	15.73	0.00	20,39	4.66	µg/L	18,100	< 500	< 2000	12,000	< 1.0	444	683	< 2.0	< 2.0	< 2.0		< 10.0	< 2.5 < 2.5		< 5.0 < 5.0	< 5.0	< 5.0 < 5.0		243
MW-8	MW-8	ો.ક	11/5/99	Nov-99	18.15	0.00	91.69	76.14	, agi	e 50			< _ 0.5	< 0.5	<u>2</u> /31	< 0.5	-	. v -	3.5 / 2.4		74 , - 26%2 /	2 1/2	< 25	< 5.0 2 0.5	< 5JJ	< 5.0		<u><</u> 5.0
NW-1	MW4	s .	2/1/09	Feb-60	18.10	0.00	94.69	76.39	μ _e /L	< '59			- 0.6	<	2 es		< 0.50		10000		/		0.5	- 0.5	< 0.5	× 0.5		
MW-4	$\overline{}$		5/2/86	May-00	17.26	0.00	91.49	77.23	ion.	5 9	43 .	·	1.1	c 0.5	a5	< 8.5	ي شوه ي	CAPT CALL	30.20		7. J E.	- 1. P. 5.9	AC 0.5	·< 05	c 05	₹ 0.5		7.7
MW-1	MW4		\$/1,00	Aug-80	17.52	0.06	54.69	76.97	I SAPEL .	< 59		-	< 0.3	-c 85		< 9.5	< 0.5	7 ° n - 12 'n 'n 'n 'n 'n 'n 'n 'n 'n 'n 'n 'n 'n	17. j., 💑 .	1. 6-11. 0. 13.65		2. 3. 2 3.6 5.		< 0.5	< 8.5	< 0.5		\$ " .
_ MW-s >	MW-8	5	11/6/09	Nov-00	17.83	- 0.00	94.69	76.56	μ α/L	< 50			1.3	< 0.5	< <u>0.5</u>	< 0.5	< 0.5		<u> </u>	<u>,</u>		1 St. 25.5	€ 0.5	c -> 0.5	< 0.5	< 6.5		
MW-s	MW-8	5 .	2/16/01	Feb-01	17.74	0.00	54.49	76.75	1197	< 50	-		< 0.5	< .> 0.5	× 0.5	< 0. 5	s 6.5	4	10 7 <u>4</u> 76			- /	< 0.5	c. 85	< . 0.5	< 0.5		
MW-E	MW-8	5	4/27/01	Apr-61	17,10	6.00	54.49	77.39	He/L	< 50			< 0.5	< 0.5	د مع	< 0.5	< 0.5	 	Section 2		<u> </u>		₹ 0.5	< 0.5	< - 0.5	< 0.5		
	MW-s	. 5	7/24/01	Jul-8i	17.33	0.00	94.49	77.16	µ a/L	< 50		- <u> </u>	< 0.5	< 0.5					100 mg 200 m 100 mg 200 mg		<u> </u>		< 0.5	< 0.5	< 0.5·	< #5		
MW-s	MW-E		3/27/92`	Mar-02	16,87	6.00	**************************************	77.62	page L	<u> </u>	<u> </u>		I				<u> </u>		L					<u> </u>		<u> </u>		

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

						GROUNDWA	TER LEVELS	s				LABOR.	ATORY ANALYI	ICAL RESULTS														
					Depth to	Stand Prod	Casing	Groundwater					ļ	1														
Well	Sample		Sample	Sample	Groundwater	Thickness	Elevation	Elevation	Arrai.	TPHg	TPH##	TPHe	Benzene	Toluene	Ethylbenzene	Xylenes	мтве	ETBE	DEPE	TAME	TBA	PCE	TCE	I,2-DCA	cis-1,2 DCE	1,1-DCE	1,2,4-TBM	Naphthauene
No.	No.	Notes	Date	Period	(ft bgs)	(n)	(ft MSL)	(ft MSL)	Units				 	↓		ļ						<u> </u>	<u> </u>					
MW.s	NW4	3.44	4/5/02	J::-02	. 16.81	8.01)	21.12	431	-11 0%	<u> </u>			<u> </u>	ļ <u>-</u>	<u> </u>			1914		-		- 3	**,					
MW4	MW-8	2	9/6/8/2	Sep-42	17.26	0.00	21,12	3.86	Page.	< . 50	< 500	< 2006	< 10	< 1.9	1.0	< 20	< 20	<u> </u>	c 20	< 2.0	< 10.0	45	< 25	< 50	< 55	< _5.0		`` 4
MM-1	MW-8	- 2	12/12/02	Dec-63	17.62	0.00	2L12	3.50	µart_	• • • • •	< 500	< 2906	< 1.0	< 10	5 10	< 20	<u> </u>	< 28	<u></u>	c 20	c 10.6	4 : 15	< 25	× 60	< 6.5	< 5.0	<u> </u>	
MW.e	MW-E	2	3/13/03	Mar 03	17.19	4.00	21.12	193	µg/L	<u> </u>			S 10	< 1.0	c 18	< 2.0	<u> </u>	c 2a .	< 20	<u> 28</u>	c 100	5.2	< . 25	< 5.6	< 50	< 5.0	< 5.0	5 50
S-MW4	MW-s	_ 2	6/4/03	Jose-63 \	16.80	0.00	21.12	432	<u>μα</u> πτ.	< 59	< 500	< 2006	12	c 10	< 1.0	< 28	< 20	< 20	c 20	c 28	c 18.8	25	<u> </u>	c. 5.0	< 50 ~	. c. · · 5.0 .	< 5.0	< 50
MW.9	M14-9		11/5/99	Nov-99	16.86	0.00	92.54	75.68	μετ	< 50			< 0.5	< 0.5	< 0.5	< 0.5	372.40				↓	65	29	32	<0.5	< 0.5	l	
MW-9	MW-9	. 5	2/1/00	Feb-00	16.70	0.00	92.54	75.84	μ ε/L	< 50			2.6	< 0.5	< 0.5	< 0.5	3.0*		<u> </u>		<u> </u>	60_	22	36	0,7	<0.5		
MW.s	MW-9	5	S/2/00	May-00	16.02	0.00	92.54	76.52	<u>μ#/L</u>			-	0.6	< 0.5	< 0.5	< 0.5	2.0*	-	- -		_	39	19	30	0.5	< 0.5	<u> </u>	1
MW-9	MW-9	5	8/1/00	Aug-00	16.34	0.00	92.54	76.20	μ ε/ Σ	70			< 0.5	< _0.5	< 0.5	< 0.5	2.7		<u> </u>	ļ	<u></u>	41	19	37	0,7	< 0.5		<u> </u>
MW-9	MW-9	5	11/6/00	Nov-00	16,55	0.00	92.54	75.99	μg/L	74			06	<0.5	< 0.5	< 0.5	3.2		 -		 	31_	15	34	0.8	< 9.5	<u> </u>	<u> </u>
MW-9	MW-9	5	2/16/01	Feb-01	16,31	0.00	92.54	76.23	μ e/L	52			<0.5	< 0.5	< 0.5	< _0.5	3.4			 	 	26	14	33	9.9	< 0.5		<u> </u>
MW-9	MW-9	5	4/27/01	Apr-01	15 90	0.00	92.54	76.64	μg/î.	4		 -	< 0.5	< 0.5	< 0.5	< 0.5	1.9	-			↓	1 42	16	38	9.6	< 0.5	ļ	<u> </u>
MW-9	MW-9		7/24/01	Jul-01	16.19	0.00	92.54	76,35	<u>με/L</u>	< <u>50</u>			< 0.5	< 0.5	< 0.5	<0.5	1.7		<u> </u>	 _		31	12	34	0.7	< 0.5	<u> </u>	<u> </u>
MW-9	MW-9	- 2	3/27/02	Mar-02	15,61	0.00	92.54	76.93	μ g/L	< 50	< 50	<\$00	<u>< 9.50</u>	< 0.50	< 0.50	< 1.0	< 5.0		<u> </u>	<u> </u>	- -	32	10	17	0.73	<0.50		
MW-9	MW-9		6/5/02	Jun-02	15,71	0.00	19.20	3.49	µæ/L	33.2	₹ 500	< 2000	< 1.0	< 1.0	< 1.0	< 2.0	23	< 2.0	< 2.0	< 2.6	< 100	33.2	12	< 5.0	< 5.0	< 5.0	ļ. ——	<u> </u>
MW.9	MW-9	- 2	9/6/02	Sep-02	16.13	0.00	19.20	3,49	μ μ/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	< \$.0	< 5.0		1
MW-9	MW-9	- 2	12/12/02	Dec-02	16.48	6.00	19.20	2.72	µg/Т	68	s 500	< 2000	< 1.0	10	< 1.0	<2.0	< 2.0	< 20	< 2.0	< 2.0	< 19.0	26.3	10.3	12.0	₹ 5.0	< 5.0	ļ	<u> </u>
MW-9 MW-9	MW-9	- 2	3/13/03	Mar-03	15.07	0.00	19.20	3.13	μ ε/L	< 50			< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	31.3	13.8	16.5	< 5.0	< 5.0	< 5.0	< 5.0
MW-9	MW-9	- 2	6/4/03	Jun-03	15.68	0.00	19.20	3.52	μg/L				<u> </u>			<u> </u>			-			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	l	L -

= Not applicable and/or no measurements taken/provided

"Pre-purge" sample

"Post-purge" sample

5: Duplicate sample 4. Well not sampled

Data obtained from Previous Consultant

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).

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

ND = Not detected at or above the method detection limit SP = Seperate-phase petroleum hydrocarbons present, not sampled

PCE = Tetrachloroehtene

< = 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 diesei range hydrocarbons by EPA Method 8015 (modified)

TRPo = Total Petroleum Hydrocarbons as oil range by EPA Method 8015 (modified)

1,2-DCA = 1,2-Dichloroethane

TCE = Trichlorochtene

cls-1,2-DCE = cis-1,2 Dichlaraethene

1,1-DCE = 1,1-Dichloroethene

1,2,4-TBA = 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-Isopropy) Ether

TAME - Tertiary Amyl Methyl Ether

TBA - Tertiary Butyl Alcohol

ETBE - Ethyl Tertlary Butyl Ether

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

APPENDIX C LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



Environmental Laboratories

06-19-2003

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:

06-04-2003

Lab Job No.:

UR306026

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-05-2003 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.

Phone: (323) 888-0728 Fax: (323) 888-1509

Sincerely

Roger Wang, Ph. D. Laboratory Director

Enclosures

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



Environmental Laboratories

06-19-2003

Client: **URS** Corporation

29863493/Sears Oakland 1039

Lab Job No.: UR306026

Phone: (323) 888-0728 Fax: (323) 888-1509

Project: Project Site:

1901 Telegraph Ave., Oakland, CA

Date Sampled

06-04-2003

Matrix:

Water

Date Received: Date Analyzed: 06-05-2003 06-07-2003

Batch No .:

AF07-GW1/for Gasoline

Date Analyzed:

Batch No.:

EF05-DW1/for Diesel & Oil

06-05-2003

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

Date of Analysis			06-07-03	06-07-03	06-07-03	06-07-03	06-07-03
Preparation Method		,	5030	5030	5030	5030	5030
Date of Analys	is for TPH	(D & O)	06-05-03	06-05-03	06-05-03	06-05-03	06-05-03
Date of Extractic	Date of Extraction for TPH (D & O)			06-05-03	06-05-03	06-05-03	06-05-03
Preparation Metho	3510C	3510C	3510C	3510C	3510C		
	LAB SAM	PLE LD.		UR306026-1	UR306026-2	UR306026-3	UR306026-4
CL	IENT SAM	PLE LD.		MW-1	MW-2	MW-3	MW-4
Analyte		MDL	MB				
TPH-Gasoline (C4 - C12)		50	ND	ND	930	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	106	71	117	104	98
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	122	124	122	122	122

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.



Environmental Laboratories

06-19-2003

Client:

URS Corporation

Lab Job No.:

UR306026

Project:

29863493/Sears Oakland 1039

Project Site:

1901 Telegraph Ave., Oakland, CA

Date Sampled

06-04-2003

Matrix:

Water

Date Received:

06-05-2003

Batch No.:

Date Analyzed:

Batch No .:

AF07-GW1/for Gasoline EF05-DW1/for Diesel & Oil

Date Analyzed:

Phone: (323) 888-0728 Fax: (323) 888-1509

06-07-2003 06-05-2003

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

	·						
Date of Analysis	s for TPH (Gasoline)	06-07-03	06-07-03	06-07-03	06-07-03	06-07-03
Preparation Method				5030	5030	5030	5030
Date of Analys				06-05-03	06-05-03	06-05-03	06-05-03
Date of Extraction			06-05-03	06-05-03	06-05-03	06-05-03	06-05-03
Preparation Method			3510C	3510C	3510C	3510C	3510C
	LAB SAM		UR306026-5	UR306026-6	UR306026-7	UR306026-8	UR306026-9
	IENT SAM	PLE LD.	MW-5	MW-6	MW-7	MW-8	DUP-1
Analyte		MDL					
TPH-Gasoline (C4 - C12)		50	57	ND	18,100	ND	850
TPH-Diesel (C13 - C23)		500	ND	ND	ND	ND	ND ND
TPH-Oil (C24 - C40)		2000	ND	ND	ND	ND	ND ND
Surrogate	Spk Conc.	ACP%	%RC	%RC	%RC	%RC	%RC
BFB (for TPH-Gasoline)	20 ppb	70-130	105	101	89	103	99
Diocthyl Phthalate (for TPH-D & O)	5 ppm	70-130	120	120	122	124	122

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.



Environmental Laboratories

06-19-2003

Client:

URS Corporation

Lab Job No.:

UR306026

Project:

29863493/Sears Oakland 1039

Project Site:

1901 Telegraph Ave., Oakland, CA

Date Sampled

06-04-2003

Matrix:

Water

Date Received:

06-05-2003

Batch No.:

AF07-GW1/for Gasoline

Date Analyzed:

Phone: (323) 888-0728 Fax: (323) 888-1509

06-07-2003

EPA 8015M (Gasoline, Diesel & Oil)

Reporting Unit: µg/L (ppb)

Date of Analysis	for TPH (Gasoline)	06-07-03	06-07-03	06-07-03		
Preparation Method	•	,	5030	5030	5030		
Date of Analys		` '	06-05-03			·	
Date of Extraction	n for TPH	(D & O)	06-05-03				
Preparation Metho	d for TPH	(D & O)	3510C			···	
	LAB SAM	PLE I.D.		UR306026-10	UR306026-11	 	
	ENT SAM	PLE LD.		EB-1	TRIP		
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	106	102	100		
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.



Environmental Laboratories

Client: URS Corporation

Lab Job No.: UR306026

Date Reported: 06-19-2003

Project: 29863493/Sears Oakland 1039

Matrix: Water

Date Sampled: 06-04-2003

Phone: (323) 888-0728 Fax: (323) 888-1509

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

PREPARATION METHO DILUTION FACTO LAB SAMPLE I CLIENT SAMPLE I COMPOUND MD Dichlorodifluoromethane 5 Chloromethane 5 Vinyl Chloride 2 Bromomethane 5 Chloroethane 5 Trichlorofluoromethane 5 I,1-Dichloroethene 5 Indomethane	OD 5030 OR 1 .D	5030	MW-2 ND ND ND ND ND ND ND ND ND ND ND ND ND	06-09-03 5030 1 UR306026-3 MW-3 ND ND ND ND ND ND ND ND ND	06-09-03 5030 1 UR306026-4 MW-4 ND ND ND ND ND ND ND ND ND ND ND ND ND	06-09-03 5030 I UR306026-5 MW-5 ND ND ND ND ND ND ND ND	
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Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene 5 Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND ND ND ND	ND ND	ND	ND	NTO.	ן אט ן	
trans-1,2-Dichloroethene 5 1,1-Dichloroethane 5 2,2-Dichloropropane 5 cis-1,2-Dichloroethene 5 Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND ND ND	ND			תאַד ו	ND	
1,1-Dichloroethane 5 2,2-Dichloropropane 5 cis-1,2-Dichloroethene 5 Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND ND			ND	ND	ND	
2,2-Dichloropropane 5 cis-1,2-Dichloroethene 5 Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene 5 Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene			ND	ND	ND	ND	
Bromochloromethane 5 Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	ND	ND	ND	ND	
Chloroform 5 1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene		ND	ND	ND	ND	ND	
1,2-Dichloroethane 5 1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane 5 Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride 5 1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	7	ND	ND	ND	
1,1-Dichloropropene 5 Benzene 1 Trichloroethene	ND	ND	ND	ND	ND	ND	
Benzene 1	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	ND	ND	ND	
Trichloroethene 2.5	ND	ND	399	ND	4.4	ND	
II	ND	3.5	3.5	11.5	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	
Tetrachloroethene 2.5	ND	37.1	ND	40.8	ND	ND	
1,2-Dibromoethane(EDB) 5		ND	ND	ND	ND	ND	



Environmental Laboratories

Client: URS Corporation

Lab Job No.: UR306026

Date Reported: 06-19-2003

Project: 29863493/Sears Oakland 1039

Matrix: Water

Date Sampled: 06-04-2003

Phone: (323) 888-0728 Fax: (323) 888-1509

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

				Page 2 of 2				
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
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	<u> </u>
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	NĎ	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	ND	ND	ND	ND	
SURROGATE	SPK Conc.	%RC	%RC	%RC	%RC	%RC	%RC	Accept Limit%
Dibromofluoro-methane	25	81	82	89	81	98	97	79-126
Toluene-d8	25	93	92	95	92	90	93	79-121
Bromofluoro-benzene	25	100	104	104	103	103	101	71-131

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



Environmental Laboratories

Client: URS Corporation

Lab Job No.: UR306026

Date Reported: 06-19-2003

Project: 29863493/Sears Oakland 1039

Matrix: Water

Date Sampled: 06-04-2003

Phone: (323) 888-0728 Fax: (323) 888-1509

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

						it: µg/L(ppb		
			06-09-03	06-09-03	06-09-03	06-09-03	06-09-03	06-09-03
PREPARATION !	METHOD	5030	5030	5030	5030	5030	5030	5030
DILUTION	FACTOR	1	1	50	1	2	1	1
LAB SAM	PLE LD.		UR306026-6	UR306026-7	UR306026-8	UR306026-9	UR306026-10	UR306026-1
CLIENT SAM	PLE LD.		MW-6	MW-7	MW-8	DUP-1	EB-1	TRIP
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	ND	9	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	12,000	1.2	382	ND	ND
Trichloroethene	2.5	ND	ND	ND	ND	3.5	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	Í	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	5	ND	ND	ND	ND	ND	ND	ND



Environmental Laboratories

Client: URS Corporation

Lab Job No.: UR306026

Date Reported: 06-19-2003

Project: 29863493/Sears Oakland 1039

Matrix: Water

Date Sampled: 06-04-2003

Phone: (323) 888-0728 Fax: (323) 888-1509

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

COMPOUND	MDL	MB	MW-6	MW-7	MW-8	DUP-1	EB-1	TRIP
Chlorobenzene	5	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND
1,1,1,2-Tetrachloroethan	5	ND	ND ND	ND ND	ND ND	ND	ND	ND
Ethylbenzene	1	ND	ND	444	ND	ND	ND	ND
Total Xylenes	2	ND	ND	683	ND	ND	ND	ND
Styrene	5	ND	ND 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 ND	ND	ND ND	ND
n-Propylbenzene	5	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
2-Chlorotoluene	5	ND ND	ND	ND ND	ND	ND	ND	ND ND
4-Chlorotoluene	5	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND ND	ND ND	ND ND
tert-Butylbenzene	5	ND	ND ND	ND ND	ND ND		1	
1,2,4-Trimethylbenzene	5		F		ľ	ND	ND	ND
Sec-Butylbenzene	I	ND	ND	223	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND ND	ND	ND	ND	ND	ND
41 -	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	81	97	97	100	97	94	84
Toluene-d4	25	93	93	93	92	94	94	91
Bromofluoro-benzene	25	100	103	102	102	100	98	96

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



Environmental Laboratories

06-19-2003

EPA 8015M (TPH) Batch QA/QC Report

Client:

URS Corporation

Lab Job No.:

UR306026

Project:

29863493/Sears Oakland 1039

Lab Sample ID:

UR306026-1

Matrix:

Batch No.:

Water

EF05-DW1

Date Analyzed:

Phone: (323) 888-0728 Fax: (323) 888-1509

06-05-2003

L 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	22.3	22.4	111.5	112.0	0.4	30	70-130

IL LCS Result Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-d	21.1	20	112.5	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

06-19-2003

EPA 8015M (TPH) Batch QA/QC Report

Client:

URS Corporation

Lab Job No.:

UR306026

Project: Matrix: 29863493/Sears Oakland 1039

Lab Sample ID:

UR306026-8

Batch No.:

Water AF07-GW1

Date Analyzed:

Phone: (323) 888-0728 Fax: (323) 888-1509

06-07-2003

L 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	907	1,060	90.7	106.0	15.6	30	70-130

IL LCS Result Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-G	1,110	1000	111.0	80-120

ND: Not Detected (at the specified limit).



Environmental Laboratories

06-19-2003

EPA 8260B Batch QA/QC Report

Client:

URS Corporation

Lab Job No.:

UR306026

Project:

29863493/Sears Oakland 1039

a , m

UR306026-6

Matrix:

Water

Sample ID: Date Analyzed:

06-09-0903

Phone: (323) 888-0728 Fax: (323) 888-1509

Batch No:

0609-VOAW

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	19.3	23.2	96.5	116.0	18.4	30	70-130
Benzene	ND	20	18.9	22.8	94.5	114.0	18.7	30	70-130
Trichloro- ethene	ND	20	20.0	23.9	100.0	119.5	17.8	30	70-130
Toluene	ND	20	18.1	20.5	90.5	102.5	12.4	30	70-130
Chlorobenzene	ND	20	19.3	22.2	96.5	111.0	14.0	30	70-130

IL LCS Result Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	22.0	20.0	110.0	80-120
Benzene	22.8	20.0	114.0	80-120
Trichloro-ethene	23.9	20.0	119.5	80-120
Toluene	20.8	20.0	104.0	80-120
Chlorobenzene	22.7	20.0	113.5	80-120

ND: Not Detected.

SOUTHLAND TECHNICAL SERVICES, INC.

Page __of

CHAIN OF CUSTODY RECORD

140306026 Lab Joh Number

																			
Address Address					•				Ana	lyses	Req	ueste	i				T.A.T. Requested ☐ Rush 8 12 24 hours		
Address 2020 E.	1s+s+	S PA	NTA ATL	MA ANA CA			BE)				(EX)	тт.)							☐ 2-3 days Normal
Scott Rowkinds	7148356886] "^	Kas Lawson				X.MT	ne)	(ites. B7	Confirm.)		8015m					Sample Condition Chilled M Intact
Project Name/No.	Project Site OAKL	4N)	D #10	39			(BTE	asoli	iesel	OCs)	ygen	TBE	7	80		İ			☐ Sample seals
Client	Lab	Sam	ple Collect	Matrix	Sample		502/8021 (BTEX.MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE	TPH	TPHA	•				Remarks
Sample ID	Sample ID	Dat		Туре	Preserve	container	602	801	801	826	826	826	1						
MW-3	UR306026-3	6/4	03 0755	<u> </u>	HC1	3 VOA				X				X					
MW-3			0755	L		IL AMBER							X						
mw-6 mw-6	-6		0845	<u>L</u>	HCI	310A				X				X			<u> </u>		
mw-6			0845	<u>L</u>		1L Amb							X						
mw-l	_/		0925	<u>L</u>	HCI	3 VOA				X				X			ļ		
mw-l			0925	L	,	11 Amb							X					<u> </u>	
mw-7	-7		0955	L	HCI	3 VOA				\times				X				.	
MW-7			0955	<u></u>		16 Amb							X		:	ļ	ļ	<u> </u>	
MW-8	-8		1025	<u> </u>	HCI	3 VOA				\times				$ \mathcal{X} $	-		<u> </u>	<u> </u>	
MW-8 MW-5 MW-5			1025			16 Amb							X						
mw-5	-5-		1(00	L.,	HCI	3 VOA				X				X					
mw-5			1100	<u> </u>	~	14 Amb							X						
MW-4	-4		1145	<u></u>	HCI	3VOA				X				X			<u> </u>		
MW-4			1145	L	_	1L Amb							X						
mw-2	-2		1735	<u> </u>	HCI	3VOA				X			MP	X					
Metal - 3			1935	<u>L</u>		ILAmb							X	<u> </u>					
Relinquished		125		6/4/03		Received (1)	L	Ne	6		Comp	15		1510 1:301		Λ≕Λi	ainer () ir Bag lass bo		M=Metal Tube P=Plastic bottle V=VOA vial
Relinquished by	Comp	pany		Date	Time	Received by					Comp	any				G=GI	iass oc	ntic	Y-YOM YIAI

Southland Tech. Services, Inc.

7801 Telegraph Road, Suite L & K Montebello, CA 90640

Tel: Fax:

(323) 888-1509

(323) 888-0728

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.

Page 2 of 2
Lab Job Number WR 306026

CHAIN OF CUSTODY RECORD

ient URS Corporation	 						Ana	lyses	Requ	este	j				T.A.T. Requested Rush 8 12 24 hours
2020 E. 1st St. Santa	Ana CA		BE)				EX)	ш.)						·	☐ 2-3 days Normal
port Atlention Phone 7148356886 Fax	Corporation 1st St. Santa Ana CA Phone 7148356886 Fax Sampled by Lawson						tes. B1	Confirm.)							Sample Condition Chilled M Intact
SEARS Project Site OOKLAND #10	?9		(BTE	iasolir	iesel)	(SCS)	cvgena	ITBE							☐ Sample seals
Client Lab Sample Coll		No.,type* & size of	602/8021 (BTEX.MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE							Remarks
Sample ID Sample ID Date Tin	e Type Preserve	container	602	801;	801	826	826(826							
DUP-1 -9 6/4/03 124		3 VOA				\times									
=B-1 +0 24		3 VOA				X									
TRIP -1 -	L HCI	3 NOA				X						L			
										į					
											,,				
linquished by Company	694/03 1400	Received by				<u></u>	Com 51	pany	6	751.			iner ty ir Bag		M=Metal Tube P=Plastic bottle
linquished by Company	1 (((~))	Redeived by	<u> </u>	<u> </u>	<u>5</u>		Com	pany	·	1:50	7		lass bo		V=VOA vial

Southland Tech. Services, Inc.

7801 Telegraph Road, Suite L & K Montebello, CA 90640

Tel: Fax:

(323) 888-0728 (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 #: UR306026 **SAMPLES:** See table below

Field ID	QC Designations	Lab ID	TPH-Gasoline	TPH-Diesel, TPH-Oil	VOCs (including Fuel Oxygenates)
MW-3		UR306026-3	X	X	X
MW-6		UR306026-6	X	X	X
MW-1		UR306026-1	X	X	X
MW-7		UR306026-7	X	X	X
MW-8		UR306026-8	X	X	X
MW-5		UR306026-5	X	X	X
MW-4		UR306026-4	X	X	X
MW-2		UR306026-2	X	X	X
Dup-1	Field duplicate of MW-2	UR306026-9	X	X	X
EB-1	Equipment blank	UR306026-10	X		X
TRIP	Trip Blank	UR306026-11	X		X

Date Sampled: 6/4/03

DATA REVIEW MATRIX

QC Parameter	TPH-Gasoline EPA5030/8015M	TPH-Diesel, 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	~	V	✓
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-8. The results were within acceptance criterion.
- 2. MS/MSD was conducted on sample MW-1. The results were within acceptance criterion.
- 3. MS/MSD was conducted on sample MW-6. The results were within acceptance criterion.

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

STS is certified by California Department of Health Services (Certificate Number 1986).

<u>Summary</u>: 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)

Three samples (MW-2, MW-7, 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, there are also non-detect VOCs and fuel oxygenates results with elevated reporting limits. The data user must evaluate the utility of non-detect VOCs, and fuel oxygenates results with elevated reporting limits.