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ALCO HAZMAT 93 NOV 18 AM 10: 50

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

November 12, 1993

Project No. 020204554

Ms. Bernadine Palka Sears, Roebuck and Company 3333 Beverly Road, Building A2-281A Department 824C Hoffman Estates, IL 60179

SUBJECT:

Quarterly Monitoring and Sampling Report - August through October 1993

Former Sears Automotive Center

2633 Telegraph Avenue Oakland, California

Dear Ms. Palka:

Groundwater Technology, Inc. is pleased to submit this *Quarterly Monitoring and Sampling Report* for August through October 1993. The report presents the results of monitoring well gauging and sample analyses for the former Sears Automotive Center located at 2633 Telegraph Avenue, Oakland, California (Attachment 1, Figure 1). The monitoring and sampling activities were performed and this report prepared according to the *Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites*, dated August 10, 1990, the *State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual*, and the sampling requirements approved by Alameda County Health Care Services Agency, October 7, 1992, and amended in correspondence to Sears, dated June 1, 1993.

SUMMARY OF WORK COMPLETED

Monitoring Well Gauging

On August 13, September 16, and October 22, 1993, the depth to groundwater was measured in five monitoring wells using an INTERFACE PROBETM Well Monitoring System, which can detect both water and separate-phase product levels. On October 22, 1993, the INTERFACE PROBETM was apparently not functioning properly and was unable to detect separate-phase product in well MW-3. Therefore, the wells were monitored again on November 3, 1993. Groundwater monitoring data are presented in Attachment 2, Table 1.

4554R023.020

Groundwater monitoring data were used to construct potentiometric surface maps (Figures 2 through 4). A measurable thickness of separate-phase hydrocarbons was detected in well MW-3 during this reporting period. The local groundwater gradient was approximately 0.02 foot per foot (ft/ft) to the south on August 13, 1993, September 16, 1993, and November 3, 1993.

Monitoring Well Sampling and Results

On September 16, 1993, groundwater samples from four of the five on-site wells were collected for hydrocarbon constituents and dissolved metals analyses. Well MW-3 was not sampled because separate-phase hydrocarbons were detected in the well. Before sampling, the wells were purged of approximately 4 well-casing volumes. The temperature, conductivity, and pH of the purge water were measured during purging. Well purge data are included in Attachment 3.

Groundwater samples were collected using a Teflon™ bailer and placed in appropriate containers. The sample containers were labeled and placed in an Ice-chilled, insulated cooler for transport under chain-of-custody protocol to a California-certified laboratory for the analyses described below. A summary of historical groundwater analytical results is presented in Table 2.

- Groundwater samples from well MW-1 were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) Methods 5030/8020 and total petroleum hydrocarbons-as-motor oil (TPH-M) using a gas chromatograph flame-ionization detector (GC-FID) hydrocarbon scan method of detection.
- Groundwater samples from wells MW-2 and MW-5 were analyzed for BTEX and total petroleum hydrocarbons-as-gasoline (TPH-G) using EPA Methods 5030/8020 and modified EPA Method 8015; TPH-M using GC-FID; dissolved lead using EPA Method 7421; and cadmium, chromium, nickel, and zinc using EPA Method 6010.
- Groundwater samples from well MW-4 were analyzed for BTEX and TPH-G using EPA Methods 5030/8020 and modified EPA Method 8015; TPH-M using GC-FID; and dissolved lead using EPA Method 7421.

The laboratory reports and chain-of-custody records are included in Attachment 4. Figures 5 and 6 illustrate the distribution of TPH-G and TPH-M concentrations in the groundwater, respectively.

Aromatic Volatile Organic Compounds (VOCs). Concentrations of aromatic VOCs were detected in samples from wells MW-1, MW-2, MW-4, and MW-5 as follows: benzene from nondetectable to 0.3 micrograms per liter (μ g/l); toluene from nondetectable to 0.7 μ g/l; ethylbenzene from nondetectable to 2 μ g/l; and xylenes from nondetectable to 7 μ g/l. The results of BTEX analyses are summarized in Table 2.



Total Petroleum Hydrocarbons. Total petroleum hydrocarbon-as-gasoline concentrations of 28 µg/l and 410 μ g/l were detected in wells MW-2 and MW-4, respectively. No detectable concentrations of TPH-G were present in the sample from well MW-5. The analytical results of groundwater samples from wells MW-1, MW-2, and MW-5 reported no detectable concentrations of TPH-M; however, the laboratory did note the presence of hydrocarbons that were not indicative of motor oil in the samples from MW-1 and MW-2. A TPH-M concentration of 2,500 μ g/l was detected in the sample from MW-4. The results of TPH-G and TPH-M analyses are summarized in Table 2.

Metals. Lead was not detected in the groundwater samples from wells MW-2, MW-4, and MW-5. Cadmium, chromlum, nickel, and zinc were not detected in the groundwater samples from wells MW-2 and MW-5. The metals analyses results are summarized in Table 2.

WORK TO BE COMPLETED FROM NOVEMBER 1993 THROUGH JANUARY 1994

A schedule of work tasks at the site planned for November 1993 through January 1994 is presented.

<u>Date</u> 11/93	Task Monthly well gauging
12/93	Monthly well gauging and quarterly sampling
01/94	Monthly well gauging and preparation of <i>Quarterly Monitoring and Sampling Report</i> for November 1993 through January 1994.

Additional assessment is scheduled to be conducted starting on December 13, 1993, to further evaluate the horizontal distribution of hydrocarbons in the groundwater. The additional assessment will include the following activities:

- Collect additional soil and grab-groundwater samples. At least three sampling points will be located downgradient of the former tank pits along the southern edge of the subject property. The purpose of the additional sampling will be to evaluate the horizontal extent of petroleum hydrocarbons in the soil, and groundwater and to select locations for one to two additional monitoring wells.
- Install one to two additional monitoring wells downgradient of well MW-3.
- Prepare and submit a report to Alameda County Health Care Services Agency describing the findings of the further assessment.



DAVID R. KLEESATTE

NO. 5136

If you have any questions or comments concerning this report, please call our Concord office at (510) 671-2387.

Sincerely,

Groundwater Technology, Inc.

Written/Submitted by

Eileen S. Wray Project Geologist

Michael J. Wray

Project Manager

Groundwater Technology, Inc. Reviewed/Approved by

David R. Kleesattel

Registered Geologist

No. 5136

For:

Frank J. Gorry

Vice President, Operation

National Industry Division

Attachment 1 Figures

Attachment 2 Tables

Attachment 3 Well Purge Data

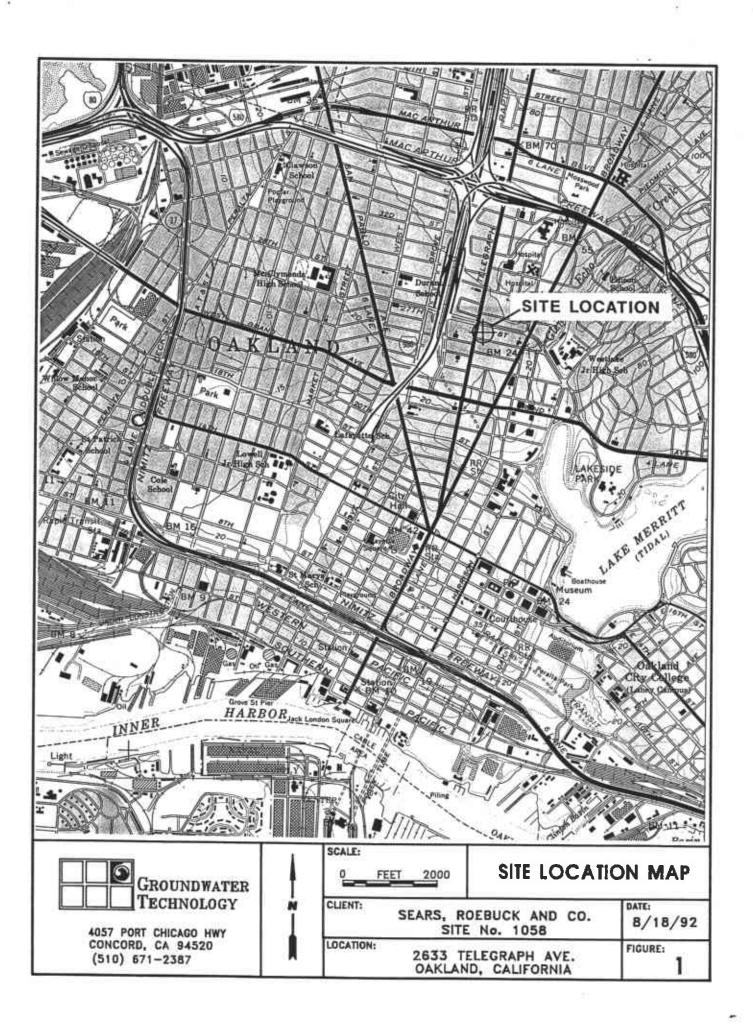
Attachment 4 Laboratory Reports and Chain-of-Custody Record

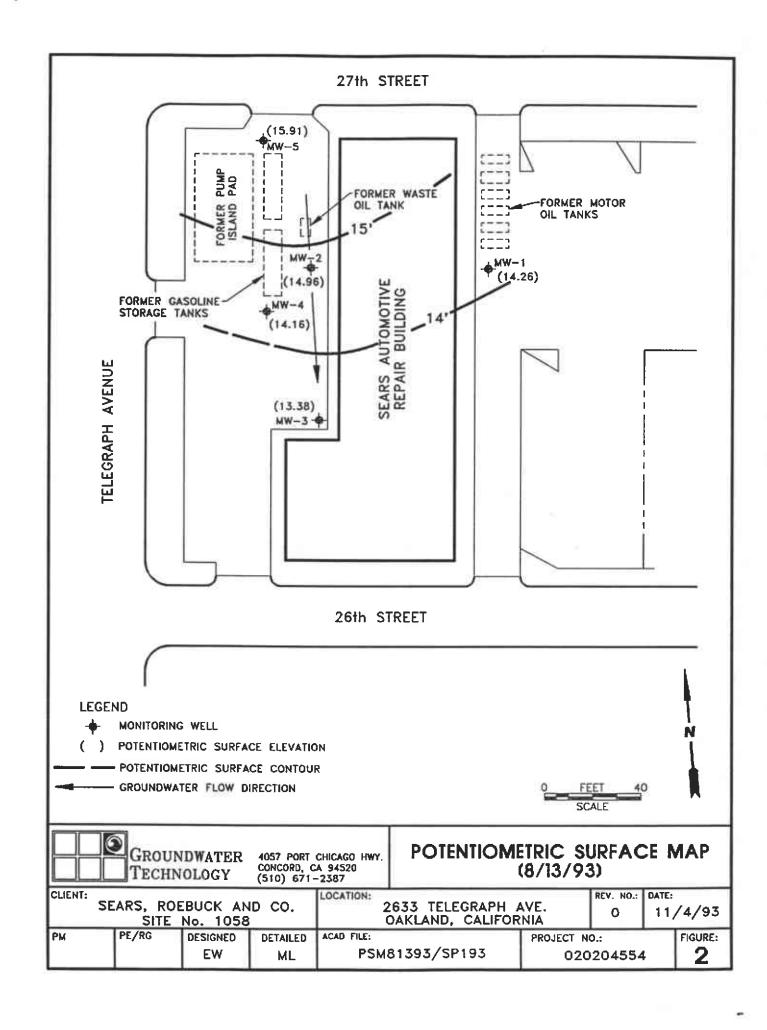
cc: Thomas Peacock, Alameda County Health Services Agency

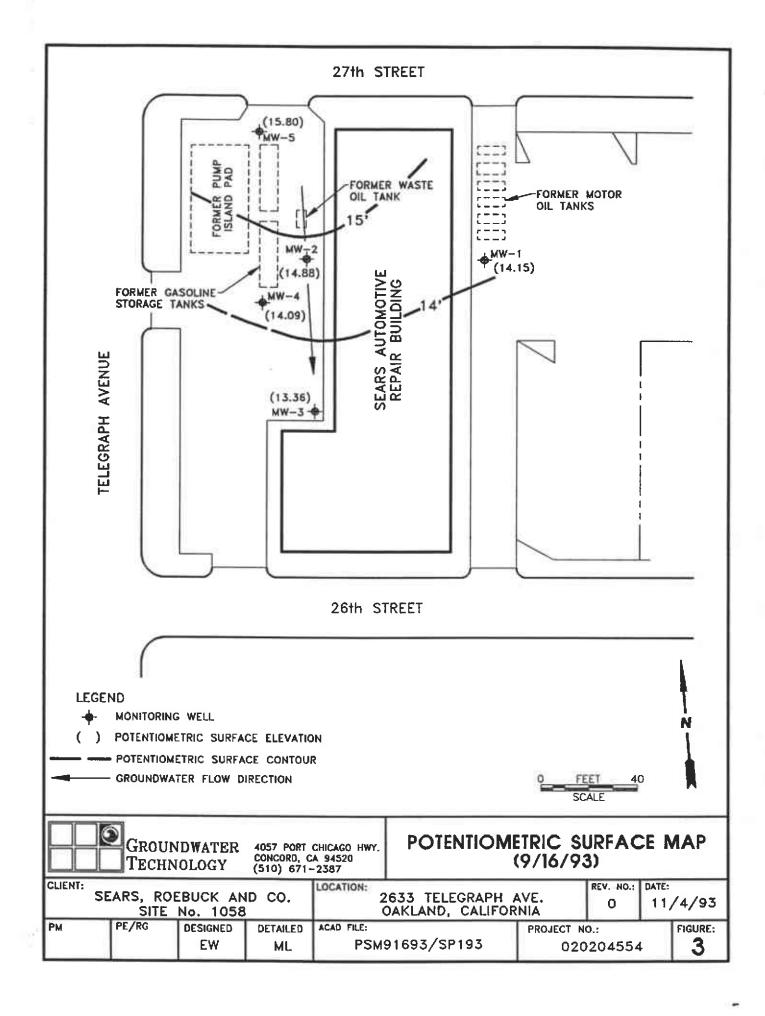
Richard Hlett, Regional Water Quality Control Board

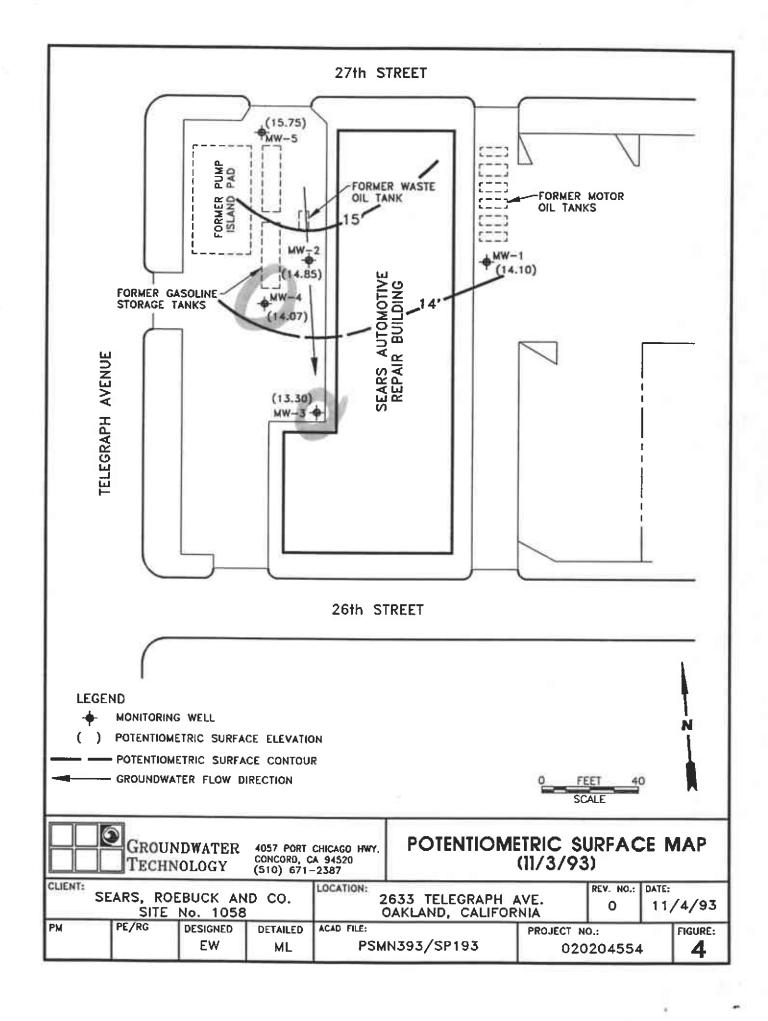
Figures

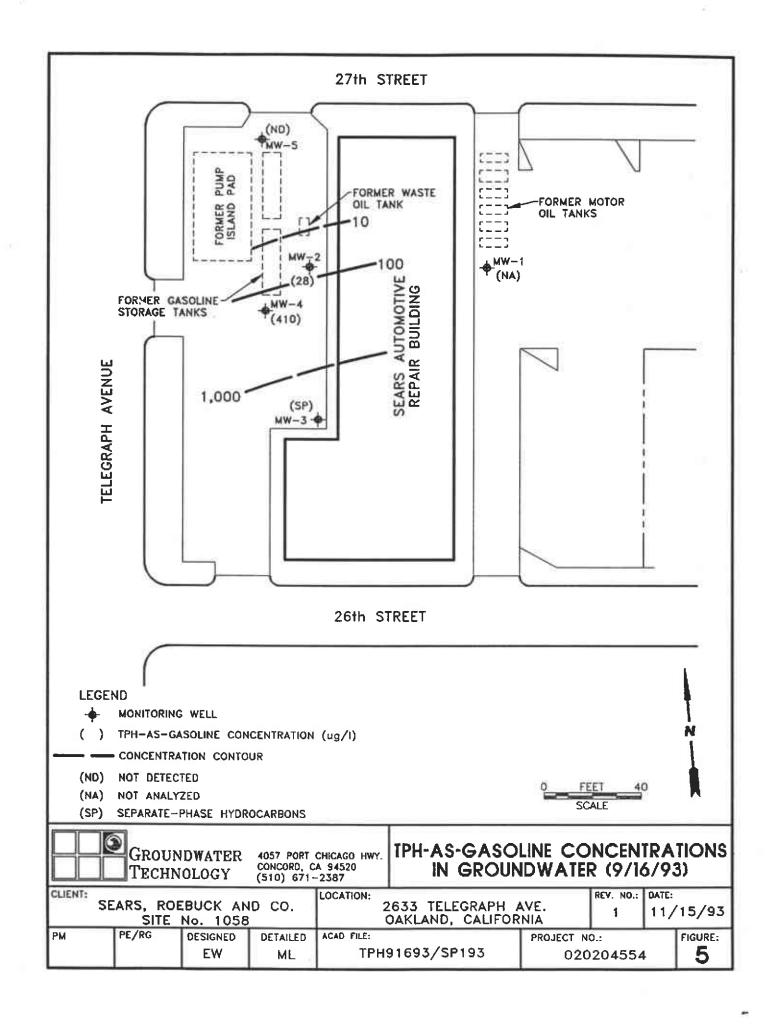
Figure 1	Site Location Map
Figure 2	Potentiometric Surface Map (08/13/93)
Figure 3	Potentiometric Surface Map (09/16/93)
Figure 4	Potentiometric Surface Map (11/03/93)
Figure 5	TPH-as-Gasoline Concentrations in Groundwater (September 1993)
Figure 6	TPH-as-Motor Oil Concentrations in Groundwater (September 1993)

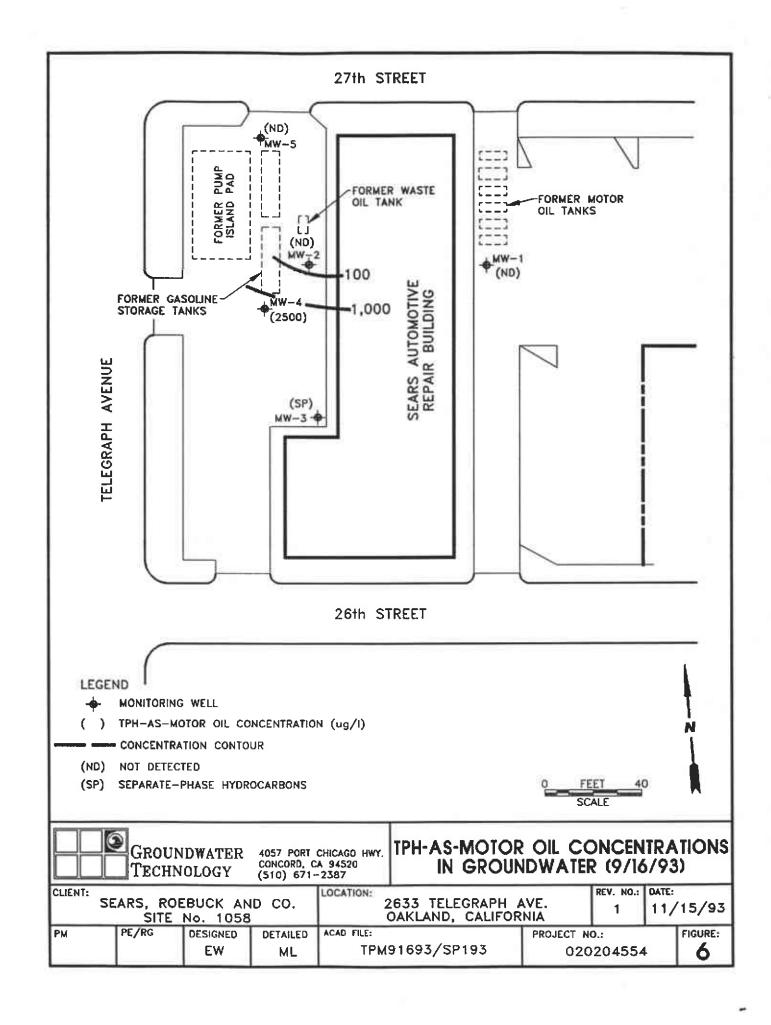












Tables

Table 1 Summary of Historical Monitoring Data

Table 2 Summary of Groundwater Sample Analytical Results

TABLE 1
SUMMARY OF HISTORICAL MONITORING DATA
Former Sears Automotive Center
2633 Telegraph Avenue, Oakland, California

Well	Casing	Date	DTW	DTP	PT	Groundwater
<u>No.</u> MW−1	Elev	10/05/50			1	Elevation
MIVV-1	26.20	12/30/92	10.60			15.60
		02/26/93	10.14			16.06
		03/24/93	10.48			15.72
		04/27/93	11.30			14.90
		05/28/93	11.43			14.77
		06/21/93	11.71			14.49
		07/22/93	11.87			14.33
		08/13/93	11.94			14.26
ŀ		09/16/93	12.05			14.15
		10/22/93	12.00			14.20
1 1 1 1 1		11/03/93	12.10			14.10
MW-2	26.50	12/30/92	10.65	- -	*	15.85
		02/26/93	10.56			15.94
		03/24/93	10.52			15.98
		04/27/93	11.17			15.33
		05/28/93	11.12			15.38
	-	06/21/93	11.41			15.09
		07/22/93	11.50			15.00
		08/13/93	11.54			14.96
		09/16/93	11.62			14.88
		10/22/93	11.57			14.93
		11/03/93	11.65			14.85
MW-3	26.34	12/30/92	12.43		*	13.91
		02/26/93	12.21			14.13
		03/24/93	12.36			13.98
		04/27/93	12.70			13.64
		05/28/93	12.72			13.62
		06/21/93	12.87			13.47
		07/22/93	12.92			13.42
		08/13/93	12.96			13.38
		09/16/93	13.01	12.97	0.04	13.36
		10/22/93	NM	12.96	NM	NM
·		11/03/93	13.13	13,02	0.11	13.30
MW-4	26.17	12/30/92	11.53			14.64
		02/26/93	11.35			14.82
		03/24/93	11.46			14.71
		04/27/93	11.74			14.43
		05/28/93	11.77			14.40
		06/21/93	11.92			14.25
		07/22/93	11.95			14.22
		08/13/93	12.01			14.16
		09/16/93	12.08			14.09
		10/22/93	12.03			14.14
		11/03/93	12.10	<u> </u>		14.07

4554T023.WK1

Page 1 of 2

GROUNDWATER
TECHNOLOGY, INC.

TABLE 1 SUMMARY OF HISTORICAL MONITORING DATA Former Sears Automotive Center 2633 Telegraph Avenue, Oakland, California

Well No.	Casing Elev	Date	DTW	DTP	PT	Groundwater Elevation
MW-5	26.98	12/30/92	10.50			16.48
		02/26/93	10.12			16.86
		03/24/93	10.31			16.67
		04/27/93	10.75			16.23
<u> </u>		05/28/93	10.80			16.18
		06/21/93	10.94			16.04
		07/22/93	11.01			15.97
}		08/13/93	11.07			15.91
		09/16/93	11.18]	15.80
		10/22/93	11.19			15.79
		11/03/93	11,23			15.75

Elevation in feet above mean sea level

DTW = Depth to water (in feet)

DTP = Depth to product (in feet) PT = Product thickness (in feet)

NM = Not monitored

* = Sheen observed (<0.01 foot)

-- = Product not detected

4554T023.WK1

GROUNDWATER
TECHNOLOGY, INC.

TABLE 2 SUMMARY OF HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS Former Sears Automotive Center 2633 Telegraph Avenue, Oakland, California

Well ID	Date	В	Т	E	х	TPHG	TPH-M	TPH (mg/l)	Dissolved Metals
MW-1	12/30/92	1	1	2	2	_	_	1	
	03/24/93	0.4	1	0.3	10	_	_	i	_
	06/21/93	< 0.3	1	2	6		<100**		_
	09/16/93	< 0.3	0.7	< 0.3	7	-	<100**	- 1	_
MW-2	12/30/92	0.7	< 0.3	< 0.3	3	190		1	^a ND
	03/24/93	0.6	< 0.3	< 0.3	2	120		<1	^a ND
	06/21/93	0.3	< 0.3	< 0.3	0.7	82	<100**		CND
	09/16/93	<0.3	< 0.3	< 0.3	<0.5	28	<100**		CND
MW-3	12/30/92	11	0.9	< 0.3	2	910		20	a ND
	03/24/93	28	0.7	1	8	3,300	_	28	a 15*
	06/21/93	- 21	5	2	19	2,600**	32,000	26	cd ₅
	09/16/93	in _a min n		-	-		-		-
MW-4	12/30/92	2	< 0.3	1	< 0.5	1,200		<1	^a ND
	03/24/93	< 0.3	< 0.3	< 0.3	< 0.5	750	_	2	a7*
	06/21/93	< 0.3	2	< 0.3	0.5	660	19,000		a ND
	09/16/93	0.3	< 0.3	2	3	4 10	2,500		a ND
MW-5	12/30/92	< 0.3	< 0.3	< 0.3	<0.5	37	_	<1	bc 5
	03/24/93	< 0.3	< 0.3	< 0.3	0.5	19	_	2	^c 341
	06/21/93	< 0.3	< 0.3	< 0.3	< 0.5	<10	< 100	_	¢ND
	09/16/93	0.3	< 0.3	<0.3	1	<10	<100	_	° ND

Results in micrograms per liter [µg/I] except where noted otherwise.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes (EPA Methods 5030, 8020)

TPH-G = Total petroleum hydrocarbons-as-gasoline (EPA Methods 5030 and modified EPA Method 8015)

TPH-M = Total petroleum hydrocarbons-as-motor oll (modified EPA Method 8015)

TPH = Total petroleum hydrocarbons (EPA Method 418.1 [SM 5520 FC])

mg/l = Milligrams per liter

- = Not analyzed

ND = Nondetectable (detection limits for each compound are listed in laboratory reports, included in Appendix D)

* = Water samples were not filtered, analytical results represent total metals present, not dissolved concentrations.

** = Uncategorized hydrocarbon compound not included in this hydrocarbon concentration.

a = Dissolved lead

Dissolved lead only analyte detected

Dissolved lead, cadmium, total chromium, nickel, and zinc.

Cadmium only analyte detected.

GROUNDWATER
TECHNOLOGY, INC.

Well Purge Data

4554R023.020



Project		RS/TELEGRAPH	ł AVE.		Date: 9-16	993
Job Nu		03392.6104			Page /	_ of <u>-</u>
Site Add	dress: <u>2533</u>	Telegraph Ave.	., Oakland, Ca	alif.	Project Manager:	Mike Wray
Well ID	MW	·5	_	DTW Measurement Initial = \\\(\frac{1}{\chi}\) ft Recharge ft	Calc Well Vo	
	Method Peristaltic Gear Drive Submersible		ft Hand Bailed Air Lift Other		Instruments YSI 3650 pH/ C/mmbo HYDAC pH/ F/umbo OMEGA pH/ C	OMEGA Cond.
(CAlibrater	PH MUTER	-to4+	1 buffer Soluti	on Q12-30pm	^.
	TIME	C F	рН	Conductivity	PURGE VOLUME	COMMENTS
	12:40	83,5	(0.68	.72	2	RROWN SILTY
	12:91	7(e.7	(3.71 THUY	,65	4	
	12:42	761	6.82	.64	6	
	12:43	760	6.78	,62	8	
	15:44	7(e.)	(63)	× 63	10	300
		·				
,						
		4				

Project Name: Job Number:	SEARS/TELEGRAF	PH AVE.	Date:	9-1	6-93 of	4	
Site Address:	2533 Telegraph Av	e., Oakland, Calif.		Manager:	Mike Wray	,	
Well ID	MW-1 2"	DTW I Initial Recha	Measurements = 12.06 ft urgeft	Calc Well Volun		4-6	gal gal
Purge Method Peristalt Gear Dr Submer	ive	ft Hand Bailed Air Lift Other	HYDAC	Instrument 50 pH/ C/mml 5 pH/ F/umbo A pH/ C	bo	OMEGA Cond. DRT-15C TUR	

-4

TIME	TEMP C F	рН	Conductivity	PURGE VOLUME	COMMENTS
12:55	73.8	6.88	.68	0	Bran, SILTY
12:56	74.9	6007	,69	2	
12:57	75.5	6,67	170	4	
P .	751		, 73	9	

•						
Project Name:	SEARS/TELEGRAP	H AVE.	Date:	9.	-16-9	<u>3</u>
Job Number:	020503392.6104		Page	3.	of	4
Site Address:	2533 Telegraph Ave	., Oakland, Calif.	Project	Manager:	Mike Wra	у
	, i'					***
Well ID	MW-2	Initia	/ Measurements	Calc Well \		gal
				14/a 1/a		· ///
Well Dia	2"	— Hecr	harge <u>f</u> t	Well Volun	ne = χ	4 B gal

TIME	TEMP C V F	рН	Conductivity	PURGE VOLUME	COMMENTS
1:25	7,50	683	.61	0	PROWN SILTY
1-26	73.2	(0.68)	,58	2	
1:27	723	6.70	56	4	
1.28	7117	6.70	,58	G	
Ng.					
·					
				-	

Project Name: Job Number: Site Address:	SEARS/TELEGRAF 020503392 , 6104 2533 Telegraph Av		Date: Page Project	4 Hanager:	16-93 of Mike Wray	4
Well ID	MW-4 2"	Initial =	easurements = <u>いめ ft</u> ge <u>ft</u>	Calc Well Well Volur	Volume = me = X (gal
Purge Method Peristal Gear Dr	rive	ft Hand Bailed Air Lift Other	HYDAC	Instrumen 50 pH/ C/mm C pH/ F/umbo A pH/ C	nbo	OMEGA Cond. DRT-15C TURBID Other

TIME	TEMP C Y F	рН	Conductivity	PURGE VOLUME	COMMENTS
1.45	727	6.62	,65	0	-
1:46	72,2	6.59	.63	2	Brain/Ceny SILTY, Slight ador
1:47	725	66	162	4	
1548	72.7	(060)	.64		
1:45	72.3	6,59	(63	8	

Laboratory Reports and Chain-of-Custody Record



4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX Client Number: 020204554 Project ID: Oakland Work Order Number: C3-09-0382

October 12, 1993

Mike Wray Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 09/17/93, under chain of custody record 29755.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Tollen J. Bullen

Eileen F. Bullen

Laboratory Director

Client Number: 020204554 Project ID: Oakland Work Order Number: C3-09-0382 Date Reissued: 11-11-1993

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		02	03	04	05					
Client Identification		MW1	MW5	MW2	MW4					
Date Sampled		09/16/93	09/16/93	09/16/93	09/16/93					
Date Analyzed		09/30/93	09/30/93	09/30/93	09/30/93					
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L						
Benzene	0.3	<0.3	0.3	<0.3	0.3					
Toluene	0.3	0.7	<0.3	<0.3	<0.3					
Ethylbenzene	0.3	0.3	<0.3	<0.3	<0.3	2				
Xylene, total	0.5	7	1	<0.5	3					
BTEX, total	-	8	1		5					
TPH as Gasoline	10	NA	<10	28	410					
Detection Limit Multiplier		1	1	1	1					
BFB surrogate, % recovery		99.6	96.5	95.7	113					

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.
 NA = Not Applicable.



Client Number: 020204554
Project ID: Oakland
Work Order Number: C3-09-0382
Date Reissued: 11-11-1993

Table 1(continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		06	093093S	
Client Identification		DUP	METHOD BLANK	
Date Sampled		09/16/93		
Date Analyzed		09/30/93	09/30/93	
Analyte	Detection Limit, ug/L		ation, ug/L	
Benzene	0.3	< 0.3	<0.3	
Toluene	0.3	0.5	<0.3	
Ethylbenzene	0.3	<0.3	<0.3	
Xylene, total	0.5	<0.5	<0.5	
BTEX, total	-	0.5		
TPH as Gasoline	soline 10		<10	
Detection Limit Multiplier	-	1	1	
BFB surrogate, % recovery		120	118	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as
gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.



Client Number: 020204554 Project ID: Oakland Work Order Number: C3-09-0382

ANALYTICAL RESULTS

TPH as Motor Oil in Water

Method: GC-FIDa

GTEL Sample Number		02	03	04	05				
Client Identification		MW1	MW5	MW2	MW4				
Date Sampled		09/16/93	09/16/93	09/16/93	09/16/93				
Date Extracted		09/28/93	09/28/93	09/28/93	09/28/93				
Date Analyzed		10/09/93	9/93 10/09/93 10/09/93 10/09						
Analyte	Detection Limit, ug/L								
Motor Oil	100	<100 ^b	<100	<100 ^b	2500				
Detection Limit Multiplier		1	1	1	1				
OTP surrogate, % recovery		137	146	131	179 ^C				

GTEL Sample Number		100493 MO-1			
Client Identification		METHOD BLANK			
Date Sampled					
Date Extracted		09/28/93			
Date Analyzed		10/09/93			
Analyte	Detection Limit, ug/L		Concentrati	on, ug/L	
Motor Oil	100	<100			
Detection Limit Multiplier		1			
OTP surrogate, % recovery		146			

a. O-Terphenyl surrogate recovery acceptability limits are 50-150%. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986.
b. High concentrations of hydrocarbons. Not indicative of motor oil.
c. Surrogate recovery high due to high concentration of non target compounds.



Client Number: 020204554 Project ID: Oakland Work Order Number: C3-09-0382

Table 1

ANALYTICAL RESULTS

Metals in Waterd

GTEL Sample Number		03	04	05	092093 MET					
Client Identification		MW5	MW2	MW4	METHOD BLANK					
Date Sampled		09/16/93	09/16/93	09/16/93	,					
Date Prepared (Method 3005 ^a)	1	09/20/93	09/20/93	09/20/93	09/20/93					
Date Analyzed (Method 6010)		09/22/93	09/22/93	09/22/93	09/22/93					
Date Analyzed (Method 7060,	7421, 7740, 784	09/27/93	09/27/93 09/27/93 09/27/93 0							
Analyte	EPA Methoda	Detection Limit, ug/L	Concentration, ug/L							
Cadmium	EPA 6010 ^b	5	<5	<5	NR	<5				
Chromium, total	EPA 6010 ^b	10	<10	<10	NR	<10				
Lead	EPA 7421°	5	<5	<5	<5	<5				
Nickel	EPA 6010 ^b	20	<20	<20	NR	<20				
Zinc	EPA 6010b	20	<20	<20	NR	<20				
Detection Limit Multiplier		1	1	1	1					



a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. NR = Not Requested. Inductively Coupled Argon Plasma(ICP)
 c. Graphite Furnace Atomic Absorption (GFAA)
 d. Unpreserved sample was passed through a 0.45 micron filter and analyzed as a dissolved metal. Sample was lab filtered 09/17/93.
 NR = Not Requested

GTEL	- /610) 605 7952							1	INE	VIV-) Al	VAL	YS.	IS REQUEST							29	75											
ENVIRONMENTAL	(800	(800) 423-7143											,		٠.		50	ii į.	$k(t_0)$	(i)	ile.	.*	·				vi S.		4.17	_	·	
Company Name:	Phone #:												$ \cdot $			1			F							1	2/2	1				
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