RO480



# ALCO HAZMAT

94 MAR - 7 PH 2: 21

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

35-9148

		,				
						FAX: (415)
	neda County Healt	•	Date: 3	3/02/94	Job No. 020204554	
	80 Swan Way, Room 200 Oakland, CA 94621				Roebuck and Co. Site elegraph Ave., Oakland	
Attn: Mr. Thomas Peacock From: Mike Wray My						
We are send	ing: X A	ttached Vi	a			
The following	g:					
_2 Report(	s) Originals	Shop Drawings	Sa	mples		
Specific	ations Cop	y(s) Proposal	Oth	er		
COPIES	DATE		DE	SCRIPT	ION	
1	1/28/94	Additional Soil and Gro	oundwate	er Asses	sment Report	
1	3/01/94	Quarterly Monitoring a	nd Samp	oling Rep	oort	
Transmitted	as checked:					
Approve	ed For App	roval Approved a	s Noted		For Correction	
		Requested For Co		_		
		For Distribution O				
		C				
Comments:	Tom: Bernadine P	alka of Sears, Roebuck	and Co.	asked n	ne to forward the enclose	d
reports to yo	ou. If you have an	y questions, please contr	act me a	<u>ıt (510)-6</u>	671-2387. Thank you, Mil	<u>ke Wray</u>
cc: Rich	ard Hiett, Regional	Water Quality Control B	oard			

C:\wp51\files\mikew\sears\transm.frm

Bernadine Palka, Sears, Roebuck and Co.



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

March 1, 1994

FAX: (415) 685-9148

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 November 1993 through January 1994

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 November 1993 through January 1994. This 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.

The monitoring and sampling schedule includes monthly well monitoring and quarterly sampling and reporting. Three new monitoring wells were installed on the site in December 1993 as part of the additional site assessment. The results of that site assessment were reported in Additional Soil and Groundwater Assessment Report dated January 28, 1994.

#### SUMMARY OF WORK COMPLETED

#### Monitoring Well Gauging

On November 24 and December 1, 1993, the depth to groundwater was measured in monitoring wells MW-1 through MW-5. On December 27, 1993, and January 5, 1994, the depth to groundwater was measured in the same five wells and three monitoring wells (MW-6, MW-7, and MW-8) that were installed on December 14, 1993. Groundwater monitoring data are presented in Attachment 2,

45548024.202 Cheek on SOJ grotan notion Prost may renoun

Table 1. The wells were monitored during each event using an INTERFACE PROBE™ Well Monitoring System, which can detect both water and separate-phase product levels.

Groundwater monitoring data from November and December 1993 and January 1994 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 0.01 foot per foot (ft/ft) to the south on November 24 and December 27, 1993, and January 5, 1994.

#### Monitoring Well Sampling and Results

On December 1, 1993, groundwater samples were collected from monitoring wells MW-1, MW-2, MW-4, and MW-5 and analyzed for hydrocarbon constituents. The groundwater samples from monitoring wells MW-2 and MW-5 were also analyzed for dissolved metals. The groundwater sample collected from MW-4 was analyzed for dissolved lead. On December 27, 1993, groundwater samples were collected from the three monitoring wells installed on December 14, 1993, and analyzed for hydrocarbon constituents and dissolved lead. Because of a laboratory scheduling error, monitoring wells MW-1, MW-2, and MW-5 were resampled on December 30, 1993, and analyzed for total petroleum hydrocarbons-as-motor oil (TPH-M) analysis. Well MW-3 was not sampled this quarter because of the presence of separate-phase hydrocarbons 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 wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8 were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) Methods 5030/8020 and TPH-M using a gas chromatograph flame-ionization detector (GC-FID) hydrocarbon scan method of detection.
- Groundwater samples from wells MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8 were analyzed for total petroleum hydrocarbons-as-gasoline (TPH-G) using modified EPA Method 8015.
- Groundwater samples from wells MW-6, MW-7, and MW-8 were analyzed for total petroleum hydrocarbons (TPH) in water using EPA Method 418.1.

GROUNDWATER
TECHNOLOGY, INC.

Groundwater samples collected from wells MW-4, MW-6, MW-7, and MW-8 were analyzed for dissolved lead using EPA Method 7421; and samples collected from wells MW-2 and MW-5 were analyzed for cadmium, chromlum, nickel, and zinc using EPA Method 6010 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 collected in December 1993 from wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8 as follows: benzene from nondetectable to 0.4 micrograms per liter ( $\mu$ g/l); toluene from nondetectable to 4  $\mu$ g/l; ethylbenzene from nondetectable to 2  $\mu$ g/l; and xylenes from nondetectable to 7  $\mu$ g/l. The results of BTEX analyses are summarized in Table 2.

Total Petroleum Hydrocarbons. Total petroleum hydrocarbon-as-gasoline concentrations of  $68 \mu g/l$ ,  $150 \mu g/l$ ,  $17 \mu g/l$ ,  $140 \mu g/l$ , and  $390 \mu g/l$  were detected in samples collected in December 1993 from wells MW-2, MW-4, MW-5, MW-7, and MW-8, respectively. No detectable concentrations of TPH-G were present in the sample collected from well MW-6. The analytical results of groundwater samples collected from wells MW-1, MW-5, MW-6, MW-7, and MW-8 reported no detectable concentrations of TPH-M. The samples from MW-2 and MW-4 showed the presence of TPH-M concentrations of 310  $\mu$ g/l and 390  $\mu$ g/l, respectively. The results of TPH-G and TPH-M analyses are summarized in Table 2.

<u>Metals</u>. Lead was not detected in the groundwater samples from wells MW-2, MW-4, and MW-5 in December 1993. However, the laboratory did report dissolved lead concentrations of 70  $\mu$ g/l, 40  $\mu$ g/l, and 18  $\mu$ g/l in samples collected from wells MW-6, MW-7, and MW-8, respectively. Cadmlum, chromium, 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 FEBRUARY THROUGH APRIL 1994

Below is the schedule of planned work tasks at the site for February through April 1994:

<u>Date</u> 02/94	Task Monthly well gauging.
03/94	Monthly well gauging and quarterly sampling.
04/94	Monthly well gauging and preparation of Quarterly Monitoring and Sampling Report for February through April 1994.

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

Elleen S. Wray

**Project Geologist** 

Michael J. Wray

n'M Sullivan Professional Engineer

Project Manager

Frank J. Gorry

Vice President, Operations Manager National Industry Division

coundwater Technology, Inc.

wed/Approved by

Attachment 1 **Figures** Attachment 2 **Tables** 

Attachment 3 Well Purge Data

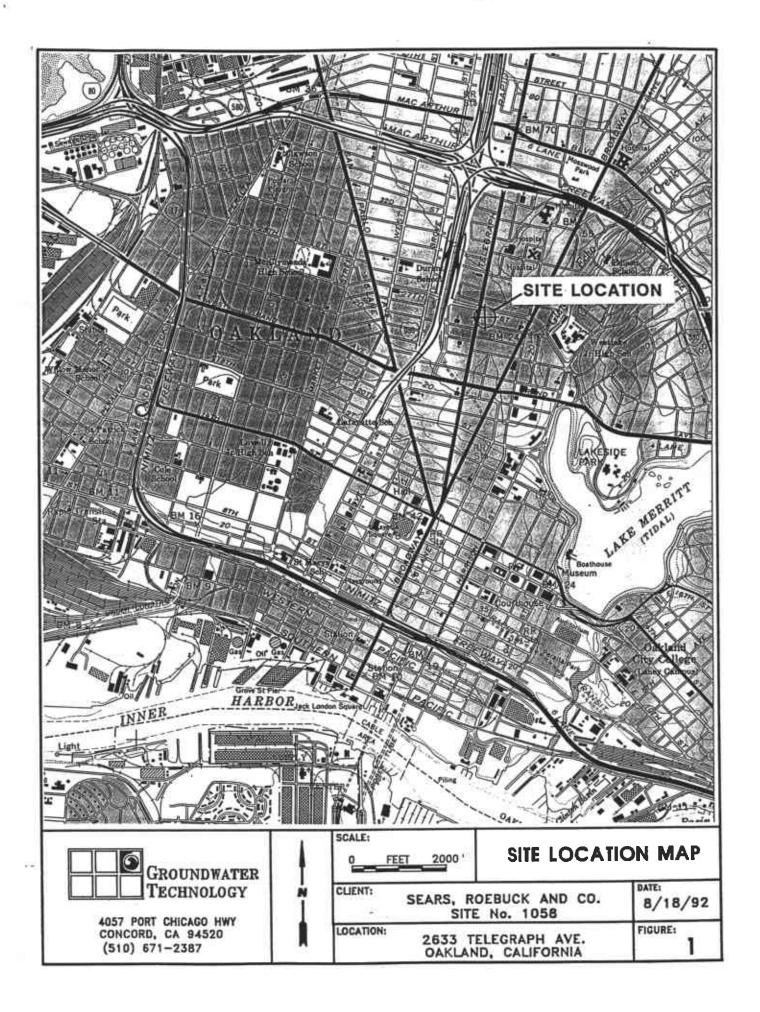
Attachment 4 Laboratory Reports and Chain-of-Custody Record

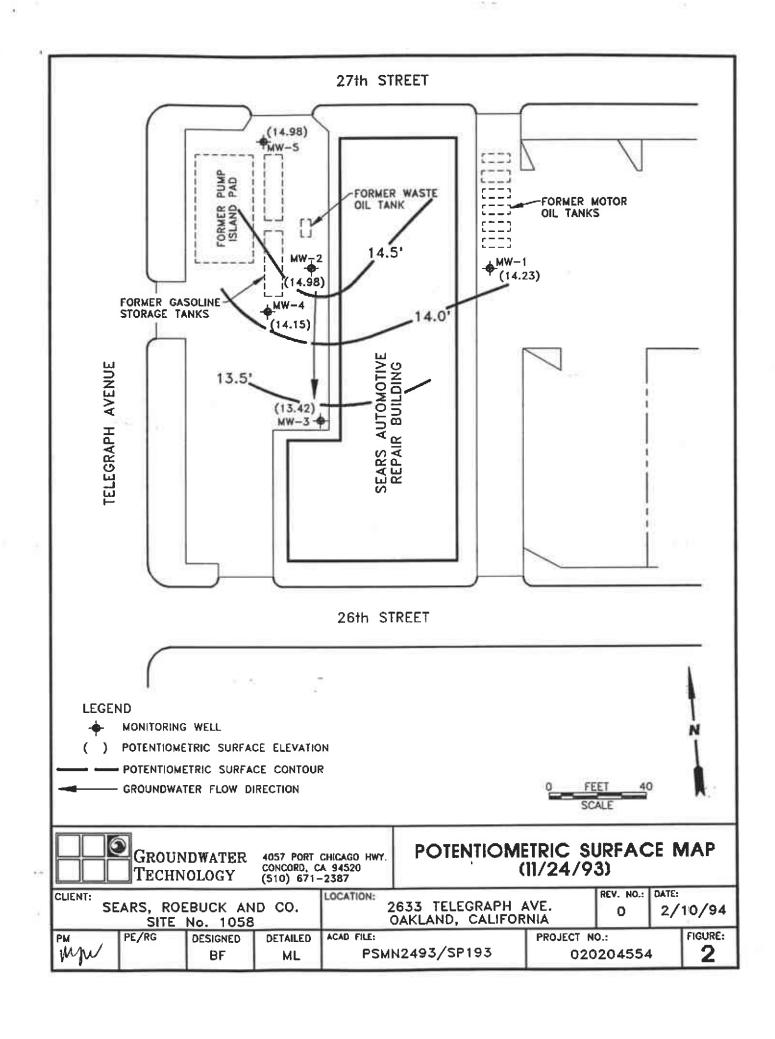
CC: Thomas Peacock, Alameda County Health Services Agency Richard Hiett, Regional Water Quality Control Board

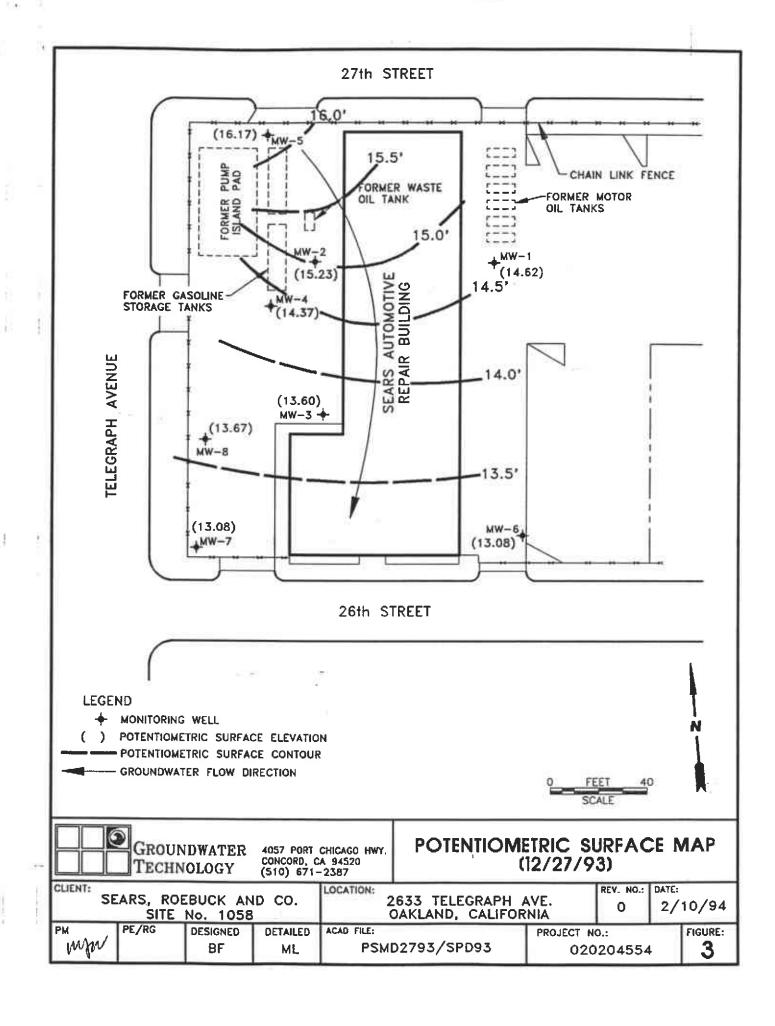
## **ATTACHMENT 1**

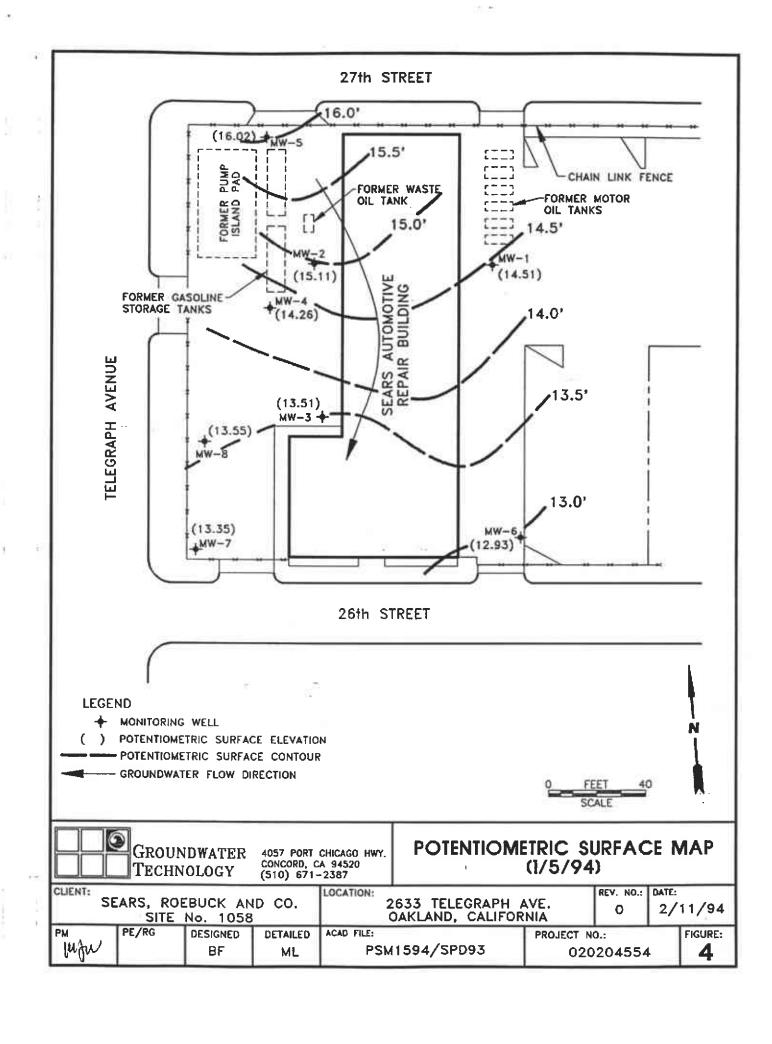
## **Figures**

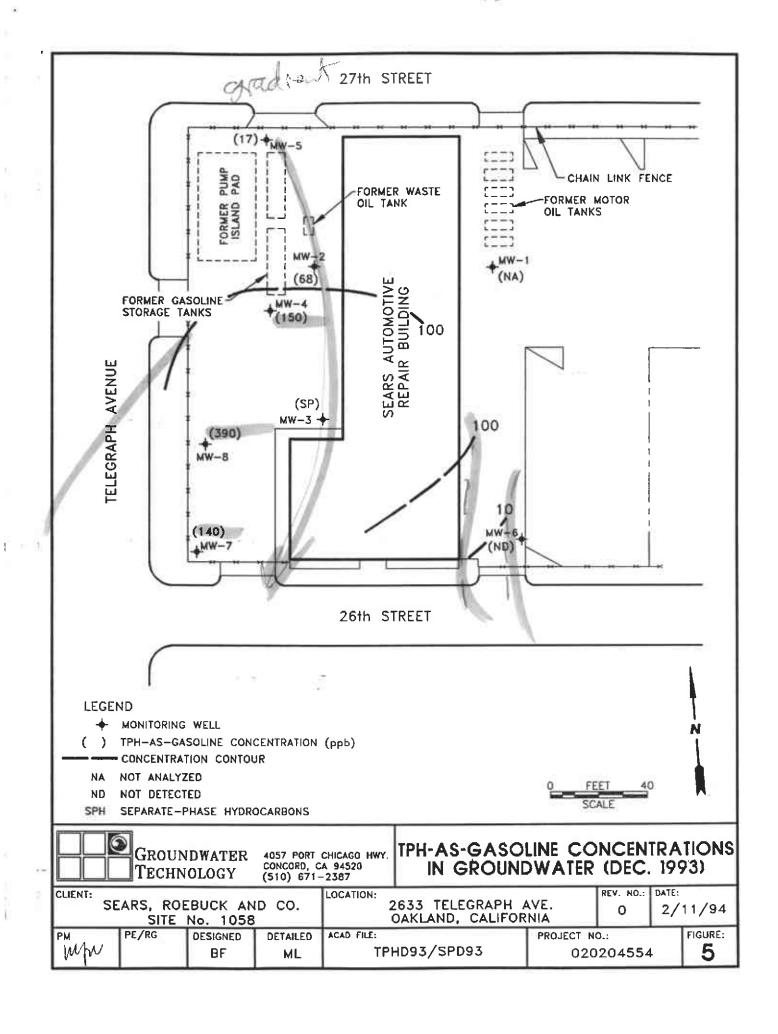
Figure 1	Site Location Map
Figure 2	Potentiometric Surface Map (11/24/93)
Figure 3	Potentiometric Surface Map (12/27/93)
Figure 4	Potentiometric Surface Map (01/05/94)
Figure 5	TPH-as-Gasoline Concentrations in Groundwater (December 1993)
Figure 6	TPH-as-Motor Oil Concentrations in Groundwater (December 1993

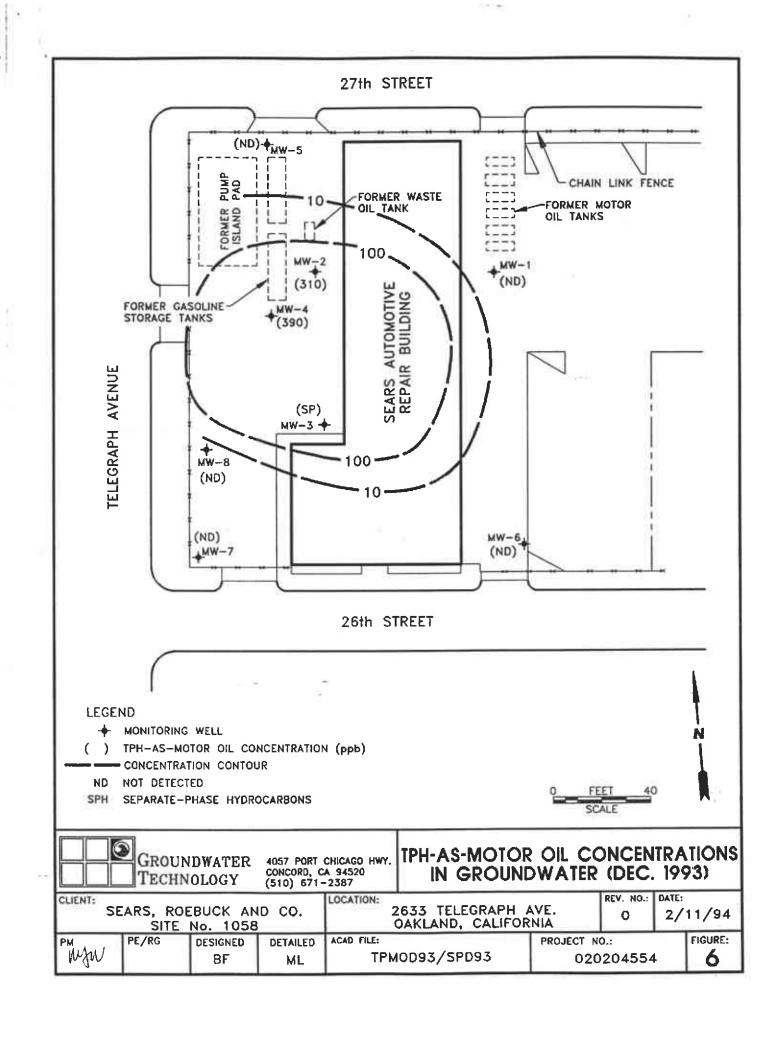












#### **ATTACHMENT 2**

### **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 No.	Casing Elev	Date	DTW	DTP	PT	Groundwater Elevation
MW-1	26.20	12/30/92	10.60			15.60
	1000000	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			14.3
		08/13/93	11.94			14.20
		09/16/93	12.05			14.1
		10/22/93	12.00			14.20
		11/03/93	12.10			14.10
		11/24/93	11.97			14.23
		12/01/93	11.46			14.7
		12/27/93	11.58			14.6
		01/05/94	11.69			14.5
MW-2	26.50	12/30/92	10.65		*	15.8
		02/26/93	10.56			15.9
		03/24/93	10.52			15.9
		04/27/93	11.17			15.3
		05/28/93	11.12			15.3
		06/21/93	11.41	1 1		15.0
	1	07/22/93	11.50			15.0
		08/13/93	11.54			14.9
		09/16/93	11.62			14.8
		10/22/93	11.57			14.9
	1	11/03/93	11.65			14.8
		11/24/93	11.52			14.9
		12/01/93	11.08			15.4
		12/27/93	11.27			15.2
		01/05/94	11.39			15.1
MW-3	26.34	12/30/92	12.43		*	13.9
	2.8	02/26/93	12.21			14.1
		03/24/93	12.36			13.9
		04/27/93	12.70			13.6
	h h	05/28/93	12.72			13.6
		06/21/93	12.87			13.4
		07/22/93	12.92			13.4
(*)		08/13/93	12.96			13.3
		09/16/93	13.01	12.97	0.04	13.3
		10/22/93	NM	12.96	NM	NI
		11/03/93	13.13	13.02	0.11	13.3
		11/24/93	12.94	12.92	0.02	13.4
		12/01/93	12.71	12.69	0.02	13.6
		12/27/93	12.77	12.73	0.04	13.6
		01/05/94	12.85	12.83	0.02	13.5

Page 1 of 2

## 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-4	26.17	12/30/92	11.53			14.64
		02/26/93	11.35			14.82
		03/24/93	11.46			14.7
		04/27/93	11.74			14.45
		05/28/93	11.77			14.40
		06/21/93	11.92			14.29
		07/22/93	11.95			14.2
		08/13/93	12.01		1	14.10
		09/16/93	12.08			14.09
		10/22/93	12.03			14.14
	1	11/03/93	12.10			14.0
	1	11/24/93	12.02			14.1
		12/01/93	11.78			14.3
		12/27/93	11.80			14.3
		01/05/94	11.91			14.2
MW-5	26.98	12/30/92	10.50			16.4
		02/26/93	10.12			16.8
		03/24/93	10.31			16.6
	1 1	04/27/93	10.75			16.2
		05/28/93	10.80			16.1
		06/21/93	10.94			16.0
	1	07/22/93	11.01			15.9
		08/13/93	11.07			15.9
		09/16/93	11.18			15.8
		10/22/93	11.19			15.79
		11/03/93	11.23			15.7
		11/24/93	12.00			14.9
		12/01/93	10.84		[	16.1
		12/27/93	10.81			16.1
		01/05/94	10.96			16.0
MW-6	24.32	12/27/93	11.24			13.0
		01/05/94	11.39			12.9
MW-7	24.88	12/27/93	11.80			13.0
		01/05/94	11.53			13.3
MW-8	26.12	12/27/93	12.45			13.6
		01/05/94	12.57			13.5

## Elevation in feet above mean sea level

DTW = Depth to water (in feet)

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

PT

Not monitored NM

Sheen observed (<0.01 foot) =

Product not detected

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

Well ID	Date	В	т	E	x	TPH-G	TPH-M	TPH (mg/l)	Dissolved Metals
MW-1	12/30/92	1	1	2	2	- 1	- 1	1	-
600	03/24/93	0.4	1	0.3	10	-		1	-
n In	06/21/93	< 0.3	1	2	6		**<100	-	_
~ 1	09/16/93	< 0.3	0.7	< 0.3	7		**<100	-	-
0 10	12/01/93	0.4	1	2	7	-	- 1	- 1	-
O Loto	12/30/93	-	-		-	-	< 100	-	
MW-2	12/30/92	0.7	< 0.3	< 0.3	3	190	-	1	<sup>a</sup> ND
wist.	03/24/93	0.6	< 0.3	< 0.3	2	120	- 1	<1	<sup>a</sup> ND
Worth	06/21/93	0.3	< 0.3	< 0.3	0.7	82	**<100	-	<sup>c</sup> ND
200	09/16/93	< 0.3	< 0.3	< 0.3	< 0.5	28	**<100		° ND
July	12/01/93	< 0.3	<0.3	< 0.3	1	68	ACCUSED TO US		c ND
3	12/30/93	-		-			310		
MW-3	12/30/92	110	0.9	< 0.3	2	910	-	20	<sup>a</sup> ND
104 X	03/24/93	28	0.7	1	8	3,300		28	<sup>#</sup> 15
1000 1500	06/21/93	21	5	2	19	**2,600	32,000	26	<sup>cd</sup> 5
gradiant	09/16/93	OF THE REAL PROPERTY.	F 100	D =11		-	-		1
<u>u</u>	12/01/93	40000	-	-	-	17 (52-5)	-		-
MW-4	12/30/92	2	< 0.3	1	< 0.5	1,200	-	<1	<sup>a</sup> ND
similar	03/24/93	< 0.3	<0.3	< 0.3	< 0.5	750		2	* <sup>2</sup> 7
5, 3/3/100	06/21/93	< 0.3	2	< 0.3	0.5	660	19,000	-	<sup>a</sup> ND
JELYLO	09/16/93	0.3	<0.3	2	3	410	2,500	-	<sup>a</sup> ND
Ocha.	12/01/93	<0.3	<0.3	<0.3	< 0.5	150	390	-	<sup>a</sup> ND
MW-5	12/30/92	< 0.3	< 0.3	< 0.3	<0.5	37		<1	bc 5
della	03/24/93	< 0.3	< 0.3	< 0.3	0.5	19	- 1	2	<b>⁴</b> 341
DIMOLE	06/21/93	< 0.3	< 0.3	< 0.3	< 0.5	<10	<100	- 1	°ND
w/1	09/16/93	0.3	< 0.3	< 0.3	1	<10	< 100	=	CND
/	12/01/93	< 0.3	< 0.3	< 0.3	1	17	-	-	<sup>c</sup> ND
	12/30/93	-					< 100	-	
MW-6	12/27/93	<0.3	<0.3	< 0.3	< 0.5	<10	<100	<1	<sup>a</sup> 70
MW-7	12/27/93	<0.3	<0.3	1	2	140	<100	<1	<sup>a</sup> 40
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	<sup>a</sup> 18

dom SE dom Stot

Results in micrograms per liter [µg/l] 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 oil (modified EPA Method 8015)

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

mg/I = 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

b = Dissolved lead only analyte detected

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

Cadmium only analyte detected.

**ATTACHMENT 3** 

Well Purge Data

'roject Name: lob Number: lite Address:	SEARS/TELEGRAP 20 455 4. 06100 020503692. 6104 2533 Telegraph Ave	0.2	Date: Page Project	12/ <sub>1</sub> Manager:	of Mike Wray	5
Vell ID	MW-5	_ Initial :	leasurements = 10,84n ge 11,10ft	Calc Well Well Volum		) o gal
Purge Method Peristalt Gear Dr Submer	tve	ft Hand Balled Air Lift Other	YSI 365 HYDAO OMEGA		bo	OMEGA Cond. DRT-15C TURBID Other

TIME	TEMP C F	рН	Conductivity  M	PURGE VOLUME	COMMENTS
	20.3	7,59	8,98	)	
	20.3	7,60	8.32	4	
	20.2	7.61	6,58	7	
	20.2	7.61	6.32	[0	
		<u>. 1</u>			
		,			
			·	<b>₽</b>	
					·

Project Name: Job Number:	SEARS/TELEGRAP 20 454 0610 020503392 0104		Date		/ 93 of	5
Site Address:	2533 Telegraph Ave	., Oakland, Calif.	Proj	ect Manager:	Mike Wra	у
			<del>.</del>		· · · · · ·	to the state of the state of
Well ID	MW-₽ 1_ 2*	_ Init	W Measurements al = <u>リソめれ</u> charge <u>f</u>	Calc Well Volun		gal gal
Purge Method Peristalt Gear Dri Submer	ive	ft _Hand Bailed _Air Lift Other	HYD OME	Instrument 3650 pH/ C/mm AC pH/ F/umbo EGA pH/ C	00	OMEGA Cond. DRT-15C TURBID Other

TIME	TEMP X C F	рН	Conductivity	PURGE VOLUME	COMMENTS
	70.7	7.27	8,90 ms		
	20.5	7.20	6.83		
	20.4	7,14	7.43		
	20.4	7.14	6.93		· · · · · · · · · · · · · · · · · · ·
		i (			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	
					_

<sup>3</sup> roject Name:	SEARS/TELEGRAPI		Date:	12/1	/ 93	
lob Number:	020503392 . 6104		_ Page	3	of	5
Site Address:	2533 Telegraph Ave	., Oakland, Calif.	Project	Manager:	Mike Wra	у
Vell ID	MW-8 2-	DTW Mo Initial =	easurements	Calc Well	Volume =	gal
Vell Dia	2*	Recharg -	je <u>f</u> t	Well Volu	me =	gal
Purge Method Peristal Gear Di Submei	tve	ft Hand Balled Air Lift Other	HYDAC OMEG	Instrumen 50 pH/ C/mm 5 pH/ F/umbo A pH/ C	1bo	_OMEGA Cond. _DRT15C TURBID _Other

TIME	TEMP C F	рН	Conductivity	PURGE VOLUME	COMMENTS
	20.6	7.30	6.41	1	
	204	7,26	6.40	2.	
	20.(	7.22	6.38	2-}	
	20.0	7.22	6.38	6	
		. <del>-</del>			
		·			
		•			<u> </u>

lob Number: 020 <del>50</del>	S/TELEGRAPH 14554 06 100 3392 . 6104 elegraph Ave.,	2	<u> </u>	Date: $\frac{(2/)}{4}$ Page Project Manager:	/ 4 3 of Mike Wray
Vell ID         MW-4           Vell Dia         2"			DTW Measurement Initial = <u>II.7 <sup>1</sup>6 ft</u> Recharge <u>ft</u>	s Calc Well \ Well Volum	uai
Purge Method Peristaltic Gear Drive Submersible		ft Hand Bailed Air Lift Other		Instrument YSI 3650 pH/ C/mml HYDAC pH/ F/umbo OMEGA pH/ C	OMEGA Cond.
TIME	TEMP C F	Нq	Conductivity	PURGE VOLUME	COMMENTS

TIME	TEMP C F	Нq	Conductivity	PURGE VOLUME	COMMENTS
	22.2	7.22	6.27		
	22.2	7.15	6.49	Z	
	220	707	6.73	5	
	22.0	7.06	6.73	7	
· ·					
				·	
				•	
:					

					1		
³roject Nar	ne: <u>SEAR</u>	S/TELEGRAPH	I AVE.		Date: \ \ \( \lambda \int \)	1/93	
lob Numbe	er <u>02056</u>	3302 6104		<del></del>	Page	_ of5	
3ite Addres	ss: <u>2533</u>	Telegraph Ave.	, Oakland, C	alif.	Project Manager:	Mike Wray	 :
						<del></del>	
Vell ID	MW-4	3	_	DTW Measurement Initial = (1.7.1ft Recharge ft	Calc Well		gal gal
Ge	hod istaltic ar Drive omersible		ft Hand Balled Air Lift Other		Instrumen YSI 3650 pH/ C/mm HYDAC pH/ F/umbo OMEGA pH/ C C:OY N:10/6	bo OMEGA Cor	nd. URBID
	TIME	TEMP C F	рН	Conductivity	PURGE VOLUME	COMMENTS	· · · ·
		PRO	duc	t F	ound		
						•	:
			. "	-			

roject Number 020204554 - 6105	Date: 12-27-93 Page / of /		
Site Address: 2633 Telegraph Aue Oakland CA	Project Manager: Mike Wray		
Well ID 7700 7 MW-8 12.4 Initial 1	Issurements  4.71  Calc Well Volume = 5.23 gal  4.74  Gal Volume = 1.74  9.66  1.57  Instruments Used  YSI 3650 pH/ C/mmbo OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other		

<del></del>	7CMD		<u> </u>	<del>,</del>		GPM - Bai
TIME <sub>.</sub>	TEMP V C F	Conductivity	рН	PURGE VOLUME gallons	TURBIDITY	COMMENTS
1120	19.5	.74/	6.48	2.0	. N/A	LIGH+ Brown
1123	\$21.Z	761	6.50	4.0	NIA	LIGH+ Brown
1127	21.5	.761	6.48	5.5	NIA	LIGH+Brown
	;		~			
			~	٠		
					٠	
						Sampled@ 11 43
·				<u> </u>		

roject Name: Sears Telegraph Project Number: 020204554 - 6105	
Site Address: 2633 Telegraph Aue	
Well ID MW6  Well Dia 2.0  Purged Method Pump Depth With Peristaltic Hand Bailed Air Lift  Gear Drive Air Lift  Other	DTW Measurements  Initial 11.24ft Calc Well Volume = 6.88 gal  Recha 11, 33 ft Well Volume = 1.72 gal  DTS 21.80  10.56 x.163  Instruments Used  YSI 3650 pH/ C/mmbo OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other

TIME	TEMP C F	Conductivity	рН	PURGE VOLUME gallons	TURBIDITY	COMMENTS	
1312	19.9	505	6,55	2.0	NIA	LIGHT Brown Invest &	<i>(</i>
1315	19.3	·576	6.54	4,0	N/A	LIGHT Brown In	
1318	19.7	.555	6.46	6.0	N/A	Libit Brown / m dd	
1355	19.5	. 550	6.49	7.0		6. 1112 Brown mild	
	•	*	-	•			7
				·			
						Sampled @ 1325	
	,				,		

Project Name: Sears Telegraph  Project Number: 020204559 - 6105  Site Address: 2633 Telegraph Ave Oakland Ca	Page / of / Project Manager: Mike Wray
Well Die 7 " Rec	W Measurements  al \frac{7.45ft}{2.45ft} Calc Well Volume = \frac{4.65 gal}{1.65 gal}  ha \frac{10.16}{2.45ft} Well Volume = \frac{1.65 gal}{1.65 gal}  \text{VSI 3650 pH/ C/mmbo} OMEGA Cond.  HYDAC pH/ F/umbo DRT-15C TURBID  OMEGA pH/ C Other

TIME	TEMP C F	Conductivity	рΗ	PURGE VOLUME gallons	TURBIDITY	COMMENTS
1212	21.0	.574	6.81	2.0	N/A	LIGHT Brown/muddy
1218	21.1	. 556	6.66	4.0	N/A	LibH+ Brown middy
1225	20, 3	.546	6.67	5.5	N/A	L. bH+ Bown midd
1228	: 21.7	546	6.61	6.9	N/A	Libitt Brown midt
	•		-	÷		<u> </u>
					•	Sampled 0:1233

Project Name: Site Address:		S TELEGRA TELEGRAPI			ate: 12	
Project Numbe	er: 02.02	04554		Pr	oject Manager:	M. WRAY
Well ID: Well Diameter:	MW-2 2"			V Measuremer al: harge:		Volume: gal ime: 4 gal
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lif	Depth_ Bailed t	<del></del>	Hydac:	nts Used	_ Other:
Time	Temp C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
9!10	Temp.	.59	633	Ø		Clear
9:13	Broken	.59	Le:44	3		Clary sheen
9:14		,58	(0.47	4		14

4

U

6.47

646

,58

.58

9:15

Project Name:	SEAR	S TELLGRA	<del></del>	Da	nte: 12	30 93
Site Address:		TEREGRAPI			<del></del>	of
Project Numbe	er: <u>020</u> 2	•			oject Manager:	M. WRAY
	MW-S			V Measuremer		
Well Diameter	:2"		Initia Rec	al: harge:	Calc Well Well Volu	Volume:gal  me: <mark>姐 【O g</mark> al
Gear Drive	d Pump Hand Air Lif Other	t		Hydac:	its Used	
Time	Temp C	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
8:46	Tomp Polse	.le7	7.22	Ø		cloar
8:42	Broken	.65	7.21	<b>6</b> 4		Clarky
8:44		.103	123	8		[1]
8:45		.43	7.22	10		ν
		/				
	V		<u>-</u>			

•			· -
Project Name:	SEXIS TELEGRAPH		Date: 12/30/93
Site Address:	2633 TEZEGRAPH	DAKLAND	Pageof
Project Number:	020204554		Project Manager: M. W.R.A.Y
Well ID:	MW-I	DTW Measi	urements:
Well Diameter:	2"	Initial: Recharge:	Calc Well Volume: gal Well Volume: 4 gal
Purge Method Peristaltic Gear Drive Submersible	Pump Depth Hand Bailed Air Lift Other	YSI: Hyd	oruments Used Other:
Time	Temp C Conductivity	Pur	ge .

Time	Temp C	Conductivity	. pH	Purge Volume Gallons	Turbidity	Comments
855 855 855 855	Temp Probe Broken	.7a	7.32	Ø		Cloar
<u> </u>	Broken	.68	7.32	<b>4</b> 3		N
<b>6</b> :9:00		.68	7.21	· 6		L1
9:02		.68	7.21	7		u
	$\forall$					
			<u>-</u> -			
	: <sup>:</sup>					
					1.	

## **ATTACHMENT 4**

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: 2633 Telegraph Oakland, CA Work Order Number: C3-12-0011

December 8, 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 12/01/93, under chain of custody record 27611.

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.

INORGANO

Sincerely,

GTEL Environmental Laboratories, Inc.

Rashmi Shah

Laboratory Director

## Table 1 **ANALYTICAL RESULTS**

## Purgeable Aromatics in Water

## EPA Method 8020a

GTEL Sample Number	01	02	03	F120393	
Client Identification		TRIP BLANK	DUP	RBMW-5	METHOD BLANK
Date Sampled	Date Sampled			12/01/93	
Date Analyzed		12/03/93	12/21/93	12/03/93	12/03/93
Analyte Detection Limit, ug/L		Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	< 0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	< 0.5	< 0.5	<0.5
Xylene, total 0.5		<0.5	< 0.5	< 0.5	<0.5
Chlorobenzene 0.5		<0.5	< 0.5	< 0.5	<0.5
1,2-Dichlorobenzene	0.5	< 0.5	<0.5	< 0.5	<0.5
1,3-Dichlorobenzene	0.5	<0.5	< 0.5	<0.5	<0.5
1,4-Dichlorobenzene 0.5		< 0.5	< 0.5	<0.5	<0.5
Detection Limit Multiplier		1	1	1	1
BFB Surrogate, % recovery	102	91.4	98.8	85.4	

a. Federal Register, Vol. 49, October 26, 1984. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. 0, U.S. EPA, November, 1986.



## Table 1

## **ANALYTICAL RESULTS**

## Purgeable Aromatics in Water

## EPA Method 602a

GTEL Sample Number	02	1213P		
Client Identification		MW-3D	METHOD BLANK	- ***
Date Sampled	12/01/93	-		
Date Analyzed	12/14/93	12/13/93		
Detection Analyte Limit, ug/L		Concentration, ug/L		
Benzene	0.5	<0.5	<0.5	
Toluene	0.5	<0.5	<0.5	
Ethylbenzene	0.5	<0.5	<0.5	
Xylene, total	0.5	<0.5	<0.5	
Chlorobenzene	0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	
1,4-Dichlorobenzene 0.5		<0.5	<0.5	
Detection Limit Multiplier		1	1	
BFB surrogate, % recovery		99.8	87.0	

a. Federal Register, Vol. 49, October 26, 1984.



## Table 1

## **ANALYTICAL RESULTS**

## TPH as Motor Oil in Water

Method: GC-FIDa

GTEL Sample Number		01	GCJ 121693		
Client Identification		MW-4	METHOD BLANK	·	
Date Sampled	Date Sampled				
Date Analyzed		12/16/93	12/16/93		
Detection Analyte Limit, ug/L		Concentration, ug/L			
TPH as motor oil 10		390	<10		
Detection Limit Multiplier		1	1		
OTP surrogate, % recovery		76.0	57.6		

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986.





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: 2633 Telegraph Oakland, CA

Work Order Number: C3-12-0161

December 21, 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 12/01/93, under chain of custody record 27611.

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.

Rashmi Shah

**Laboratory Director** 

### 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	01	Q121293		
Client Identification		MW-4	METHOD BLANK	
Date Sampled	12/01/93	1		
Date Analyzed		12/12/93	12/12/93	
Detection Analyte Limit, ug/L		Concentration, ug/L		
Benzene	0.3	<0.3	<0.3	
Toluene ·	0.3	< 0.3	<0.3	
Ethylbenzene	0.3	< 0.3	<0.3	
Xylene, total 0.5		<0.5	<0.5	
TPH as Gasoline 10		150	<10	
Detection Limit Multiplier		1	1	
BFB surrogate, % recovery		104	101	

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: 2633 Telegraph Oakland, CA

Work Order Number: C3-12-0011

### 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	04	05	06	Q120893		
Client Identification		MW-5	MW-1	MW-2	METHOD BLANK	
Date Sampled	Date Sampled			12/01/93		
Date Analyzed	Date Analyzed		12/08/93	12/08/93	12/08/93	
Detection Analyte Limit, ug/L		Concentration, ug/L				
Benzene	0.3	< 0.3	0.4	<0.3	<0.3	
Toluene	0.3	< 0.3	1	<0.3	<0.3	
Ethylbenzene 0.3		< 0.3	2	<0.3	<0.3	
Xylene, total	0.5	1	7	1	<0.5	
TPH as Gasoline	10	17	NR	68	<10	
Detection Limit Multiplier		1	1	1	1	
BFB surrogate, % recovery		112	103	101	101	

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%.
 NR = Not Requested.



## Table 1

## ANALYTICAL RESULTS

## Dissolved Lead in Water by Graphite Furnace AA

## EPA Methods 7421<sup>1</sup>

GTEL Sample Number		012	120193 MET	·	
Client Identification		MW-4	METHOD BLANK	. "	
Date Sampled		12/01/93			
Date Prepared		12/01/93	12/01/93		
Date Analyzed		12/06/93	12/06/93		
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
Lead, total	5	<5	<5		
Detection Limit Multiplier		1	11		

- 1. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, November 1986.
- 2. Unpreserved water sample was passed through a 0.45 micron filter and analyzed as a dissolved metal. Sample was laboratory filtered on 12/01/93.



#### Table 1

## **ANALYTICAL RESULTS**

## Metals in Water

GTEL Sample Number			04	06	120193 MET	
Client Identification			MW-5	MW-2	METHOD BLANK	
Date Sampled			12/01/93	12/01/93		
Date Prepared <sup>d</sup>		12/01/93	12/01/93	12/01/93		
Date Analyzed (Method 6010)		12/06/93	12/06/93	12/06/93		
Date Analyzed (Method 7421)		12/06/93	12/06/93	12/06/93		
- Analyte	EPA Method <sup>a</sup>	Detection Limit, ug/L		Concentra	ition, ug/L	
Cadmium	EPA 6010 <sup>b</sup>	5	<5	<5	<5	
Chromium, total	EPA 6010 <sup>b</sup>	10	<10	<10	<10	
Lead	EPA 7421 <sup>C</sup>	5	<5	<5	<5	
Nickel	EPA 6010 <sup>b</sup>	20	<20	<20	<20	
Zinc	EPA 6010 <sup>b</sup>	20	<20	<20	<20	
Detection Limit Multiplier			1	1	1	

a. b.



Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Inductively Coupled Argon Plasma (ICP) Graphite Furnace Atomic Absorption (GFAA) Unpreserved water sample was passed through a 0.45 micron filter and analyzed as a dissolved metal. Sample was lab filtered on 12/01/93.

GTEL ENVIRONMENTAL LABORATORIES, INC.
---

4080 PIKE LANE, SUITE C CONCORD, CA 94520 (510) 685-7852

CHAIN-OF-CUSTODY HECOHU 2/611

EABORATORIES, INC														溪						AŊ,	ĄŁ		[3]		$\mathbf{n}$	33						<b>X</b>		LA.
Company Name:		Pho	ne #:												120								7.			- 1					1		71.63	TO P.C.
GTI Y		FA	< #:												<u> </u>	밀				1								[]	_			1	10	ı
Company Address:		Site	local	ion: .	26	3	3	ے ٦	160	174	Ph	./		1	핊	8				1			l	İ			زام			0			2	
4057 Port ch	icago concor	dV	nt Pro		0	ØΥ	Jar	77	•	œ,	Á				BTEX/Gas Hydrocarbons PID/FIDX with MTBE - 807	֡֡֞֞֞֞֞֞֞֞֞֞֞֞֞֩֞֞֞֓֓֞֞֞֜֞֞֓֓֡֡֡֡֡֡֡֡֡֡֡		SM 503 []	۸				ŀ	LI I	0		EP TOX Metals D Pesticides D Herbicides D	EPA Metals - Priority Pollutant   TAI   Brest	2	Lead 239.2 C 200.7 C 7420 C 7421 C 6010 C		Reactivity □	\$	N
		Clie	nt Pro	oject	ID: (	#) O'	101	7/3	46	: 5	ч				Š		-	Σ			r	l		<del>"</del>	‡ +		ě i	֓֞֞֞֞֞֞֓֓֓֞֞֞֜֞֞֓֓֓֓֞֞֞֓֓֡֓֡֞֡֓֡֡֡֡֡֡֡֡֡	ادُ	10		Ctivi	41.	ż
Project Manager:	4√	(NA	ME)	Sa	ar	ζ.,		e Ve	44.7	ረ ጉሌር	) } }			Ę	싵	<u> </u>	اه			. [			6	SS	8		품  (	غا≸	וֹנ	15		æ		
I attest that the proper field s	ampling	San	ndiet i	Namı	e (Fu	int):		~   -	-				<u> </u>	with MTBE []	텵		<u> </u>	Oil and Grease 413.1 🗆 413.2 🗆	EDB by 504 \( \text{DBCP} \) by 504 \( \text{D} \)	1	ł		흫	EPA 624/PPL C 8240/TAL C NBS (+ 15) C	á	ł	8		8	2	1 1	Flash Point []	70	اد
procedures were used during of these samples.	the collection 60	~ે ૯	ጎ	M	M	10	W							l -	8	g	影		ž į	22	Ι¤	įχ	g	Σ	₹		: 경 [ C	길를	<b>E</b>	ľ		튛	a	3
or triese samples.		$\top$	1				М	eth	od					<b>8</b> 020	1 <del>g</del>	틹	Hydrocarbon Profile (SIMDIS)	Oil and Grease 413.1 🗆 41.	B	ÇPA 503.1 □ EPA 502.2 □	EPA 801 [] EPA 8010 []	EPA 602 [] EPA 8020 53	EPA 608 □ 8080 □ PCB	器	8		4	5   ≹	CAM Metals TRC STICE	0.7		뜋	MOTOR	4
Field	GTEL	e S		Matı	rix		Pre	1986	ve	d	58	ampi	ling	•	gg.	S G	2	8 [	기음		蓝	E A	8		믜	뚫ㅣ	, 기	֓֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Ę	8	밁	•	3	
Sample	l Lab#	Containers	_	ן	널	_	11		Ş	ے ا				2	ias I	og .	흲	<u> </u>	<u> </u>	3.1	<del> </del>	20	밊	4/PP	탏	밁	<u>a</u>   ₹	1 製	State	92(	2	Ě	٠١	اليــ
ID	(Lab use only)	8		ا ا	PRODU	띩ㅠ	<u>g</u>	OS H	NCE PAUDOEREDVED		<u> </u>	TIME	į .	BTEX/602 €	ង្គ	ğ	ğ		ă œ	8	8	8	8	A 62	8	EPA 610 🗆 8310 🗅	۾ ڇاھ	: ≱ו	3	22 P	Organic Lead 🗆	Corrosivity [	一	100
			≩ %	₹ 6	4 2	티모	δÑ	Ŧ S	ا ا	<b>5</b> 69				10	<u> </u>	£	Ě	<u></u>	: 🖺	<u> </u>	(B)	G	85	8	윱	씂	<u>۵   ۲</u>	<u> </u>	,   ঠ	٦	ğ	<u> වී</u>		۵
Trip blank		1)	X	Ш		X			乂	1_	14	<u> </u>					_	$\perp$	1			<u> </u>							_			$\perp$		]
DUP		1	X			<u></u> 入				_	Ц	_L			Ш			$\perp$		10	/	<b>5</b>						Ш						
RBMW-5																		1				X						<u>'                                    </u>	4					
MW - 5		7	X		Ш	X	Ш		×	<u> </u>	Ц	_ _			X		$\perp$		X	$\bigsqcup_{i}$						,	<b>~</b> 1	1	<u>Ľ</u>		Ш		X.	X.
MW-1	· · · · · · · · · · · · · · · · · · ·	4		Ш		<u>-   ×</u>		$\perp$	<u> </u>	1_	Ц			X				7	V)		13						X	1					X	
MW-2	•	7	X_	Ш.	Ш	×			١×	1_	Ц				×		,		1						.,	1								×
MW- 4	(01 1	7	Х			X	Ш	_\	小	<u> </u>	V	<u>'\</u>			X		_K	$\mathbb{Z}_{\!$	<i>K</i> _	Ш	- 75			;	1		$\sum_{i=1}^{n}$	7 70	1 1910	市	雅	图	<u>k:</u>	
MW-3D C31201	61 7 02	2	X_	<u> </u> .		<u> </u>		X		<u> </u>	12-1			4			1	1	10			X				, 0		$\mathbb{L}$						
	<b>*</b>		Ш	Ш	Ш	$oldsymbol{\perp}$	Ш		$\perp$	L	<u> </u>						$\perp$											$\perp$			, T	Ť		
			Ш	Ш	Ш					<u> </u>	<u> </u>		]				$\perp$	⊥.																
TAT	Special Ha					SF	PECI	AL C	DET	ECT	ION	LIME	TS IS †	,					AEI	MAR	KS							$\overline{}$			- 1			
Priority (24 hr)	GTEL Contact	۱ د	_			Al	DDE	ΞD	A	N	46)	151	IS {	٠,	AD.	DI 7	10	NA	$_{q_1}$	۱۷ر	15	) \$	•	47	P	ટડ	SYY	4	**	Ple	245	' بي	$f_{1}$	1-40
Expedited (48 nr)	Quote/Contract #				_	5	An	1P	<b>ر</b> و	:5	P	RO.	M	CL	-1E	.N1	_				6	ъ.	nd	•	. ]		_				_		11 11	- 75
7 Business Days	Confirmation #	•	3			20		<del>اس</del> ۱۳۰۸ - ۱۳	<u> </u>	<u></u>	ING	050	UIRE	MEN	ITC			-	Lab	Use		4	<u>V I</u>	101	7		1		CI		<u> </u>	νış	$\overline{N}$	γ <del>ς</del>
Other Business Days	PO #		<del>}</del>			٦	COI	VF L	TEF	ОПІ	IIIG	nEU	MOILLE	IAIEI	413							-		•		<b></b>					catio	л: <u>д</u> В		
	QA / QC LEVEL					1												ļ	C.	<b>5</b> 1.	) ہے						N					•	; :	
BLUE CLP	OTHER	į																.	1670	O.	4	. /	7	3	12	2C	0	13	0	LD	N	u ri	BE	ΞR
	Pelif quished by Sampler:												Di	ate		Ţ	me	-	Rec	k Or	d by	<u>-                                    </u>		<u> </u>	, -		$\stackrel{\smile}{-}$	4-4-						
	all and the	einduisted by sempler:											12/		1	15:			•		•										,,	<u></u>	-	
OUGTODY !	Reinquished by:								-			士		ito-			me	$\dashv$	Rec	eive	1 by:	· · · ·									'	<u> </u>	- ;	-
L ČOSTODA	• • •													-	ı																		γ.	1
RECORD.	Relinquished by:											一十	Da	ite		Ti	me	T	Rec	eived	i by	Lab	orat	огу:									H	<u> </u>
	NA													1 .	$J_{\rm L}$										100	us	en	٠.						j.
, •	Carried State of the State of t											- 17	12.11	14	マー	15	. / 5	,	70		400		• •	4		1		,				্ গ		

	4080 PIKE LANE, SUITE C CONCORD, CA 94520 (510) 685-7852 (800) 423-7143												CHA	4/N-0 2 AN ₽	OF. IAL	CU. YSI	Sh	IEG	UE.	ST					76		<u> </u>					<u>.</u>
Company Name:			ne #				<del></del>				·					• • •	ر (از مهدر	79 Y	th f	<u>), + 5</u>	is a	7:	TIT	37	Ŋ.	d to		*		i di izir	æ.,	
GII				•								ı	18			1	Ï	1	1	1		1	ĺĺ	1	Ī	1.		والمحار	- 1		* 5 · ·	
Company Address:		FA) Site	(#:	tion	<del></del>							_		밀	- 1	ŀ	-		Î					ı	c	3				- 1		
4057 Port c	hicago conco	y,	1000	ation:	26	33	7 € ( )	-1૭૭	mp	<b>h</b>		7	買	Screen												¥ G				1		
Project Manager:		Clie	nt Pr	oject	1D: (#)	02	070	<u> ۲</u>	54			with MTBE [	with	Diesel		SM 503 🗆						(+15)	(+25)		bicides [	I D BC		0109	Book	8214	1	- 1
I attest that the proper field	sampling	Sam	vit) ipler	Name	415	<u> </u>	16/	<u> २५</u> ८	DP	<u> </u>		J₩	윤	Ξ,			1.		-			ABS	BS		륍를			7421		<b>!</b>	Z	
procedures were used during of these samples.	eld sampling Sampler Name (Print):  Sampler Name (Print):  MAJON											A ST	S PID	Gas	MDIS)	433		* I	,   ,		3 only	0	10		ides 🗆	utant	<u>   </u>	8	- 1		ڎ	
Field Sample	GTEL Lab #	Containers	<b>.</b>	Matr	ix	P	Meth rese	rved	L		pling	8020	BTEX/Gas Hydrocarbons PID/FID □ with MTBE □ \$020	ns GC/FID Gas □	Hydrocarbon Profile (SIMDIS) □	Oil and Grease 413.1 [3 413.2 [3]	EDB by 504   DBCP h. 604	EPA 503.1 [] FPA 502.2 []	EPA 8010 F	EPA 602 □ EPA 8020 X	EPA 608 □ 8080 □ PCB only □	EPA 624/PPL □ 8240/TAL □ NBS (+15) □	.D 8270/T/		CT 10A Metals □ Pesticides □ Herbicides □ TCLP Metals □ VOA □ Semi-VOA □ Pest □ Horb □	EPA Metals - Priority Pollutant  TAL  RCRA	CAM Metals TTLC ☐ STLC ☐	Lead 239.2 🗆 200.7 🗆 7420 🗆 7421 🗆 6010 🗅	Flash Point 77	Motor	Pad Cu	100.3
ID	(Lab use only)	∉ Con	WATER	AIR	PRODUCT OTHER	H HCI	H,SO.	ICE UNPRESERVE	SPECIETY DATE	!	IME IME	BTEX/602 [	TEX/Gas I	Hydrocarbons	ydrocarbo	H and Gree	OB by 504	PA 503.1 F	N 601 □ 1	A 602 □ F	A 608 □ 8	A 624/PPL	A 625/PPL	EP TOY MATERIAL	LP Metals I	Metals -	M Metals T	d 239.2	Corrosivity [ ]	ナチャ	1 bylosst	
Trip blank	01		X			$\overline{\lambda}$				1,		┦╨┦	<del>" </del>	<del>- </del> -	-   (	2   F	-   -		1 100	<u> </u>		岛	<u> </u>	5   B	타	8	₹	3   2	5 5	1	🛚	Z
DUP RBMW-5	02	3	X		,	λ			+		· <u>-</u> -	╁╼╂		-	- -	┿	┽	+	<del> </del> —	X				_							_~_	<u> </u>
KRWM-2	03	1	X			X	+	++	+-	1-1		╁┯╂	-+		- -	+	┽	╄	<u> </u>	Ľ		_		$\perp$			T	7				
MW-5	04	7	λ		<del>                                     </del>	X	╀╼╂┨	X		+		-	+	-	- -	┿.	╁	<del> </del> _	<u>L_</u>	X			<u> </u>		-				1	_		_
MW-1	05	ц	χ	<del>                                     </del>		<del>x</del> —	╁╌┼┨	<del>X</del>		<del>-  </del>			X.		$\bot$	-	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	<u> </u>				$\overline{}$	_ [ ]	1	1				1-	X	X	
MW-2	06		X		_		╄╼┼┤	幻	+-	┪-		X					_	_	<u> </u>					-37			_	+-	+-	X	<u>^</u>	
MW- 4	07	<del></del>	X	╼╁╌╏	<del>- - </del>	-			- -	$\uparrow \downarrow$			<u> </u>			$\perp$	<u>.</u>		1				Z.	7	اح	$\dashv$	-+-		+	<del>\$</del>		
		<del>                                     </del>	+	-   -	$+\mathcal{K}$	<u>'                                    </u>	<u>                                     </u>	四		*			_		_[_							1	┪	1	-	7	+	- -		$\vdash$	ݖ	
		-	+1		+	+-4	<b> </b>	┦	┵					_						$\neg$	_	+	╅		<del>  C</del>	-+	┰	┿	+			
		├─-	+-1	$\dashv \dashv$	++	4-1		44.	_	_										寸	+		+	+-		_	+	+	-			
TAT	Special Har	ndlina				$\perp$			L					$\neg$				-		$\dashv$	+	+		╁╸		4		4	1			
	opoolai (14)	numg			۱	SPEC	IAL D	ETEC	TION	I LIMI	TS					<del>'</del> T	REN	MAR	KS					-				_L_	1_1			
Priority (24 hr)	GTEL Contact				_												qr	۱۷ <i>۱</i>	151	5	U	m	ore	300	rvc	<u>,</u>		۱.		0		
Expedited (48 hr)	Quote/Contract #				.												•	,			,	'	١ .		. , .,	J <b>,</b>	7	104	5.C	せょ	148	Y
Other	Confirmation #				-														51	à	$\sim \gamma$	ar.	λ	~	T: .	·~	<b>.</b>	_	70 1.5		`\	1
Business Days	PO #		<del></del> -		.   S	PEC	IAL R	EPOR	TING	REC	UIRE	MENT	S			-	Lab	Use	Oni	y Lo	#		4_		_(_	Sior	D		10.0	<u>JM</u>	$\Delta$	1
	QA / QC LEVEL																				- 5					Siora	ige L	.ocat	ion: ·	Г- B	OX	-
3LUE CLP C	OTHER				ĺ		_														_									R	2/(	
	Relinquished by/Sampler:			_	F.	AX [						_				- [ ,	Worl	k Ora	tar é	. /	-,-	٠,	20	~~	21	,			,	'in K	•	
}	V 1 31.7	•								T.	De	ite		Tim	10	1	Rece	ivec	by:			<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	_	<u> </u>	<u> </u>						
OHOTOS	Relinquished by:									- [	12/	ı	1:	5.79	5				-													
COSTODY	rionmetrisi (pro Dy; 7				· <u> </u>						Da	lo-		Tim	0	╁	Rece	ived	hv.													
	Relinquished by:									-			J			1			y.													$\exists$
	remiquished by:	ished by:										te		Tim	e -	+	Rece	ivad	by t	aho	rator											
												L _	ı			- 1																$\neg$
7/91										- I	2/1/	93	11	5 1	5	1	YC	m	RL	A.	Ζ'.	Le.	pez	2000	r							



Work Order Number: C3-12-0484

January 5, 1994

Client Number: 020204554 Project ID: 2633 Telegraph Ave. Oakland, CA

Northwest Region 4080-C Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 from inside California (800) 423-7143 from outside California (510) 825-0720 (FAX)

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 12/28/93, under chain of custody record 24454.

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.

Edun Pooluli For.

Rashmi Shah

**Laboratory Director** 

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		01	02	03	04
Client Identification		MW-6	MW-7	MW-8	TBLB
Date Sampled		12/27/93	12/27/93	12/27/93	12/27/93
Date Analyzed	:	01/03/94	01/03/94	01/03/94	01/03/94
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
Benzene	0.3	<0.3	< 0.3	0.4	<0.3
Toluene	0.3	<0.3	<0.3	4	<0.3
Ethylbenzene	0.3	<0.3	1	0.4	<0.3
Xylene, total	0.5	<0.5	2	1	<0.5
TPH as Gasoline	10	<10	140	390	<10
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		90.1	90.9	89.6	90.1

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%.



## 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		05	06	07	010394M
Client Identification		RBMW-6	RBMW-7	RBMW-8	METHOD BLANK
Date Sampled		12/27/93	12/27/93	12/27/93	
Date Analyzed		01/04/94	01/04/94	01/04/94	01/03/94
Analyte	Detection Limit, ug/L		Concentrat	ion, ug/L	,
Benzene	0.3	<0.3	< 0.3	<0.3	<0.3
Toluene	0.3	<0.3	< 0.3	<0.3	<0.3
Ethylbenzene	0.3	<0.3	<0.3	<0.3	<0.3
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		91.7	88.4	90.2	88.9

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%.



## Table 1

## **ANALYTICAL RESULTS**

# -Total Petroleum Hydrocarbons in Water by Infrared Spectrometry

## EPA Method 418.11(SM 5520 FC2)

Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-202, Revised March 1983, U.S. Environmental Protection Agency. Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association.

GTEL Sample Number		01	02	03	010494 TOG
Client Identification		MW-6	MW-7	8-WM	METHOD BLANK
Date Sampled		12/27/93	12/27/93	12/27/93	
Date Prepared		01/04/94	01/04/94	01/04/94	01/04/94
Date Analyzed		01/04/94	01/04/94	01/04/94	01/04/94
Analyte	Detection Limit, mg/L		Concenti	ation, mg/L	
Total Petroleum Hydrocarbons	1	<1	<1	<1	<1
Detection Limit Multiplier		1	1	1	1



## **ANALYTICAL RESULTS**

## TPH as Motor Oil in Water

Method: GC-FIDa

GTEL Sample Number		01	02b	03b	GCK 123093
Client Identification		MW-6	MW-7	MW-8	METHOD BLANK
Date Sampled	· · · · · · · · · · · · · · · · · · ·	12/27/93	12/27/93	12/27/93	
Date Extracted		12/30/93	12/30/93	12/30/93	12/30/93
Date Analyzed		01/04/94	01/04/94	01/04/94	01/04/94
Analyte	Detection Limit, ug/L		Concent	ration, ug/L	
TPH as Motor Oil	100	<100	<100	<100	<100
Detection Limit Multiplier	<u> </u>	1	1	1.	1
OTP surrogate, % recovery		86.8	102	104	96.2

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. Uncategorized compounds present are not indicative of hydrocarbon requested.



b.

## Table 1

## **ANALYTICAL RESULTS**

## Lead in Water by Graphite Furnace AA

## EPA Methods 7421<sup>1</sup>/3005<sup>2</sup>

GTEL Sample Number		01	02	03	123093 MET
Client Identification		MW-6	MW-7	MW-8	METHOD BLANK
Date Sampled	·	12/27/93	12/27/93	12/27/93	
Date Prepared		12/30/93	12/30/93	12/30/93	12/30/93
Date Analyzed		12/30/93	12/30/93	12/30/93	12/30/93
Analyte	Detection Limit, ug/L		Concent	ration, ug/L	<u>'</u>
Lead, total	5	70	40	18	<5
Detection Limit Multiplier	<u> </u>	1	1 .	1	1

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, November 1986. Sample preparation by EPA Method 3005.





AND THE PROPERTY OF

# 10500 UNIVERSITY CENTER DRIVE TAMPA, FL 33612 (813) 979-9092

CHAIN-OF-CUSTODY	RECORD
AND ANALYSIS REQU	JEST

24454

ENVIRONMENT	λ (81	(813) 979-9092											. 3			1 52 V				1	14.	ne (s)	3	× 14 .	<u>~</u> ¬	7 <b>77 (</b>	J <del>- 4</del>	. 64	ونقى ئىن	de la compa	Assessa	Urde car	
Company Name:  GRound Water / Company Address:  4057 Port Ch Project Manager:  Mike WRAN  I attest that the proper field procedures were used during of these samples.		Phor	ne #:	5	70		71-	- z	38	7	<del></del> -		١.)	300				် (	4			6. 🕅		\$ 1.	44 1 - j		r	9.7 9.7	ý	ů		Øij	THE REPORT
GRound Water To	ech. INC	FΔY	#.				-						1	11							1				- [	1_	,					7	Ĕ
Company Address:		Site	n. locat	t'on:	2.0	5 3	₹ .	ر ص 7	100	CC	06	4.4-			EE					1			1			ا يُو	:   <sub></sub>		'		1	2002 2002 2007	Ä
14057 Port Ch	LEGGIA HILL				 10 11 11	 	ر ال	ĺ.	ンゴ	· Cq	μ,,	7.56			SS	1,	$\langle \cdot \rangle$			ľ	ĺ		1_1	/	- 10		. A				- 0	74, S	Ø
Project Manager:	The state of the s	Clien	t Pro	olect	ו איכו	(#) c	<u>~~</u>		-4				┦_	<b>.</b>		[8	3			1			20		{	Se les	5		18		및 `	J .	5
Mika WDAN				0,000 	$\Lambda_{iO}$	رس (۳ <i>)</i> سے و	/20	,Z C	9 3	5-5	9	6105-		19	ese	18	5	.	1	1		- 1	$\exists$	±5			4		민		<u> </u>	$\{ \tilde{\varepsilon} \}$	
i attest that the proper field	sampling	(NAM	(E)	) E	<u> </u>	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>							ŢĒ		<u> </u>	] [				П			8	88	=	Ş	10		3	å	1	1€	!
procedures were used durin	ng the collection	- Tank	0101	INGIIR	e (Fi	mų:							ě	8	2   S	2 5		퉗			- 1	है			عِ ا	emi:	Tan	밍		19	18		
of these samples.		JA	50	<u>ν</u>	D	<u> 5</u>		///	<u> </u>				ַם	ğ	ا ق		) <u>8</u>	<u>ā</u>	22	밁	밁	<u>تا چ</u>	YY OHY	퇽	1:2	S	튑	E	74	<del>[</del> [	3	4	
Field	GTEL Lab #	iners		Matr			Pre		ved		San	npling	8020	ydrocar	Profile	se 413.	E SM	DBC	EPA S	PA 801	PA 802	080	824		\$ 0 S	δ δ	Priority		87	Flash Point   Reserted	1.0	5	-
Sample ID	(Lab use only)	# Containers	WATER	AIR	PRODUCT	S EE	HNO,	#30, EG	UNPRESERVED	(SPECIFY)	DATE /2-2ギ	TIME	BTEX/602	BTEX/Gas Hydrocarbons PID/FID (EZwith MTBE □	Hydrocarbons GC/FID Gas [] [ Hydrocarbon Profile /Stknus: —	Oil and Grease 413.1   413.2   SM 502	TPH/IR 418.1 (8 SM 503 🗆	:DB by 504	PA 503.1 □	EPA 601 □ EPA 8010 □	PA 602 □	EPA 608 □ 8080 □ PCB only □	EPA 624/PPL □ 8240/TAL □ NBS (+15)□	EPA 610   8310	EP TOX Metals D Pesticides D Harbicidas	TCLP Metals C VOA C Semi-VOA C Pest C Harb	EPA Mylals - Priority Pollutant   TAL   RCRA	Lend 239.2 (1 200.)	Organic Lead (2)	uncessary [	TP4 A	46	A DESCRIPTION OF SHAPE
mw-6 mw-7 mw-8 TBLB	01		7		$\top$	17	1		11	1	Ī	1325		5	+-	+-	5	-	╗	-	<del>"  </del>			<u>"   "</u>	10	1	<u>نه</u> ز د	1 - 3		<del></del>			4
mw-7	02	,	<b>V</b>		11	V	V		<b>1</b> V	_	1-	1233		5		+	5	i.	~-{	-+	-	+	+	+		-		+-			<del>?</del> [	خالت	
nw-8	03		U		$\top$		U		1	-		1143		5	+-	╁╌	$\vdash$		-	+	7400	+		+	-		+	+	-				
TBLB	04		V			70			1	寸				Ŝ		+	+-		$\dashv$		一厂	40.00	4	-	╁	$\vdash$	+	<u> </u>	14	î	<u> </u>	<u> </u>	
128 mw-6	05	1	7			J.		V	1	$\top$				3	+	┢			-+	+	+	╁	+		+	┼╌┼	-	+-	┼-	1-4	-		
RE RBmw-7	06	V	/		$\sqcap$	V		Ú		_			-	7	+-	+	-		$\dashv$		-+	+	-	+	┾	╁╌┤	+	+	+	-	50		_
RBmw-8	06	T-\	/			V		V	+	_	V			2	+-	-	-		-+	-	-	+	+		+	╀╌┼	-		+	1-41		£ 80	7
					11	+	-	- -		+	<u> </u>			<del>-</del>  -		+-	-	-		_	-		+-		┼	$\vdash$	4	4,	11	郑		17	
			11			+			1-1	╅			$\dashv$	-	+	╅—	┼─┤	-			— <del> -</del> -	+	+	<del> </del> -	+-	$\vdash$	-₩	$\mathcal{H}$	4-	14			
		1	-		1-1-					+				-		╁-	-				$\dashv$	+					4	+	4	1			
TAT	Special Ha	ndilng			<b></b>	SF	ECI/	AL D	ETE(	OTIC	ON LI	LI MITS	<u>—</u> ,	L_		⊥	ᆛ	REN	AR	<u>,</u>			Ш.	HH	K							_1_	
Priority (24 hr)	OTTI O																	4					·	JV '	ч								
Expedited (48 hr)	GTEL Contact				-	}												7						1									
7 Business Davs	Confirmation #				-																		V										
Othe OS Contracted	PO #				_	SP	ECIA	AL RI	EPOI	RTIN	NG RE	QUIRE	MEN	ITS			+	ab	Use	Only	/ Loi	#					Stor	age I	000	tion		<u> </u>	
Business Days	QA / QC LEVEL																			•							0.01	ugo i			ďγ		
																													1	ر ح	ŽĮ	<b>`</b>	ļ
BLUE CLP	OTHER					FA:	х 🗆	<u> </u>									Ι,	Vork	Orc	jer#		_ :	313	20	484	4			•	<u> </u>	-15	•	
	Refinquished by Sampler	:											ite		Tin			Rece							<u>`</u>	<u>.                                    </u>							$\neg$
	Rason 17 Stu	nor	ضد									12.	27	- 17	50	0				(	Q	1/01	n	F	+	ixel							- }
CUSTODY	Relinquished by:											Da	ite		Tim		F	Rece	ived	by:	<u></u>	1		_/\	<u> </u>	<del>y jo</del>							$\dashv$
RECORD	Clouder		Njaler									12-	24	:   1	0 143	<b>)_</b>		$\mathcal{Y}$	رن	٠ (	$\lambda$	<u>،</u> ه	۰~				,						Ì
TILOURD	Relinquished by:		4										te	20	Tim	e	F			by L				<b></b>			2 -	28-	92				-
Řév. 7/91	Joen We	ber										12-2		)    -   CI	( ) ( )	07	,				1	/	•	/	$\mathcal{M}$			_ 0 -	1)		12:	00	



4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX

January 10, 1994

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

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/30/93, under chain of custody record 24490.

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.

Rashmi Shah

**Laboratory Director** 

Client Number; 020204554 Project ID: Sears 2633 Telegraph Ave. Work Order Number: C3-12-0507

## Table 1

## **ANALYTICAL RESULTS**

## TPH as Motor Oil in Water

Method: Modified EPA 8015a

GTEL Sample Number		01	02p	03c	GCK 010794						
Client Identification		MW-5	MW-1	MW-2	METHOD BLANK						
Date Sampled		12/30/93	12/30/93	12/30/93							
Date Extracted		01/05/94	01/05/94	01/05/94	01/05/94						
Date Analyzed		01/08/94	01/08/94 01/08/94 01/08/94								
Analyte	Detection Limit, ug/L		Concentration, ug/L								
TPH as motor oil	100	<100	<100	310	<100						
Detection Limit Multiplier		1	1	1	1						
OTP surrogate, % recovery		97.2	96.9	95.7	87.2						

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.
Uncategorized compound present is not indicative of hydrocarbon requested.
Hydrocarbon pattern is not characteristic of motor oil standard.

b.



COMPANY NAMES  COMPANY NAMES  COMPANY NAMES  COMPANY Address  Sile location  Company Address  Company Address  Sile location  Company Address  Company Address  Sile location  Company Address  Sile location  Company Address  Sile location  Company Address  Sile location  Company Address  Company Address  Sile location  Company Address  Company Address  Sile location  Company Address  Company Address  Company Address  Company Address  Company Address  Sile location  Company Address  Company Add	GTEL	10500 UNIVERSITY CENTER DRIVE TAMPA, FL 33612								CHAIN-OF-CUSTODY RECORD 24490																									
Company Nation:  Chan Provided Tech Wold or Fax 8 - Company Address  Sin location:  ADS PAT Chicago Hay Sin location:  May Method  Liter that the proper field sampling procedures were used during the collection of three sampling  Client Project Manage  Matrix Method  Client Project Manage  Sample Carbon Matrix Method  Chicago Hay Method  Chicag		(813	979-9092																									. 2. <sub>1</sub> . 5.	t						
CUSTODY  RECORD    Company Address:   See location:   See loca	Company Name:	-r (	Phone #: 510 · 611 · 238									]						ŀ						`		1				İ					
Project Manager    Manager	around water lechnology FAX #:										-	0	u ee												E G										
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	Company Address: Site location:										MT8(			O							] [	2		] [	뛅		0108		٥						
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	Project Manager: Client Project ID (*) CACACA CACACA											□ 132		W 503		ł					<u> </u>	₹ +			     		0	-	activi	_					
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	M. Wen. (NAME) SOURC TO LO GRADO									MTBE	FIG	Die		S		ᆔ			[	-   <u> </u>	20 3	SES		֓֞֟֓֓֓֓֓֓֓֓֟֓֓֓֓֓֓֓֟֓֓֟֟֓֓֟֟֓֓֟֓֓֟֓֓֓֟֓			742		17	ol .	2				
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	I attest that the proper field sampling Sampler Name (Print):								¥.	PID/	ន	(SIQ)	413.2		첧				<u></u>	ا ل <u>ـ</u> : الج			Semi	Artan	15	7420		E	7	12					
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A												rbons	Θ.	(SIN	1.	8		205.2				40,	2707.			₹   ₹ 8   [		7	•	Sh Po	ਰੀ				
NW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	Field	Field GTEI											ıpling		yeroca	SC/F	Profile	£e 413	1 S	MA L	EPA	EPA 80	EPA 8	ا 28 2   88 1   8		֡֡֜֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֟֝֟֟֟֟֟֟֟֟֟֟֟	83.0		. Prior	JET.	1300			2	176
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	Sample	Lab #	ntair	<i>"</i>		щĘ	_			G) AS	7			302 C	Sas H	arbor	arbor	Gre	418.	χ ξ	3.1	밁	C   8		24/P	25/PP	미	X Me	Metals	Wetak	239.2	icLe	Sivity	되	0
MW-1 O2 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-2 O3 2 NW-1 O2 A A A A A A A A A A A A A A A A A A	l ID	(Lab use only)	ૅ	VATE	إيال	38		Ş	oş.	F 68	SPECT.	)ATE	IME	E S	E S	1ydroc	lydrox	and iii	Ĭ	80	PA S	EPA 6	EPA 6	8   S	EPA 6	EPA 6	EPA 6	과   년 과   교	EPA N	CAM	Lead	Organ	ğ (	검	1-7
MW-1  O2  Q3  Q3  Q3  Phority (24 hr)  Expedited (49 hr)  Confirmation #  PO #  Second Detection Limits  SPECIAL DETECTION LIMITS  REMARKS X DUE DATE TO AMALYSIS [-12-94]  UCL DISPOSABLE  REGARD ME BILLING  Cher  Business Days  QA / QC LEVEL  BLUE   CLP   OTHER  Reliquished by Sampler:  CUSTODY  Reliquished by  Reliquished by  Reliquished by  Reliquished by:  Date Time Received by:  Received	Murs	വ	12	X	"	<u>"</u>		+					·	<u></u>	-	-						_	_	+											
TAT Special Handling SPECIAL DETECTION LIMITS  TAT Special Handling SPECIAL DETECTION LIMITS  REMARKS X DUE DATE FOR ANALYSIS I - 12-94  Used Disposable SEE DEBBJE  REGARD M6 BILLING  Confirmation #  PO #  Business Days  QA / QC LEVEL  OTHER  OTHER  CLP  CUSTODY  Relinquished by:  Relinquished by:  Relinquished by:  Date Time Received by:  Received by:  Received by:  Received by Laboratory:  Work Order # C3120507  Relinquished by:  Received by:										M																							_ .	1	
CUSTODY Relinquished by:  Reli	MW-2	<i>0</i> 3	2	М					ľ	$A_{1}$	_	<b>V</b>	-								_	$\dashv$	_	$\perp$	$\perp$				_	╀			-   3	<b>V</b>	_
CUSTODY Relinquished by:  Reli			-	+	+1	-	-	$\perp$		+	-			╁.	<u> </u>				-			-		+	╣	+	+		+-	+	$\vdash$		+	_	
CUSTODY RECORD Relinquished by:  Relinquished by			+	+	+	-		+		+	-			$\perp$					-		$\dashv$	$\dashv$	+	+	1	$\dashv$	+	+		$\dagger$				+	
CUSTODY Relinquished by:  Reli			1	11	++			+	H	$\top$																									
CUSTODY RECORD Relinquished by:  Relinquished by																					-		_		_	_	_			<u> </u>			_		<del></del>
CUSTODY RECORD Relinquished by:  Relinquished by			<del> </del>	$\bot \bot$	$\perp \downarrow \downarrow$	$\bot$	<del>                                     </del>	_			ļ	<u> </u>	ļ	-	_				_		-	_		-	4				_	_	-		-	-	-
CUSTODY RECORD Relinquished by:  Relinquished by	TAT	Special H	andlin	  g		ᆜ		PEC	IAL	DET	ECT	ION LI	MITS						$\top$	<u> </u>	/ARI	√S ?		<u> </u>	1	M	LIF	t	II.	AN:	ALY	  5		- 12	-94
CUSTODY RECORD Relinquished by:  Relinquished by				•																		•	7	. ~ \	ነ <u>ር</u> ጊ		الدار	0	SE	E	DE	Ве	ЫĖ	•	. , ,
7 Business Days Other	Expedited (48 hr)																		16	W	lc	<u> </u>	ريا	17	ŗΟ	ВN	. CJ	Ç	RE	64	æ	MG	12	illi	ING
BLUE OTHER FAX Date Time Received by:  Relinquished by:  Relinquished by:  Date Time Received by:  Date Time Received by:  12/30/93 10:00 Renacol C. gamsen  Wark Order # C3120507  Received by:  12/30/93 10:00 Renacol C. gamsen	•	f .	nation # SPECIAL REPORTING REQUIR							EQUIR	ЕМЕ	NTS																							
Relinquished by:  Relinquished	Business Days																																		
CUSTODY Relinquished by:  Received by:  Date Time Received by:  Date Time Received by:  Date Time Received by:  Date Time Received by:  Date Time Received by:  12/30/93   D : 00   Remarked Company    Waybill #									·														,	يد م	<b>2</b> i	<b>-</b> ).	~ r		<u>, –</u>						
CUSTODY Relinquished by:  RECORD  Relinquished by:  Date Time Received by Laboratory:  12/30/93 10:00 Remacator. gensern  Waybill #	BLUE L. CLP L.	<u> </u>	 er:				<u> </u> F	AX L	<u>부</u>			-		Date			Tim	1e	-   '	Wor Rec	k Or eive	der: d by:	<del># (</del>		<u>)  </u>	<u> </u>	<u>ر:</u>	<u> </u>	<u> </u>				-		
Relinquished by:  Date Time Received by:  Date Time Received by Laboratory:  12/30/93 10:00 Kensulott gensen  Waybill #			·								_																								
RECORD Relinquished by:  Date Time Received by Laboratory:  12/30/93 10:00 Ronalol C. gensen  Waybill #	CUSTODY	Relinquished by.									_		<u>.                                    </u>	<del></del>																					
12/30/93 10:00 Konslott. Jensen	·	<u> </u>	And the state of t								_	Chata			Tim	•	-	Dac	aive	d by	Loh	orati	OFV:	-											
Wayhill #	NECOND	Helinquisned by:												•						_			· ·			مر غد <b>ان</b>		•							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rev. 7/91	•											12/	30/	93	IC	):¢	0	1				01	<u>.</u> •	e K	c).	rie	7	pa <sup>ra</sup>						