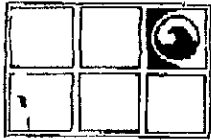


FILE COPY



# GROUNDWATER TECHNOLOGY, INC.

4080-D Pike Lane, Concord, CA 94520

(415) 671-2387

August 23, 1989

Job No. 203 175 3286

Mr. John Randall  
Chevron U.S.A. Inc.  
2410 Camino Ramon  
Bishop Ranch #6  
San Ramon, CA 94583

Subject: Soil Coring Project,  
Chevron Service Station No. 9-0191,  
900 Otis Drive, Alameda, California

Dear Mr. Randall:

This letter/report describes the results and findings of the soil-coring project conducted by Groundwater Technology, Inc. (GTI) at Chevron U.S.A. Inc. (Chevron) Service Station No. 9-0191 located at 900 Otis Drive, Alameda, California. This work was conducted under Chevron release #180 6290 issued by John Randall on May 11, 1989. The on-site work was completed on July 23, 1989.

Facility #9-0191 is an operating station. A preliminary reconnaissance located one shallow well on site. This well apparently dates from the installation of a cathodic protection system around the underground fuel-storage tanks. Construction details of the well are unknown, but free water was present within it at a depth of approximately 2-1/2-feet below grade. Station personnel reported a variable groundwater depth probably related to tidal influences. The attached figure includes the approximate well location.

Mr. John Randall  
August 23, 1989  
Page 2

Due to the very shallow groundwater depth, GTI recommended a soil-coring and well-point survey for this site. Such a program was undertaken on July 23, 1989.

GTI supervised the drilling of thirteen, 3/4-inch-diameter boreholes across the site. All boreholes were between 3-1/2- and 4-feet deep and generally showed saturated conditions below approximately 3-1/2 feet. Cores recovered from all boreholes were comprised of light-gray to brown, fine- to medium-grained sand that lacked appreciable clay or silt.

Soil samples from each borehole were screened in the field for volatile organic vapors by headspace analyses using an organic vapor monitor (OVM). One sample from each borehole was also retained for possible laboratory analyses. These samples were sealed with aluminum foil, capped and taped with plastic tape to produce an air-tight seal. The samples were then labeled and placed on ice in an insulated cooler for transportation to the California State-certified GTEL Environmental Laboratories, Inc. (GTEL) facility in Concord, California. Proper chain-of-custody documents accompanied the samples at all times.

Based on OVM readings and field observations, four soil samples were selected for laboratory analyses. The selected samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and total petroleum hydrocarbons (TPH)-as-gasoline using modified U.S. Environmental Protection Agency (EPA) Methods 5030/8020/8015. A copy of the laboratory report is attached.

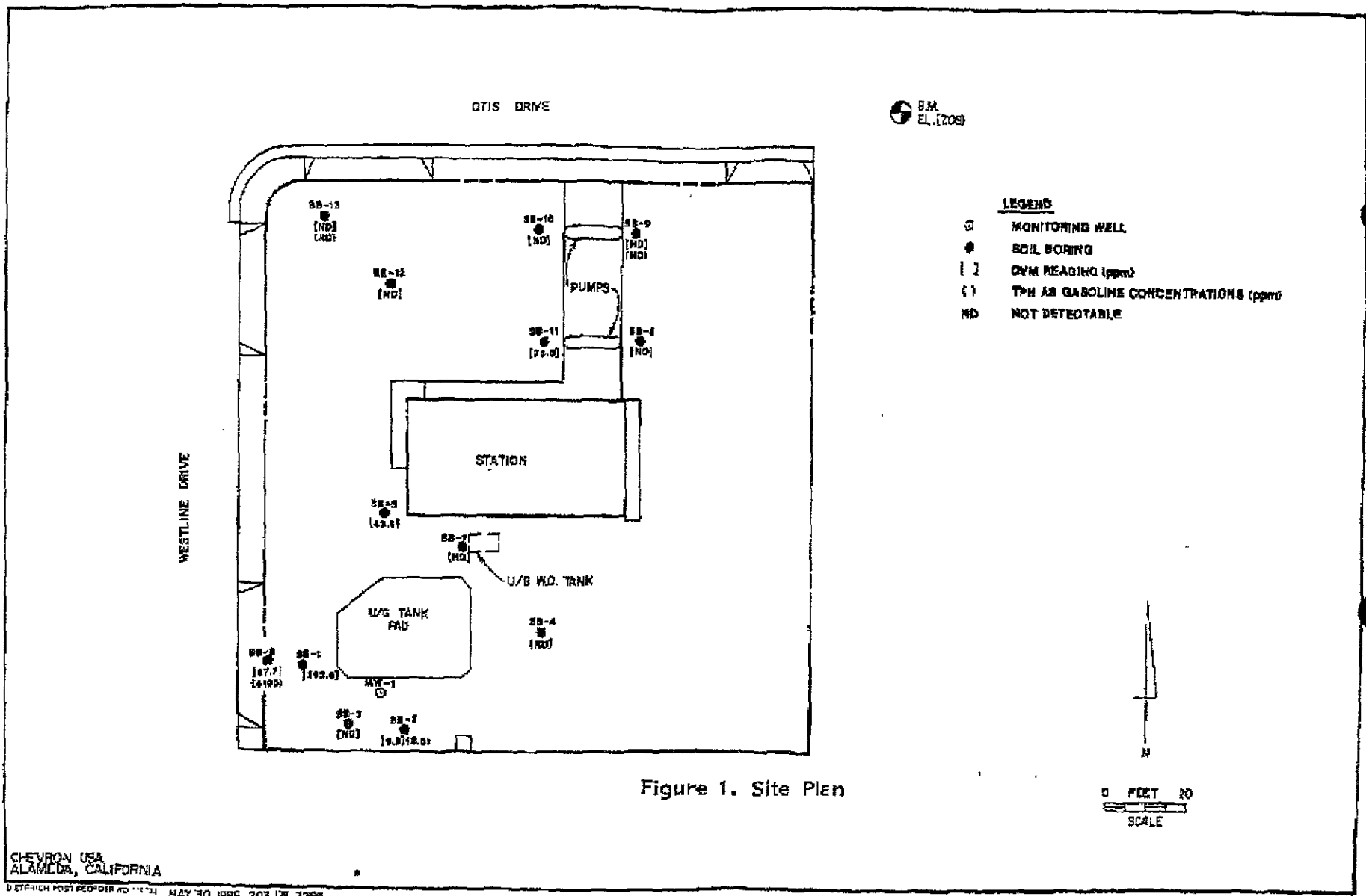


Figure 1. Site Plan

CHEVRON USA  
ALAMILDA, CALIFORNIA

D BY FICH POST PROOFER NO. 11-11 MAY 30, 1989 203-175-3285

Mr. John Randall  
August 23, 1989  
Page 4

An attempt was made to extract water samples from each of the boreholes after the soil sampling rods were removed. Without exception, each borehole caved to a depth above the water table, preventing the collection of groundwater samples. This caving is understandable given the composition of the subsurface materials. Saturated fine sands are very prone to flowing under hydrostatic pressure. Once the sampling rods are removed, the sands quickly collapse into the borehole.

Laboratory analyses of the four selected soil samples indicated measurable concentrations of BTEX and/or TPH-as-gasoline compounds in two samples. The S-2 sample results showed no BTEX and only 3.0 ppm TPH-as-gasoline. The S-6 sample results showed 720 ppm total BTEX, the majority of which was xylenes, and 6,100 ppm TPH-as-gasoline.

Table I presents a list of the sampling points including total depth of the borehole, depth of retained sample, OVM readings, and laboratory analyses BTEX and TPH-as-gasoline concentrations.

The results of the investigation indicate that native soils have been impacted by hydrocarbons emanating from the underground fuel-storage tank pit. PID readings show contamination north of the tank along the fuel-line trench and west of the southern pump island. The contamination does not appear to extend east of the tank pit or very far south. The primary direction of expansion of the contamination appears to be west. The analytical results of soil sample S-6, collected at the western edge of the site, show sufficiently high BTEX and TPH-as-gasoline to indicate that hydrocarbons most likely extend off site to the west.

Mr. John Randall  
August 23, 1989  
Page 5

It is GTI's understanding that this site is scheduled for demolition in November of 1989. Due to the extremely shallow groundwater, it is likely that all on-site adsorbed hydrocarbons in the vadose zone can be excavated during demolition. At the same time, water samples can be collected from the excavation pits. GTI recommends that Chevron undertake an investigation of the possible extent of an off-site hydrocarbon plume. Due to the sandy soil and very shallow groundwater, this site is ideally suited for a soil-vapor survey. This survey could be performed in one day with a series of samples taken across Westline Drive and, if required, into the park west of the site.

Groundwater Technology, Inc. is pleased to provide Chevron U.S.A. Inc. with this report. If you have any questions on the content, require additional information or wish to discuss possible additional work steps, please contact our Concord office at (415) 671-2387.

Sincerely,  
GROUNDWATER TECHNOLOGY, INC.



Glen L. Mitchell  
Project Geologist



Lynn E. Pera  
Registered Civil Engineer  
No. 33431

Attachment

GLM:LEP:lf  
LR3286A



TABLE I  
SOIL CORE DATA

-----  
Laboratory Analyses expressed in parts per million (ppm)  
-----

SAMPLE ID	BOREHOLE Depth (ft.)	SAMPLE Depth (ft.)	OVN READINGS	Benzene	Toluene	Ethyl-Benzene	Xylenes	Total BTEX	TPH-as-Gasoline
S-1	4	3.5	293						
S-2	4	3	0.9	ND	ND	ND	ND	ND	3
S-3	4	3	ND						
S-4	4	3	ND						
S-5	4	3	43.9						
S-6	4	3	47.7	22	120	72	510	720	6100
S-7	4	2.5	ND						
S-8	3.5	3	ND						
S-9	3.5	3.5	ND	ND	ND	ND	ND	ND	ND
S-10	4	3	ND						
S-11	4	3.5	73						
S-12	3.5	3.5	ND						
S-13	3.5	3.5	ND	ND	ND	ND	ND	ND	ND

ND = NOT DETECTED AT LABORATORY METHOD DETECTION LIMIT

MD3286A

04/29/93

07:29

2510 885 9148

GROUNDWATER TECH

121007



4080-C Pike Lane  
Concord, CA 94520  
415-685-7852

800-644-3422 (in CA)  
800-423-7143 (Outside CA)

2 of 2  
**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ FAX #: \_\_\_\_\_

Project Number: \_\_\_\_\_ Project Name: -3

Project Location: \_\_\_\_\_ Sampler Signature: *Alvin D. ...*

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volumes/Amount	Matrix					Method Preserved					Sampling		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD (7420/7421/239.2)	ORGANIC LEAD	OTHER	SPECIAL HANDLING				
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	ICE	NONE	OTHER	DATE	TIME																								
<del>S-12</del>	<del>11</del>	<del>1</del>	<del>1</del>	<del>SOIL</del>	X																																		
<del>S-13</del>	<del>03</del>	<del>1</del>	<del>1</del>	<del>SOIL</del>	X																																		

Relinquished by: <i>Alvin D. ...</i>	Date Time: <u>7/24 8:12</u>	Received by:	Remarks:  <b>pg 2 of 2</b>
Relinquished by:	Date Time:	Received by:	
Relinquished by:	Date Time:	Received by Laboratory:	

04/28/93 07:38 0510 685 9148 GROUNDWATER TECH 019







ENVIRONMENTAL  
LABORATORIES, INC.

Northwest Region  
4080 Pike Lane  
Concord, CA 94520  
(415) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California

08/04/89 jp

Page 1 of 1

WORK ORD#: C907672

CLIENT: GLEN MITCHELL  
GROUNDWATER TECHNOLOGY, INC.  
4080-D PIKE LANE  
CONCORD, CA 94520

PROJECT#: 203-175-3286-3

LOCATION: 900 OTIS DRIVE/ALAMEDA, CA

SAMPLED: 07/24/89 BY: G. MITCHELL

RECEIVED: 07/31/89

ANALYZED: 08/04/89 BY: K. PATTON

MATRIX: Soil

UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.I.D.	01 S-2	02 S-9	03 S-13
Benzene	0.5		<0.5	<0.5	<0.5
Toluene	0.5		<0.5	<0.5	<0.5
Ethylbenzene	0.5		<0.5	<0.5	<0.5
Xylenes	0.5		<0.5	<0.5	<0.5
Total BTEX	0.5		<0.5	<0.5	<0.5
Misc. Hydrocarbons (C4-C12)	1		3	<1	<1
Total Petroleum Hydrocarbons as Gasoline	1		3	<1	<1

MDL = Method Detection Limit; compound below this level would not be detected.  
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

Emma P. Popek / Pam SM  
EMMA P. POPEK, Laboratory Director



4080-C Pike Lane  
Concord, CA 94520  
415-885-7852

800-544-3422 (In CA)  
800-423-7143 (Outside CA)

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ FAX #: \_\_\_\_\_

Project Number: \_\_\_\_\_ Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_ Sampler Signature: \_\_\_\_\_

ANALYSIS REQUEST		OTHER	SPECIAL HANDLING
BTEX (602/8020)			
BTEX/TPH as Gasoline (602/8020/8016)			
TPH as Diesel (8015 or 8270)			
TPH as Jetfuel (8015 or 8270)			
Total Oil & Grease (413.1)			
Total Oil & Grease (413.2)			
Total Petroleum Hydrocarbons (416.1)			
EPA 801/8010			
EPA 602/8020			
EPA 608/6080			
EPA 608/6080-PCBs Only			
EPA 624/6240			
EPA 625/6270			
CAM - 17 Metals			
EPTOX - 8 Metals			
EPA - Priority Pollutant Metals			
LEAD(7420/7421/239.2)			
ORGANIC LEAD			

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix					Method Preserved					Sampling		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	ICE	NONE	OTHER	DATE	TIME	
				X												

Relinquished by: _____	Date _____ Time _____	Received by: _____
Relinquished by _____	Date _____ Time _____	Received by: _____
Relinquished by _____	Date _____ Time _____	Received by Laboratory: _____

Remarks: \_\_\_\_\_





# GTEL

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LABORATORIES, INC.

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4080 Pike Lane  
Concord, CA 94520  
(415) 685 7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California

08/02/89 JP

Page 1 of 1

WORK ORD#: C907536

CLIENT: GLEN MITCHELL  
GROUNDWATER TECHNOLOGY, INC.  
4080-D PIKE LANE  
CONCORD, CA 94520

PROJECT#: 203-175-3206-1

LOCATION: 900 OTIS DRIVE/ALAMEDA, CA

SAMPLED: 07/24/89

BY: G. MITCHELL

RECEIVED: 07/26/89

ANALYZED: 08/01/89

BY: K. PATTON

MATRIX: Soil

UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE #	01				
		I.D.	S-6				
Benzene	0.5		22				
Toluene	0.5		120				
Ethylbenzene	0.5		72				
Xylenes	0.5		510				
Total BTEX	0.5		720				
Misc. Hydrocarbons (C4-C12)	1		5400				
Total Petroleum Hydrocarbons as Gasoline	1		6100				

MDL = Method Detection Limit; compound below this level would not be detected.  
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

*Emma P. Poppek*  
EMMA P. POPEK, Laboratory Director



4080-C Pike Lane  
Concord, CA 94520  
415-685-7652

800-544-3422 (In CA)  
800-423-7143 (Outside CA)

2 of 2

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ FAX #: \_\_\_\_\_

Project Number: \_\_\_\_\_ Project Name: **-3**

Project Location: \_\_\_\_\_ Sampler Signature: *G. M. ...*

Sample ID		Lab # (Lab use only)	# CONTAINERS	Volumes/Amount	Matrix					Method Preserved					Sampling		ANALYSIS REQUEST	OTHER	SPECIAL HANDLING
					WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO <sub>3</sub>	ICE	NONE	OTHER	DATE	TIME			
5-12	11	1	AS		X														
<del>5-13</del>	<del>03</del>	<del>AS</del>	<del>AS</del>		X														

- BTEX (502/8020)
- BTEX/TPH as Gasoline (602/8020/8015)
- TPH as Diesel (8015 or 8270)
- TPH as Jetfuel (8015 or 8270)
- Total Oil & Grease (413.1)
- Total Oil & Grease (413.2)
- Total Petroleum Hydrocarbons (418.1)
- EPA 601/8010
- EPA 602/8020
- EPA 608/8080
- EPA 606/8060-PCBs Only
- EPA 624/8240
- EPA 625/8270
- CAM - 17 Metals
- EPTOX - 8 Metals
- EPA - Priority Pollutant Metals
- LEAD (74207421/239.2)
- ORGANIC LEAD

- PRIORITY ONE SERVICE (24 hr)
- EXPEDITED SERVICE (2-4 days)
- VERBA/SIFAX
- SPECIAL DETECTION LIMITS (SPECIFY)
- SPECIAL REPORTING REQUIREMENTS

Hold

XX

Relinquished by: *G. M. ...*

Date Time  
7/26 8:12

Received by:

Remarks:

Relinquished by:

Date Time

Received by:

Relinquished by:

Date Time

Received by Laboratory:

pg 2 of 2

04/28/93 07:33 6510 685 9148 GROUNDWATER TECH 1013



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Concord, CA 94520  
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800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY REPORT AND ANALYSIS REQUEST

add 907557  
invoice new 907677

Project Manager: G. Mitchell Phone #: \_\_\_\_\_

ANALYSIS REQUEST C OTHER SPECIAL HANDLING

Address: 900 Otis Drive Alameda FAX #: \_\_\_\_\_

Project Number: 203-175-3286 Project Name: Chevron / Otis

Project Location: \_\_\_\_\_ Sampler Signature: G. Mitchell

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix					Method Preserved					Sampling		BTEX (602/8023)	BTEX/TPH as Gasoline (602/602/8015)	TPH as Diesel (6015 or 8270)	TPH as Jetfuel (6015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 603/8030	EPA 604/8040-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(74207421/239.2)	ORGANIC LEAD	Hold	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL HANDLING REQUIREMENTS
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNOS	ICE	NONE	OTHER	DATE	TIME																								
S-1	01	1	1000 ml		X																																		
S-2	01	1	1000 ml		X																																		
S-3	03	1	1000 ml		X																																		
S-4	04	1	1000 ml		X																																		
S-5	05	1	1000 ml		X																																		
S-6	06	1	1000 ml		X																																		
S-7	06	1	1000 ml		X																																		
S-8	07	1	1000 ml		X																																		
S-9	07	1	1000 ml		X																																		
S-10	09	1	1000 ml		X																																		
S-11	10	1	1000 ml		X																																		

Relinquished by: G. Mitchell Date: 7/26 Time: 8:12 Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: 7-26-81 Time: 10:00 Received by Laboratory: Alameda CA

Remarks: Run S-2, S-9, S-13 FOR BTEX-TPH  
Please List Address on Report  
G. Mitchell  
7-26-81  
10:00  
Alameda CA

Pg 1 of 2



**ENVIRONMENTAL  
LABORATORIES, INC.**

Northwest Region  
4080 Pike Lane  
Concord, CA 94520  
(415) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California

08/04/89 JP

Page 1 of 1

WORK ORD#: C907672

CLIENT: GLEN MITCHELL  
GROUNDWATER TECHNOLOGY, INC.  
4080-D PIKE LANE  
CONCORD, CA 94520

PROJECT#: 203-175-3286-3

LOCATION: 900 OTIS DRIVE/ALAMEDA, CA

SAMPLED: 07/24/89 BY: G. MITCHELL

RECEIVED: 07/31/89

ANALYZED: 08/04/89 BY: K. PATTON

MATRIX: Soil  
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # I.D.	01 S-2	02 S-9	03 S-13
Benzene	0.5		(0.5	(0.5	(0.5
Toluene	0.5		(0.5	(0.5	(0.5
Ethylbenzene	0.5		(0.5	(0.5	(0.5
Xylenes	0.5		(0.5	(0.5	(0.5
Total BTEX	0.5		(0.5	(0.5	(0.5
Misc. Hydrocarbons (C4-C12)	1		3	(1	(1
Total Petroleum Hydrocarbons as Gasoline	1		3	(1	(1

NDL = Method Detection Limit; compound below this level would not be detected.  
Results rounded to two significant figures.

METHOD: Modified EPA 5030/6020/8015

*Emma P. Popek / Pam Sme*  
EMMA P. POPEK, Laboratory Director



4080-C Pike Lane  
Concord, CA 94520  
415-685-7852

800-544-3422 (In CA)  
800-423-7143 (Outside CA)

202

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ FAX #: \_\_\_\_\_

Project Number: \_\_\_\_\_ Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_ Sampler Signature: *W.C. Melcher*

ANALYSIS REQUEST										OTHER	SPECIAL HANDLING
BTEX (602/8020) BTEX/TPH as Gasoline (602/8020/8015) TPH as Diesel (8015 or 8270) TPH as Jetfuel (8015 or 8270) Total Oil & Grease (413.1) Total Oil & Grease (413.2) Total Petroleum Hydrocarbons (418.1) EPA 601/2010 EPA 602/8080 EPA 608/8080 EPA 608/8080-PCBs Only EPA 624/8240 EPA 625/8270 CAM - 17 Metals EPTOX - 8 Metals EPA - Priority Pollutant Metals LEAD (420/7421/289.2) ORGANIC LEAD Hold											
PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBAL R/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS							

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix					Method Preserved					Sampling		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	ICE	NONE	OTHER	DATE	TIME	
S-12		1	4.5		X						X				7/24	11:25
S-13		1	3.6		X						X				7/24	11:33

Relinquished by: <i>W.C. Melcher</i>	Date Time: 7/26 8:12	Received by:
Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time: 7-26 2:10	Received by Laboratory: <i>W.C. Melcher</i>

Remarks:

*W.C. Melcher*





4080-C Pike Lane  
Concord, CA 94520  
415-685-7852

800-544-3422 (In CA)  
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: G. Mitchell Phone #:

Address: 900 Otis Drive Alameda FAX #:

Project Number: 203-175-3286 Project Name: Chevron / Otis

Project Location: Sampler Signature: Chr L. White

ANALYSIS REQUEST

OTHER SPECIAL HANDLING

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix				Method Preserved				Sampling		BTEX (802/803)	BTEX/TPH as Gasoline (802/802/801/6)	TPH as Diesel (8015 or 8270)	TPH as Jet/Aul (8015 or 8270)	Total Oil & Grease (419.1)	Total Oil & Grease (419.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/601B	EPA 602/6020	EPA 606/6060	EPA 609/6090-PCBs Only	EPA 624/6240	EPA 625/6250	CANN - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(74207421/630.2)	ORGANIC LEAD	Hold	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBAL/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	ICE	NONE	OTHER																									DATE
S-1		1	150		X								7/24	8:45																								
S-2		1	150		X								7/24	9:05																								
S-3		1	150		X									9:20																								
S-4		1	150		X									9:35																								
S-5		1	150		X									9:45																								
S-6		1	150		X									10:00	X																							
S-7		1	150		X									10:10																								
S-8		1	150		X									10:25																								
S-9		1	150		X									10:40																								
S-10		1	150		X									10:55																								
S-11		1	150		X									11:15																								

Relinquished by: Chr L. White Date Time 7/26 9:12

Received by: \_\_\_\_\_

Remarks: Please list all on report

Relinquished by: \_\_\_\_\_ Date Time \_\_\_\_\_

Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date Time \_\_\_\_\_

Received by Laboratory: \_\_\_\_\_



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LABORATORIES, INC.**

Northwest Region  
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Concord, CA 94520  
(415) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California

09/02/89 JP

Page 1 of 1

WORK ORD#: C907535  
CLIENT: GLEN MITCHELL  
GROUNDWATER TECHNOLOGY, INC.  
4880-D PIKE LANE  
CONCORD, CA 94520  
PROJECT#: 203-175-3286-1  
LOCATION: 900 OTIS DRIVE/ALAMEDA, CA

SAMPLED: 07/24/89 BY: G. MITCHELL  
RECEIVED: 07/26/89  
ANALYZED: 08/01/89 BY: K. PATTON

MATRIX: Soil  
UNITS: mg/Kg (ppm)

PARAMETER	MDL	SAMPLE # / I.D.	01 S-6				
Benzene	0.5		22				
Toluene	0.5		120				
Ethylbenzene	0.5		72				
Xylenes	0.5		510				
Total BTEX	0.5		720				
Misc. Hydrocarbons (C4-C12)	1		5400				
Total Petroleum Hydrocarbons as Gasoline	1		6100				

MDL = Method Detection Limit; compound below this level would not be detected.  
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

*Emma P. Poppek*  
EMMA P. POPEK, Laboratory Director