Z CAMBRIA: Or great

October 27, 1997

Ms. Tammy Hodge Chevron Products Company 6001 Bollinger Canyon Road, Building L San Ramon, CA 94583-0804

RECEIVED

By Alameda County Environmental Health at 3:03 pm, Dec 04, 2014

Re:

Site Information Summary for Case Closure

Former Asphalt Plant and Terminal #1001067

Powell Street and Landregan Street Emeryville, California

Cambria Project No. 31-694.01

Dear Ms. Hodge:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has reviewed Chevron Product Company's (Chevron) San Ramon project file for the above referenced site and has completed the attached Site Closure Summary Form.

It appears that the hydrocarbon and halogenated volatile organic compound (HVOC) source areas were excavated, removing nearly 1,100 cubic yards of soil from the site. The hydrocarbon and HVOC concentrations in ground water are steadily decreasing. According to the most current ground water data, April 22, 1997, no petroleum hydrocarbons were detected above maximum contaminant levels for drinking water (MCLs). No MTBE was detected in any of the April 22, 1997 ground water samples. Although the ground water sample from MW-19A contained 430 ppb total petroleum hydrocarbons as gasoline (TPHg), the site is no longer is utilized as a bulk asphalt plant and terminal and the TPHg concentrations are steadily decreasing. HVOCs historically were detected at a maximum of 7,000 parts per billion (ppb). However, HVOC maximum concentrations have decreased to 830 ppb and most concentrations are near or below MCLs.

Since the contaminant source areas were excavated and removed, the hydrocarbon and HVOC concentrations are steadily decreasing. Therefore, the site may be a closure candidate. Until closure is granted, we recommend sampling MW-10, MW-17, MW-18 and MW-19A annually.

ENVIRONMENTAL

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Sincerely,

Technology, Inc.

Cambria Environmental Technology, Inc.

1144 65тн Street,

ATTE OUTIL DIRECT,

SUITE B

OAKLAND,

N. Scott MacLeod, R.G.

Principal Geologist

CA 94608

Attachments:

A - Case Closure Summary Form

B - Site Figures

C - Ground Water Contour Maps and Tables

D - Soil Tables and Boring Well/Logs

E - Site History

F:\PROJECT\CHEVRON\1001067\summltr1.wpd

No. 5747

Рн: (510) 420-0700

Fax: (510) 420-9170

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Attachment A

Case Closure Summary Form

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: 09/29/97

Agency Name: SF Bay Regional Water Quality Control Board	Address: 2101 Webster Street
City/State/Zip: Oakland, CA 94612	Phone: (510) 286-1255
Responsible Staff Person:	Title:

II. SITE INFORMATION

Site Facility Name: Former Chevro	on Bulk Asphalt Terminal #1001067		
Site Facility Address: Powell Stree	t St. and Landregan Street, Emeryville, C	CA .	
RB/SMS Case No.: 2223.09	Local or LOP Case No.:	Priority:	
URF Filing Date:	SWEEPS No.:		· · · · · · · · · · · · · · · · · · ·
Responsible Parties (include addres	sses and phone numbers)		
Chevron Products Company			
P.O. Box 5004			
San Ramon, CA 94583			
(510) 842-9500			

Tank No.	Size in Gallons	Contents	Closed In—Place/Removed?	Date
ASTs #9, 3, 5, 10, 11	36,000; NA, 43,600; 10,700; 40,300; 24,000	#9=kerosene, 3,5,10,11= unknown	Removed	10/87
UST#NA	2,185	unknown	Removed (no records)	10/87
At least 4 other ASTs	NA	unknown	Removed	Prior to 1956

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Site characterization complete? Yes	Date Approved By Ov	ersight Agency: NA
Monitoring wells installed? Yes	Number: 19	Proper screened interval? Yes, except for MW-13
Highest GW Depth Below Ground Surface: 0.74' (3/26/92)	Lowest Depth; 8.04' (11/29/91)	Flow Direction: South to Southeast
Most Sensitive Current Use: Amtrak Train Station		
Most Sensitive Potential Use and Probability of Use: water wells nearby; local water supply is EBMUD	Not Known, TDS = 1250	ppb - high salinity, not potable. No drinking
Are drinking water wells affected? No	Aquifer Name: NA	·

Is surface water affected? No	Nearest/Affected SW Name: San Francisco Bay, approximately 2.000 ft west
Off-Site Beneficial Use Impacts (Addresses/Locations)): None Known
Report(s) on file? Yes	Where is report(s) filed? Alameda Department of Environmental Health - Health Care Services Agency

	TREATMENT ANI	DISPOSAL OF AFFECTED MATERIAL	
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
AST/UST	6 ASTs, 1 UST, 4 ASTs	Removed & disposed-not known where. 4 ASTs, previously removed, according to site blueprint.	10/87 prior to 1956
Piping	At least 1,500 ft	Removed & disposed- not known where.	10/87
Free Product	NA		
Soil	1989: 10,656 yd³, 1990: 500 yd³, 1992-93: 15-70 yd³	1989-90: Excavated/disposed at American Rock & Asphalt Facility, Richmond, CA; 5/92: 15 yd³ excavated & stockpiled; 2/93: 70 yd³ disposed at CWM, Inc., Kettleman Hills, CA, ESI, Grandview, ID.	5/89-8/89, 10/90, 5/92- 2/93
Groundwater	None		

MAXIM	UM DOCU	MENTED	POLLUTA	ANT CON	CENTRATIONS-	_BEFORE	AND AFT	ER CLEA	NUP.
POLLUTANT	Soil	(ppm)	Water	r (ppb)		Soil	(ррт)	Wate	r (ppb)
FOLLUTANI	Before	After ²	Before ³	After⁴	POLLUTANT	Before ^I	After ²	Before ³	After⁴
TPH (Gas)	7,500	1,200	20,000	430	Xylene	20	3.1	160	<0.5
TPH (Diesel) (Kerosene)	2,700 1,400	3,500 1,400	NA	NA	Ethylbenzene	18	0.68	40	<0.5
Benzene	1.4	0.5	120	0.8	Oil & Grease Total/Petr.	2,300/ 92,000	1,700/ 92,000	<1,000	NA
Toluene	6.1	0.066	82	<0.5	Heavy Metals (Cd, Cr, Pb, Ni, Zn)	4; 37; 880; 70; 400	4; 17; 800; NA; 400	340; 20,000; 150; NA; 5,900	NA
MTBE	NA	NA	34/<5 ⁵	<5.0					
HVOCs		•							
1,1-dichloro- ethene (1,1-DCE)	ND	ND	12	<0.5	Vinyl chloride	ND	ND	1,800	<0.8
1,2-dichloro- ethene	ND	ND	7,000	<0.5	1,2-dichloro- propane	ND .	ND	6	ND
t-1,2-dichloro- ethene	ND	1.7	69	<0.5	Chloro- methane	ND	ND	63	ND

c-1,2-di chloroethene	ND	ND	5,900	85	Methylene chloride	0.025	0.025	0.6	ND
1,1-dichloro- ethane	ND	ND	9.1	9.1	Trichloro- fluoromethane	ND	ND	0.9	ND
1,1,1-tri- chloroethane	ND	ND	16	3.2	t-1,3-dichloro- propane	ND	ND	11	ND
Trichloro- ethane	15	15	280	150	1,2-dichloro- ethane	ND	ND	1.8	ND
Perchloro- ethane	ND	0.007	1,500	830	1,1,22-tetra- chloroethane	ND	ND	3	ND
Chloroform	0.022	0.022	4.1	<0.5	1,2-dichloro- benzene	ND	ND	3.1	ND
					Dichloro- methane	ND	ND	6.2	ND
Acetone	0.420	0.15	0.15	NA			_		
Poly- chlorinated biphenyl	0.06	0.06	NA	NA					

Comments (Depth of Remediation, etc.): Total of approximately 11,150 yd³ soil excavated to 6 ft below ground surface (bgs) in 1989 and 1990.

- 1 Soil boring samples, subsequently over-excavated. 2 Confirmatory excavation samples and soil borings not over-excavated.
- 3 Historical maximums. 4 Latest sampling event, 4/22/97.
- 5 Separate analyses by EPA method 8020/8240B. Approximately 15 yd³ soil was excavated to 9 ft bgs under the garage/sump area in May 1992.

IV. CLOSURE

Site Management Requirements: Monitoring Wells Decommissioned: Yes* Number Decommissioned: 11* Number Retained
Monitoring Wells Decommissioned: Yes* Number Decommissioned: 11* Number Retained
List Enforcement Actions Taken:

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

Title:	Date:
Harding Lawson Associates, Environmental Assessment	11/07/88
Groundwater Technology, Inc. (GTI), Subsurface Soil Investigation	12/24/89
Western Geologic Resources (WGR), Soil Sampling Results	02/27/89
WGR, Soils Remediation Report	12/90
WGR, Additional Subsurface Investigation	03/90
WGR, Soil Sampling	04/90
WGR, Additional Soils Excavation	12/20/90
WGR, Soil Sampling	05/17/91; 02/27/91
Geraghty & Miller Inc., Results of the Soil Sampling Activities	06/09/92
Superior Precision Analytical, Inc.	10/07/92
Geraghty & Miller, Inc, Risk Assessment.	07/28/92
WGR, Closure Plan	06/90
Gettler-Ryan, Inc., Semi-Annual Groundwater Monitoring and Sampling Report	05/28/97
WGR, Workplan for Soil Remediation	05/91
Gettler-Ryan, Inc., Well Replacement Report	12/13/95
Geraghty & Miller, Inc., Risk Assessment	07/28/92

VI. ADDITIONAL COMMENTS, DATA, ETC.

PLEASE INCLUDE/ATTACH THE FOLLOWING AS APPROPRIATE:

1) SITE MAP INDICATING TANK PIT LOCATION, MONITORING WELL LOCATION, GROUNDWATER GRADIENT, ETC.; AND,

2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.)

* Monitoring wells MW-4, MW-5, and MW-6 were destroyed during soil excavation in 1989. Five additional wells (MW-1, MW-3, MW-9, MW-12 and MW-16) cannot be located and are presumed to be destroyed. Two additional wells, MW-2 and MW-19, were abandoned in 1995 and replaced with new wells MW-2A and MW-19A, respectively. Well MW-14 was abandoned in 1993, not replaced.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file

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Attachment B
Site Figures

WGR

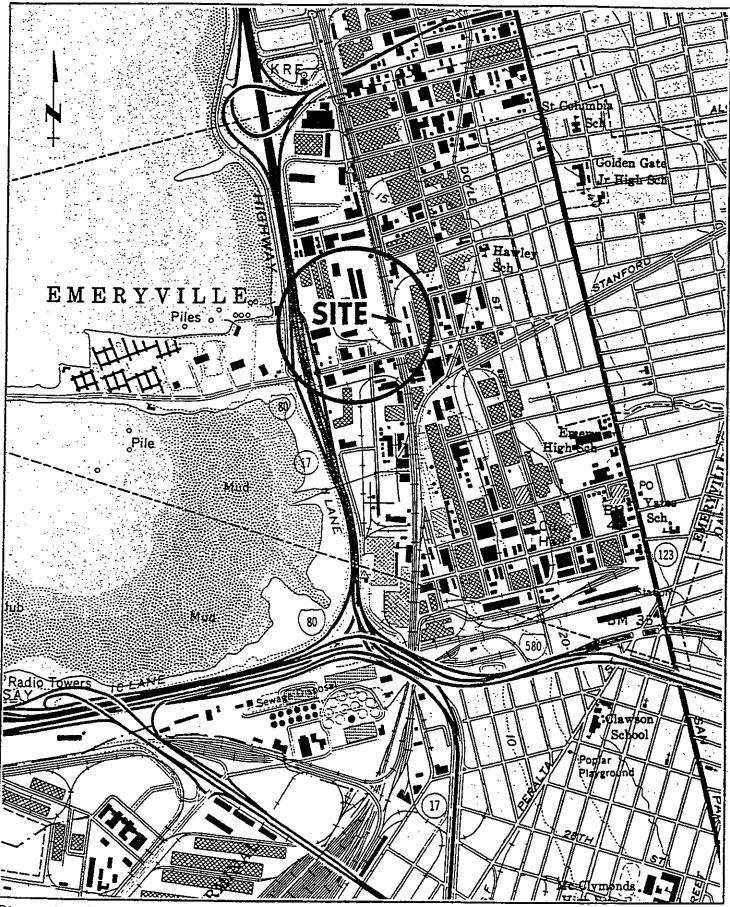
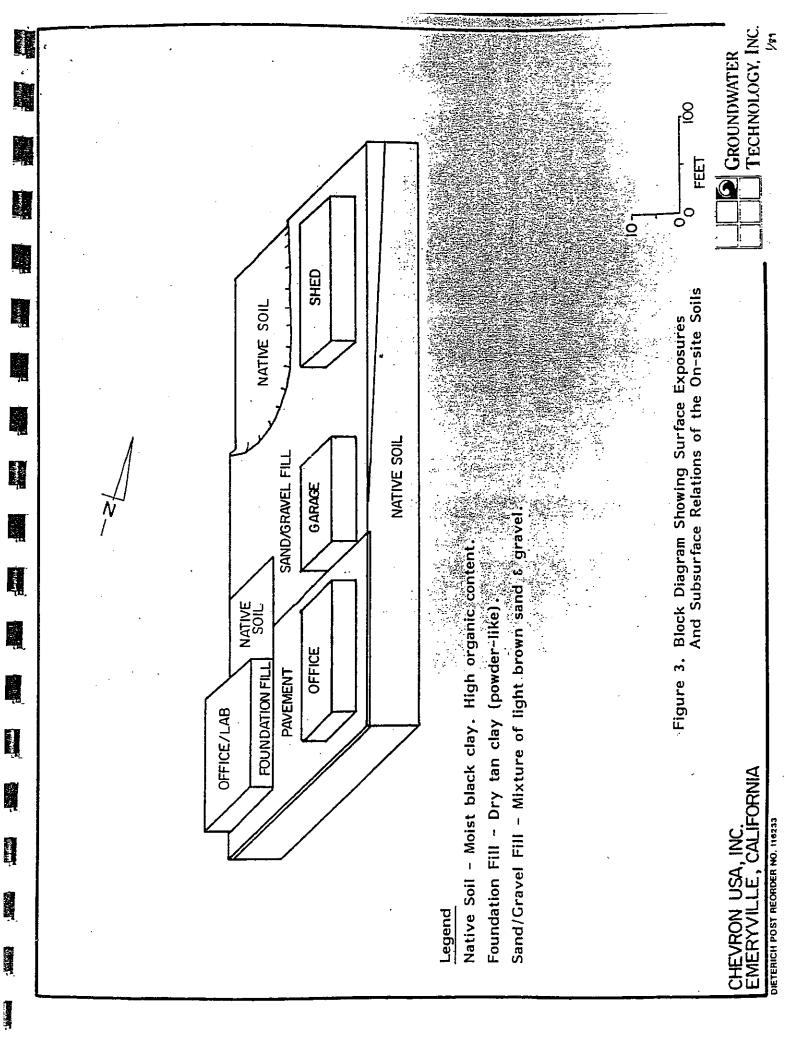


Figure 1. Site Location Map,
Former Chevron Asphalt Plant
1520 Powell Street, Emeryville, California.



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Attachment C Ground Water Tables and Contour Maps



MTBE Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California × 60.55.00.33.00.39. 凶 H \$10.50 \$1 TPH(G) Analytical Method 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8260 8260 8260 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8260 8260 8260 Product Thickness² 9.15 7.80 7.83 6.92 6.92 6.12 6.12 6.39 6.39 ¥TG € 3.72 4.80 4.74 4.74 4.75 5.07 5.30 5.85 5.85 5.85 5.63 6.30 2.62 2.62 4.63 5.85 5.95 5.95 6.34 6.01 6.10 7.39 4/26/85 9/11/87 7/7/88 4/13/89 1/3/189 1/3/189 3/21/90 6/19/90 9/21/90 12/28/90 5/10/91 8/8/91 11/27/91 11/29/92 3/26/92 3/26/92 3/26/92 4/26/85 9/11/87 7/7/88 4/13/89 4/14/89 12/8/89 3/21/90 6/19/90 9/20/90 9/21/90 5/10/91 8/8/91 11/27/91 11/27/91 17/23/92 Well ID/ TOC (ft)¹ MW-1 10.67 MW-2/ 13.78



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft) ¹	Date	DTW (ft)	GWE ¹ (msl)	Product Thickness ² (ft)	Analytical Method	TPH(G)	8	T	м	×	MTBE
MW-2	10/28/92 5/4/93* 1/5/94 ¹⁰ 10/24/94 4/19/95 11/6/95	7.51 ————————————————————————————————————	6.27 .— .— .— 11.28 ¹⁴	0 0	8015/8020	* 11111	2	6911111	# 11111	211111	111111
MW-2A 12,45 ·	11/6/95 4/26/96 10/10/96 4/22/97	4.51 4.10 5.32 3.95	7.94 8.35 7.13 8.50	0000	8015/8020 8015/8020 8015/8020 8015/8020	× × × × × × × × × × × × × × × × × × ×		<pre>< 0.5 < 0.5 < 0.5 < 0.5 </pre>	>	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	\$ < 5.0 \$ 5.0 \$ 5.0 \$ 5.0 \$ 5.0
MW-3/ 11.73	4/26/85 9/11/87 7/7/88 4/13/89 4/14/89* 7/31/89 12/8/89 3/21/90 6/19/90 9/21/90 12/28/90 5/10/91 8/8/91 1/29/92 3/26/92 3/26/92 3/26/92 3/26/92 3/26/92 5/4/93* 1/5/94**	2.34 2.34 3.03 2.55 2.76 2.83 5.37 5.09 5.00 5.00 5.00 6.00 6.00 6.00 6.00 6.00			8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020	1 1 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0				
MW-4	4/26/85 9/11/87 7/7/88 4/13/89 ⁴	1 7 1 1 1	11111	11111		3,100 <100 - 380 ¹³	<pre>< 0.5 < 0.5 < 0.5 </pre>	1 1 5	11110	11110	1111



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

MW-5	Çaş	(¥)	(msl)	(i)	Method		a	qdd		•	MTBE -
4	4/26/85 9/11/87 7/7/88 4/13/89³		11111	11111	8260	1,600 	<1100 <10 <5.0 - <0.5	1 1 1 2	11117	11117	11111
MW-6	4/26/85 9/11/87 7/7/88 4/13/89*	1 1 1	11111	1111	1 1 1.00	580 	 <td>11110</td><td>1 0.15</td><td>1117</td><td></td>	11110	1 0.15	1117	
10.47	4/26/85 9/11/88 4/13/88 4/13/89 4/14/89* 7/31/89 1/2/8/99 9/20/90 9/20/90 9/20/90 9/20/90 1/2/8/91 1/29/92 3/26/92 3/26/92 3/26/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/92 1/23/94	1.90 1.90 1.90 2.65 3.12 3.53 4.41 4.41 5.03 5.03 5.03	8.57 7.35 6.23 7.35 6.94		8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020	\$ 18 18 2 18 8 18 8 18 8 18 8 8 8 8 8 8 8	A 01. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		111111111111111111111111111111111111111



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)'	Date	DTW (ft)	GWE ¹ (msl)	Product Thickness ² (ft)	Analytical Method	TPH(G)	æ	T	m	×	MTBE
MW-7 (cont)	10/10/96 4/22/97	5.02 4.54	5.45 5.93	00	8015/8020 8015/8020	< 20 < 20 < 20	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 < 5.0
MW-8/ 10.46	4/26/85	1	ı	l	. 1		ă	1	I	1	1
	9/11/87	1	I	i	i	ì	010	i	i	i	1
	4/13/80	, 80	7 66	ŧ	Ī	20,000	<5.0	i	i	i	ı
	4/14/89*	2	9.		7,80	۱ <u>۲</u>	1 <	1 5	1 5	1 ;	1 ,
	7/31/89	5.70	4.76	0	8260) } }	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	? . V	2 C S	\s,000
	12/8/89	4,13	6.33	0	8015/8020	i	<0.3	<0.3	<0.3	9.0>	I
	3/21/90	4.07	6.39	0 (8015/8020	<50	<0.3	<0.3	<0.3	9.0>	1
	06/06/0	4.25	6.21	0	8015/8020	<50	~0.3	<0.3	<0.3	9.0>	I
	9/21/90	<u>.</u>)	i i	8015/8/20	\	I \$	\$	1 5	1 9	I
	12/28/90	4.39	6.07	 	8015/8020		2.0	70 Y	5.0 V	9.00	ļ
	5/10/91	4.13	6.33	0	8015/8020	8,8	Ç 60 V V	× 0.5	\ \ \ \ \ \ \ \	0 V	
	8/8/91	5,53	4.93	0	8015/8020	· 05>	<0.5	<0.5	<0.5	<0.5	1
	11/27/91	4.59	5.87	0	8015/8020	~ \$0 \$	<0.5	<0.5	<0.5	<0.5	
	1/29/92	5.30	5.16	0	8015/8020	~ \$0	. <0.5	<0.5	<0.5	<0.5	ļ
	76/07/5	3.59	6.87	0 (8015/8020	× × × × × × × × × × × × × × × × × × ×	<0.5	<0.5	<0.5	0.7	1
	76/57//	90.0	 9	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	1
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	26/20/701	Julia Cara	20283010	'	1 2	1	1	i	1	1	1
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MW-9	4/26/85	I	1	i		1		.1	ı	•	ł
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	7/7/88	i	i	i	i	400		1			! !
	5/10/91³	ı	i	ı	i	1	I	1	i	1	ı
MW-10/ 10.82	88/L/L	1	1	ı	I	1	<5.0	I	I	1	i
	4/14/89*	1	1	1.	8260	~	<0.5	<1.0	<1.0	<1.0	ļ



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft) ¹	Date	DTW (ft)	GWE ¹	Product Thickness ² (ft)	Analytical Method	TPH(G)	м	F-	缸	×	MTBE
								ndd			
MW-10	7/31/89	l	l	ł	8260			4		•	
(cont)	12/8/89	ı	ı	ł	8015/8020	? I	. v	 	<0.1	7.0>	1
	3/21/90	4.60	6.22	0	8015/8020	\$) \ \ \	ر د د	5.0 V	9.0	i
	06/11/9	4.89	5.93	0	8015/8020	8 5	 		C0.3	9.0°	I
	9/20/90	5.77	5.05	ļ	1	;	? /	20	ر د د د د د د د د د د د د د د د د د د د	40.6 40.6	i
	9/21/90	ł	i	ŀ	8015/8020	5	1 5	1 5	1 5	ſ	ı
	12/28/90	4.99	5.83	0	8015/8020	2 S	. v	5 0 V	£.0 ×	×0.6	1
	5/10/91	5.80	5.02	· c	8015/8020	2 5	000 000 000 000 000 000 000 000 000 00	\$0.5 \$	0.5	<0.5	i
	8/8/91	5.86	4.96	· c	8015/8020	000	<0.5	<0.5 20.5	<0.5	<0.5	i
	11/27/91	5,39	5.43	o c	8015/8020) V V	0.5 0.5	<0.5	<0.5	<0.5	1
	1/29/92	5.44	38	· c	8015/8020	2 5	C.U.S.	<0.5 5	<0.5	<0.5	i
	3/26/92	4.96	5.86	· c	9012/9020	200	C.0.5	<0.5	<0.5	<0.5	į
	7/23/92	5.80	\$ 00	> <	07/9/2/09	000	<0.5 6.6	<0.5	<0.5	<0.5	l
	10/28/92	90.9	4 76	> C	0709/5109	2000 2000 2000 2000 2000 2000 2000 20	<0.5	90	0.5	1.9	i
	5/4/93	}	2	>	0709/C109) V	9.0	0.7	<0.5	1.2	!
	1/5/04	60	•	1 9		:		i	1	i	ł
	10/6/13	76.6	S. 1	>	8015/8020	20 V	<0.5	<0.5	<0.5	9.0	1
	10,77,04	60.0	5.73	Ο.	8015/8020	140	<0.5	<0.5	<0.5	1.3	i
	46/67/01	0.24	4.58	0	8015/8020	< 50	<0.5	<0.5	<0.5	. 302	;
	4/19/95	5.26	5.56	0	8015/8020	< 20	<0.5	<0.5	<0.5) Y O	1
	11/6/95	6.25		0	8015/8020	05>	V 0 V	V 0 V	200) v	1 5
	4/26/96	Inaccessib		ı	ļ	}	} ; :		70.7	50.5	O.C.>
	10/10/96			0	8015/8020	· · ·	70/	\ 	֓֞֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	1 2	1 6
	4/22/97	5.50	5.32	0	8015/8020	02 V	\$0 V	\$0 \$0 \$0	50V	9 4	- CA D
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11.38	7/7/88										
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	7/14/09	I	ł	I	8260	< 20	<0.5	<1.0	<1.0	<1.0	<3,000
	69/10/7	!	ł	i	8260	v 180	<0.2	<0.2	<0.2	<0.2	۱ ۱
	68/8/71	1	1	ı	8015/8020	ł	<0.3	<0.3	<0.3	>0.0	ı
	3/21/90	4.82	95'9	0	8015/8020	~ V	<0.3	<0.3	<0.3	9.0>	ı
	0/16//90	5.14	6.24	. 0	8015/8020	· 20 >	<0.3	<0.3	<0.3	9.0 >	i
	9/20/90	6.11	5,27	!	i	i	1	ı	İ		ı
	9/21/90	!	l	ŀ	8015/8020	<50	<0.3	<0.3	<0.3	y 0 >	
	12/28/90	5.16	6.22	0	8015/8020	<50	<0.5	<0.5	<0.5	2.0.5 2.0.5	
	5/10/91	7.83	3.55	0	8015/8020	<50	<0.5	20 2	\ \ \ \	¥ 6	!
	8/8/91	6.32	5.06	0	8015/8020	<50	< 0 ×	20 S	\$ 0 V	\$ 0 V	
	11/27/91	. 5.67	5.71	0	8015/8020	95	\$ 0 ×	\$ O V	, v) Y	ı
	1/29/92	5.83	5.55	0	8015/8020	\$	\$ 0 V) V	; v) v	ļ
	3/26/92	4.09	7.29	0	8015/8020	\$ \$) V	? v	, v	7 Y	ł
	7/23/92	6.19	5.19	· C	8015/8020	8 5) v) \ / \	7 4	, v	į
	10/28/92	6.51	4.87	. 0	8015/8020	3 5	7 V	() V	CO V	C0.5	l
		!	• •	•	070010100	?	, ,	C.Ų.	c'n>	<0.5	l



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

	COMMINGO										
Well ID			1	Product							
TOC (ft) ¹	Date	(E)	GWE: (msl)	Thickness* (ft)	Analytical Method	TPH(G)	В .	T	ы	×	MTBE
MW-11	5/4/93	i	1	ļ	ı	1	ļ	1			
(cont)	1/5/94	1	ı	ł	i	i	1	: 1			Ì
	5/13/94	5.67	5.71	0	8015/8020	05>	\$ U >	\ \ \ \	20/	0	ļ
	10/24/94	6.79	4.59	0	8015/8020	05>	\$ 0 ×	207	200) V	ı
	4/19/95	5.69	5.69	0	8015/8020	288	90	20 > 0 > 0) V V) } }	
	11/6/95	Inace	cessible	ł	1	; I	: 1)		3	
	4/26/96	Inacc	cessible	1	ļ	1	ا. ٠		: I		!
	10/10/96	Inaco	cessible	1	i	I	4	ļ			
	4/22/97	5.94	5,44	0	8015/8020	<5.0	<0.5	<0.5	<0.5	<0.5	<5.0
MW-12/							<u>.</u>				
13 03	88/1/1						,				
70.01	00///	ì	ł	ł	ı	× 18	~ 5.0	İ	ł	ı	i
	4/14/89*	į	i	ł	8260	× 20	<0.5	0'1>	<1.0	<1.0	}
	7/31/89	1	i	ı	8260	× 100	<0.1	<0.5	<0.1	< 0.2	ł
	12/8/89	ı	ł	ļ	8015/8020	1	<0.3	<0.3	<0.3	<0.0	į
	3/21/90	6.76	6.27	0	8015/8020	<50	<0.3	<0.2	<0.3	V 0 3	ļ
	6/19/90	6.62	6.41	0	8015/8020	< >20	<0.3	<0.3	<0.3	() ()	1
	9/20/6	5.00	8.03	i	ı	: 1	<u>.</u> [,) }	1	}
	9/21/90	ļ	I	I	8015/8020	9	70%	,	ا د د	۱۶	I
	12/28/90	6 63	17.7	•	040012100	3 5	, ,	2 5	CO !	CO.	į
	5/10/01/5	70:0	14.0	> <	0709/2109	200	C.0.5	\ \ \ \ \ \ \	<0.5 0.5	<0.5	1
	0.0701	9 6	0.3	> <	8015/8020) V	<0.5	<0.5	<0.5	<0.5	i
	16/0/0	0.0 0.0	20.0	5 (8015/8020	×20	<0.5	<0.5	<0.5	<0.5	i
	16/17/11	ce.,	5.08	0	8015/8020	× 20	<0.5	<0.5	<0.5	<0.5	I
	76/67/1	7.68	5.35	0	8015/8020	~ 20	<0.5	<0.5	<0.5	1.0	1
	3/26/92	09.9	6.43	0	8015/8020	<50	. <0.5	<0.5	<0.5	<0.5	ľ
	1123192	i	I	i	ł	l	1	i	ı	I	i
MW-13/											
11.15	3/21/90	4.08	7.07	C	8015/8020	480	70	60/	0.	v	
	06/61/9	4,34	6.81		8015/8020	081	9 6 V V		2 0	0 0	ł
	9/20/90	5,31	5.84	0	8015/8020	9 5) () (? ?	5.0	l
	12/28/90	4.79	6.36		8015/8020	6 9) V	: v) () ()	ţ, -	ł
	5/10/91	4.20	6.95		8015/8020	91) V) Y	9.0	i
	8/8/91	5.13	6.02		8015/8000	37.6) \) v) \ / \) o	I
	11/27/91	4.72	6.43	0	8015/8020	3 5) V) \ \ \) \ \ \ \		1
	1/29/92	4.69	6.46		8015/8020	5	(V	20/	? -	1 - 1	l
	3/26/92	4. 2.	7.11	0	8015/8020	05>	20 V	202	, v		}
	7/23/92	5.12	6.03		8015/8020	} 6	1 v) \	9 0	} -	İ
	10/28/92	5.30	5.85	o 0	8015/8020	26	, v	, v	, v		
	5/4/93	1	•	ł	l	<u></u>	1	<u>;</u> i) } }	ì	;
	1/5/94	ł	i	i	ł	1					l
						Ī	l	Ī	ļ	ì	i



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/		יאיירד	Elico	Product							
TOC (ft)	Date	(E)	(msl)	I MCKING88" (ft)	Analytical	TPH(G)	e	T	ш	×	MTBE
C 101											
MW-13	5/13/94	5.28	5.87	0	8015/8020	220	<0.5	1.2	<0.5	1.7	ł
(coul)	10/24/94	6.04	5.11	0	8015/8020	~ \$0	<0.5	<0.5	<0.5	<0.5	
	4/19/95	5.37	5.78	0	8015/8020	1402	<0.5	<0.5	<0.5	1.2	I
	11/6/95	6.13	5.02	0	8015/8020	× 50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/26/96	5.22		o	8015/8020	< >50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/10/96	Inaccessit	essible	ı	ł	1	i	ı	ļ	ı	1
	4/22/97	5.46	5.69	•	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-14/											
9.78	3/21/90	0.91	8.87	0	8015/8020	170	<0.3	<0.3	707	00	ļ
	06/61/9	1.03	8.75	0	8015/8020	77	<03	< 0.3 < 0.3	60 00	907	li
	9/20/90	2.53	7.25	0	8015/8020	<50	<0.3	< 0.3	< 0.3	900	1
	12/28/90	19'1	8.17	0	8015/8020	>	<0.5	<0.5	<0.5	20 2	
	5/10/91	1.22	8.56	0	8015/8020	< 50	<0.5	. <0.5	<0.5	<0.5	
	8/8/91	2.45	7.33	0	8015/8020	< 50	<0.5	<0.5	<0.5	<0.5	i
	11/27/91	2.59	7.19	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	i
•	1/29/92	1.10	8.68	0	8015/8020	~ \$0	<0.5	<0.5	<0.5	<0.5	I
	3/26/92	0.74	9.04	0	8015/8020	×-	<0.5	<0.5	<0.5	<0.5	1
	7/23/92	2.30	7.48	0	8015/8020	>	9.0	<0.5	<0.5	8.0	1
	10/28/92			0	8015/8020	26	0.7	4.0	8.0	3.8	1
	5/4/93*	Abandone	doned	1	I	1	I	ı	i	I	į
MW-15/											
11.01	3/21/90	4.72	6.29	0	8015/8020	< 50	<0.3	<0.3	×0.3	90>	i
	06/11/90	4.78	6.23	0	8015/8020	× 20	<0.3	<0.3	<0.3	50.6	
	9/20/90	4.98	6.03	0	8015/8020	× 20	<0.3	<0.3	<0.3	> 0.6	١
	12/28/90	4.84	6.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	l
	5/10/91	4.58	6.43	0	8015/8020	< 50	<0.5	<0.5	<0.5	<0.5	1
	8/8/91	5.03	5.98	0	8015/8020	< 50	<0.5	<0.5	<0.5	<0.5	1
	11/27/91	5.88	5.13	0	8015/8020	> 00	<0.5	<0.5	<0.5	<0.5	1
	1/29/92	4.82	6.19		8015/8020	>	6.1	2.6	8'0	2.6	
	3/26/92	4.35	99.9	.	8015/8020	< < 20	<0.5	<0.5	<0.5	<0.5	1
	7/23/92	5.04	5.97	0	8015/8020	~ \$0	<0.5	<0.5	<0.5	5.0	ì
	10/28/92	5.17	5.84	0	8015/8020	< 50	<0.5	<0.5	<0.5	<0.5	1
	5/4/93	i	ł	i	ı	1	1	I	l	ł	I
	1/5/94"	i		1	1	1	1	i	I	1	ı
	5/13/94	4.50	6.51	0	8015/8020	110	. <0.5	0.7	<0.5	2.0	i
	10/24/94	5.17	5.84	0	8015/8020	<50	2.3	1.1	<0.5	<0.5	I
	4/19/95	4.77	6.24	0	8015/8020	< 50	<0.5	<0.5	<0.5	<0.5	i
	11/6/95	5.28	5.73	0	8015/8020	>	<0.5	<0.5	<0.5	<0.5	<5.0
	4/26/96	4.60	6.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<5.0



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft) ¹	Date	DTW (f)	GWE¹ (ms!)	Product Thickness ² (ft)	Analytical Method	TPH(G)	В	T	网	×	MTBE
MW-15 (cont)	10/10/96 4/22/97	5.22 4.85	5.79 6.16	o o	8015/8020 8015/8020	× × × × × × × × × × × × × × × × × × ×	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5.0 <5.0
MW-16/											
11.11	3/21/90	5.84	5.27	0	8015/8020	<\$0	<0.3	<0.3	<0.3	9.0>	i
	06/61/0	5.90	5.21	0	8015/8020	< 20	<0.3	<0.	<0.3	900>	
	06/07/6	0.30	4.75	•	8015/8020	\ \ \	<0.3	<0.3	<0.3	9.0>	ì
	06/07/7	86.0	5.13	0	8015/8020	< 20	<0.5	<0.5	<0.5	<0,5	ļ
	3/10/91	98.6	5.22	ó.	8015/8020	~ 20	<0.5	<0.5	<0.5	<0.5	ı
	11/27/01	87.0	4,83	Φ (8015/8020	~ 20	<0.5	<0.5	<0.5	<0.5	ì
	16/17/11	70.0	5.49	0	8015/8020	~20	<0.5	<0.5	<0.5	<0.5	1
	76/67/1	2,88	5.23	0	8015/8020	89	3.6	6.2	1.9	9.9	i
	76/07/5	0.50	5.55	0	8015/8020	270	21	27	9.5	41	Į
	76/57/	6.29	4.82	0	8015/8020	~ 20	<0.5	<0.5	<0.5	0.7	I
	76/87/01	6.29	4.82	0	8015/8020	20	6.0	4.1	<0.5	=	I
	5/4/93	5.75	5.36	0	8015/8020	51	<0.5	1.0	9.0	1.7	i
	161611	ı	l	i	i	ł	j	١	İ	i	1
//T-MW			٠								
10.41	3/21/90	5.61	4.80	0	8015/8020	<50	<0.3	<0.3	<0.3	>0.6	ł
	06/161/9	1	ı	ı	8015/8020	< \$0	<0.3	<0.3	<0.3	<0.0	ı
	9/20/90	6.02	4.39	0	8015/8020	<50	<0.3	<0.3	<0.3	<0.6	ì
	12/28/90	5.73	4.68	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	I
	2/10/91	5.65	4.76	0	8015/8020	<50	<0.5	<0.5	<0.5	8.0	i
	16/8/8	5.94	4.47	0	8015/8020	82	1.9	2.5	6.0	5,4	ļ
	16//7/11	9.9	4.4]	0	8015/8020	~ 50	<0.5	<0.5	<0.5	<0.5	i
	76/67/1	5.61	4.80	0	8015/8020	>	<0.5	6.0	<0.5	0.5	l
	26/07/5	1.31	5.10 	o '	8015/8020	V	<0.5	<0.5	<0.5	<0.5	ı
	26/67/1	76.0	4.44	0 (8015/8020	>	<0.5	<0.5	<0.5	<0.5	ļ
	24,07	2.30	C4.4	o •	8015/8020	78	0.1	7.1	4:1	6.5	i
	26/4/2	65,	2.88	- 0	8015/8020	9	9.8	1.7	1.1	3.0	i
	46/0/1	5.50	4.91	Φ	· 8015/8020	~ 20	<0.5	0.7	<0.5	<0.5	i
	5/13/94	5.17	5.24	0	8015/8020	< < \$0	<0.5	<0.5	<0.5	<0.5	1
	10/24/94	90.9	4,33	0	8015/8020	< > 20	<0.5	<0.5	<0.5	<0.5	1
	4/19/95	5.48	4.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	1
	11/6/95	9.00	4.41	0	8015/8020	~ 50	<0.5	<0.5	<0.5	<5.0	1
	4/26/96	5.45	4.96	•	8015/8020	× 50	<0.5	<0.5	<0.5	<5.0	1
	96/01/01	5.72	4.69		8015/8020	< 20 < 20	<0.5	<0.5	<0.5	<0.5	<5.0
	4/22/97	5.38	5.03	0	8015//020	~20	<0.5	<0.5	<0.5	<0.5	<5.0
	•										



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft) ¹ MW-18/ 9.80		i	GWE1	Product	•		۾ .	ŧ	1	;	
TOC (ft) ¹ MW-18/ 9.80		≯Ia	125		Analytical A	E TOL					
MW-18/ 9.80	Date	(f)	(mal)	(t)	Method	1rn(0)	a	qdd	n	×	MTBE
08.6		*				••	٠,				
	3/21/90	5.15	4.65	c	8015/8000	Š	. :	ţ	•	,	
	06/16/90	5.19	4.61	· c	8015/8020	2 S 2 N	, co	5 O V	×0.3	9.0V	!
	9/20/90	5.54	4.26	· c	8015/8020	2 S		, v	5.0.5 5.0.3	9.0×	l
	12/28/90	5.26	4.54	• •	8015/8020	3 S	? v V \	\$ 0.3 \$ 0.3	5.00	×0.6	l
	5/10/91	5.18	4.62	· c	8015/8020	8 5		C.U.	50×	<0.5	ı
	8/8/91	5,45	. 4.35	• •	8015/8020	ှိ န	0 V V	5.0.5 7.0.5	0.5	<0.5	i
	11/27/91	5.24	4.56	. ~	8015/8020	3 5		CO V	CO V	\$0.5 V	I
	1/29/92	5.12	4.68	0	8015/8020		7 O	C. 7	۰.5	2.1	į
	3/26/92	4.84	4.96	0	8015/8020		3.0	7.0	. ;	0.0	1
	7/23/92	5.49	4.3		8015/8020	2 8		c.o. •	<0.5 V	8.0	i
	10/28/92	5 47	4 33	>	9015/8020	> 3	<u>.</u>	2.1	0.5	3,0	1
	5/4/93	5 07		> <	0700/5100	4,	<0.5 0.5	1.3	<0.5	1.1	i
	1/5/94	50.5	24.4	> 0	8015/8020	200 200 200 200 200 200 200 200 200 20	<0.5	<0.5	<0.5	<1.5	1
	2/13/04	20.4	5.5	- •	8015/8020	× •	<0.5	0.5	<0.5	9.0	!
	10/24/01	4.70	5	o .	8015/8020	>	. <0.5	<0.5	<0.5	<0,5	i
	\$6/\$7/OT	5,65	4.15	0	8015/8020	× ×	<0.5	<0.5	<0.5	<0.5	i
	4/19/95	5.10	4.70	0	8015/8020	~ 20	<0.5	<0.5	<0.5	\$ 0 ×	1
	56/9/11	5.57	4.23	0	8015/8020	×20	<0.5	<0.5	5:0>	\$ 0 V	8
	4/26/96	5.07	4.73	0	8015/8020	× 20	<0.5	\$ U.S	¥ 0.>	200) \ / \
	10/10/96	1	1.	i	ı	1	i) 1	2	2	2.57
	4/22/97	5.03	4.77	0	8015/8020	05>	¥ 0 ×	4	1	1 <	•
						3	3	7	\ G	ر د ا	0.67
MW-19/			,		-						
8.45	3/21/90	5.00	3.45	0	8015/8020	05>	707	6	,	701	
	06/61/9	5.06	3.39	0	8015/8020	\$ \$) () ()		?	9 00	l
	9/20/90	5.25	3.20	. 0	8015/8020	8.5	, c		200	0.0	I
	12/28/90	5.07	3 38		8015/8020	3	. v	7 O	700	0.00	I
	5/10/91	5.02	3.43		9015/9030	3 8	200	5.05	c.0>	<0.5	1
	8/8/91	5.17	3.28	o e	8015/8020	3 2	5 Y	C V V	50.5 50.5	<0.5 6.6	l
	11/27/91	5.06	3.30		070075100	9 5	() ()	, (O	C.U.	C.U.	I
	1/29/92	4.93	3.52	· c	8015/8020	8 9		, v	C.0.	\$0.5 \	i
	3/26/92	4.79	3.66	· • •	8015/8020	3,5		0.7) ; ;	2.1	i
	7/23/92	5.22	3 23	· c	0709/200	្តិ	C.O. V	د. د ر ز	\$0.5 \$	<0.5	ł
	10/28/92	91.5	300	> <	07/0/2100	Þ :	6.0		50 2	1.5	
	5/4/93	2.7	63.6	> 0	0708/5108	0/.1	4.	28	5.1	24	i
	1,6,04	6.9	2.5	> (8015/8020	120	2.0	4.7	2.8	8.1	ł
	10,011	76.4	40.5	o	8015/8020	× × × ×	2.0	1.4	1.7	2.5	I
	3/13/94	81.4	4.27	0	8015/8020	~	<0.5	6.0	<0.5	<0.5	ı
	10/24/94	. 4.85 C. 6.95	3.60	0	8015/8020	× ×	<0.5	<0.5	<0.5	<0.5	J
	11/2/05	_		0	8015/8020	27013	<0.5	<0.5	<0.5	<0.5	ı
	721011	Abandone	loned	I	1	ļ	I	i	1	1	i



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

Well ID/ TOC (ft)' D	Date (ft)	GWE ¹ (msl)	Product Thickness ² (ft)	Analyticat Method	TPH(G)	A	H	m	×	MTBE
							dd 			^
11/6/95		5.11	0	8015/8020	. 420	\$0>	• • • • • • • • • • • • • • • • • • •	V	9	4
4/26/		5.78	0	8015/8020	S	10 V	7 V	7 V	C 0 V	<<
10/10/	96 4.56	5.40	0	8015/8020	1019) \ / \) \ / \	() ()	, v	0.00
4/22/		5.79	0	8015/8020	43017	₹0 >	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	CO V	7 F
4114	S							}	3	2.57
7/14/	66	1	ł	8260	< 50	<0.5	<1.0	<1.0	<1.0	i
11011	6 6	i	ł	8260	× \$0	<0.1	<0.5	<0.5	<0>	i
/8/71	66	i	ı	8015/8020		<0.3	<0.3	E 0 V	4 v	i :
3/21/6	 	1	i	8015/8020	0 >	<0.3	<0.3	<0.3	900	I
70775	; }	i	i	8015/8020	`: >	<0,3	<0.3	<0.3	90>	' I
0/19/	!	ł	l	8015/8020	< 20	. <0.3	<0.3	<0.5	907	
06/17/6	1	.1	ł	8015/8020	· >20	<0.3	<0,3	× 0.3	< 0.6 < 0.6	1 1
707/7	1	I	ì	8015/8020	0\$>	<0.5	<0.5	<0.5	90	i
70170	!	1	i	8015/8020	< < 20	<0.5	<0.5	<0.5	<0.5	į
11777	!	į	1	8015/8020	~ \$0	<0.5	<0.5	<0.5	<0.5	: 1
1,707.1	1	I	1	8015/8020	~	<0.5	<0.5	<0.5	<0.5	1
16711	1		i	8015/8020	~20	<0.5	<0.5	<0.5	<0.5	ł
7/27/6	1	I	ì	8015/8020	< 20	<0.5	<0.5	<0.5	<0.5	1
0,00,01	i 2 5	ļ	ı	8015/8020	×50	<0.5	<0.5	<0.5	<0.5	i
2/07/01	7 9	I	ı	8015/8020	× 50	<0.5	<0.5	<0.5	<0.5	ı
0/4/0	l e z	ŀ	ı	8015/8020	> 20	<0.5	<0.5	<0.5	<1.5	1
2017	!	:	i	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	1
3/13/5	1	ŀ	!	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	i
4/67/OT	ļ	i	i	8015/8020	· >20	<0.5	<0.5	<0.5	<0.5	J
() X [)		ı	ļ	8015/8020	< < >20	<0.5	<0.5	<0.5	<0.5	ļ
5/0/11	ا د د	i	ł	8015/8020	> 20	<0.5	<0.5	<0.5	<0.5	0.5.>
4/20/4	ا	i	i	8015/8020	<\$0	<0.5	<0.5	<0.5	<0.5	<5.0
6/01/01		ł	ł.	8015/8020	20	<0.5	<0.5	<0.5	<0.5	<5.0
(177) +	1	i	i	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	<5.0



Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California

Other			S S S S S S S S S S S S S S S S S S S
NC VC	340 760 760 750 1,100 1,	1 0000000000000000000000000000000000000	^ ^ 0.8 ^ ^ 0.8 0.4.0
G.F	\$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	1 1000000000000000000000000000000000000	<1.0 <0.5 <0.5 <2.5
PCE	2.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1 000000000000000000000000000000000000	<1.0 <0.5 <0.5 <2.5
TCB	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1 0000000000000000000000000000000000000	<1.0 <0.5 <0.5 <2.5
1,1,1- TCA	650 650 650 650 650 650 650 650 650 650	1 00 00 00 00 00 00 00 00 00 00 00 00 00	<pre>< 0.0 < 0.5 < 0.5 < 2.5 </pre>
1,1- DCA	5.0 5.0 5.1 5.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	00000000000000000000000000000000000000	<pre>< < 0.5 < 0.5 < 2.5 < 2.5 </pre>
e-1,2- DCE	2,600 2,600 1,500 2,300 1,500 1,500 1,500 1,500 1,500 1,600	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
t-1,2- DCE	=21 1822X288851		<1.0 <0.5 <2.5 <2.5
1,2- DCE	1,27,2,2 1,05,28,2,2 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	00000000000000000000000000000000000000	
1,1- DCE	\$5.0 6.8 6.8 6.8 7.1 7.1 12 7.1 1.0 50 6.2 6.2 6.2 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	00000000000000000000000000000000000000	<1.0 <0.5 <2.5
Analytical Method	8010 8010 8010 8010 8010 8010 8010 8010	8010 8010 8010 8010 8010 8010 8010 8010	8010 8010 8010 8010
Analytical Lab	CCAS CCAS GTEL GTEL GTEL GTEL SAL SAL SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	CCAS CCAS GTEL GTEL GTEL GTEL SAL SAL SAL SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	GTEL GTEL GTEL
Date Sampled	4/14/89 7/31/89 12/8/89 3/21/90 6/19/90 9/21/90 12/28/90 5/10/91 8/8/91 11/27/91 11/27/91 11/23/92 3/26/92 7/23/92 5/4/93 1/5/94**	4/14/89 7/31/89 12/8/89 3/21/90 6/19/90 9/21/90 12/28/90 5/10/91 8/8/91 11/27/91 11/27/91 1/29/92 5/4/93* 1/5/94* 5/13/94* 5/13/94* 10/24/94* 11/6/95	11/6/95 4/26/96 10/10/96 4/22/97
Well ID	MW-1	MW-2	MW-2A



Other HVOCs	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		١Ę
VC	0.12 0.12 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13	01.0.2.4.4.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	<1.0
CF	000 000 000 000 000 000 000 000 000 00	2000 2000 2000 2000 2000 2000 2000 200	<2.0 <0.5
PCB	000 000 000 000 000 000 000 000 000 00	0.1.0 0.0.5 0.0.0.5 0.0.0.5 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.	<1.0 <0.1
TCE	8:5 6:8 6:8 6:8 6:8 6:8 6:8 6:8 6:8	04.44.6.8.6.6.8.6.8.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6.6.8.6	<1.0 0.8
1,1,1- TCA	000 000 000 000 000 000 000 000 000 00	0.17 1.17 1.17 1.17 1.00 1.00 1.00 1.00	<1.0 <0.1
1,1. DCA	00.5 2.1 2.1 2.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	<1.0 <0.1
c-1,2- DCB	000 62 12 1 1 2 2 2 4 2 4 1 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	151 1 1 1 2 2 2 2 2 2	11
1,2- +1,21,2- 1,1- 1,1,1- Other DCB DCB DCB TCA TCB PCB CF VC HVOCs Ppb	6,8 9,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	5	1 1
		8 8 8 8 8 1 1 1 1 1 1 1	1.0
1,1- DCE	00.00 00.000 00.0000 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	<1.0 <0.1
Analytical Method	8010 8010 8010 8010 8010 8010 8010 8010	8010 8010 8010 8010 8010 8010 8010 8010	8010 8010
Date Analytical Analytical 1,1- Sampled Lab Method DCE	SPA SPA SPA SPA SPA SPA SPA SPA GTEL GTEL	CCAS CCAS CCAS CCAS GTEL GTEL GTEL GTEL SAL SAL SAL SAL SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	CCAS
Date Sampled	11/27/91 1/29/92 3/26/92 7/23/92 10/28/92 5/4/93** 1/5/94 5/13/94 10/24/94** 4/19/95 11/6/95 4/26/96 10/10/96	4/14/89 7/31/89 12/8/89 3/21/90 6/19/90 9/21/90 12/28/90 5/10/91 8/8/91 11/29/92 7/23/92 10/28/92 5/4/93** 5/4/93** 1/5/94** 5/13/94 10/24/94** 5/13/94	4/14/89 7/31/89
Well D	(cont)	MW-11	MW-12



WW14 712199 SPA	Ω A	Sampled	Analylical Lab	Analytical Method	I,1. DCE	1,2- DCE	1,2- t-1,2- c-1,2- 1,1- 1,1,1- Other DCB DCB DCA TCA TCB PCB CF VC HVOCs	°-1,2-	1,1- DCA	1,1,1- TCA	TCE	2	CP ED	۸c	Other
107897 SPA S					/					qdd					쉮
100.0592	MW-14	7/23/92	SPA	8010	<0,5	i	\$ 0 >	¥ 0 ×	v 0/	٠ ١	* 6			,	
Marriagonesis	(cont)	10/28/92	SPA	8010	<0.5	ı	<0.5	<0.5 <0.5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 0 0 0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	70 V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
1779 OTHER 8010		5/4/93-	Abandoned	Ī	1	i	i	1	i	1	; ;	? !	} I	<u>}</u> !	
\$\$NIPROW CTELL \$\text{\$NIPROW CTELL \$\text{\$NIPROW	MW-15	3/21/90	GTEL	0108	,	***			1	,					
1720/2009 GTEL S0010 COLOR C		06/11/9	GTEL	8010	7 C		ļ	į	V0.5	<0.5	<0.5	<0.5	<0.5	<1.0	
172789 SAL Shi		9/20/6	GTEL	8010	7.07	, v	i	1	\$ 0.5 \$ 0.5	×0.5	<0.5 5.6	<0.5	<0.5	<1.0	
1879 SAL 8010		12/28/90	SAL	8010	7:0V		1 5	1 4	5.0.V	, 00 s	20.5	<0.5	<0.5	×1.0	
117972 SPA SRIO COS		\$/10/91	SAL	8010	\$ 0 V		7 V	V V	CDV	\$0.5 \$	×0.5	<0.5	<0.5	×1.0	
112799 SPA 8010		8/8/91	SAL	8010	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	! !	7 V	0 V	(V	<0.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	<0.5	<0.5	<0.5	V1.0	
172992 SPA S		11/27/91	SPA	8010	\$ 0 V	i i) \	7 4	() ()	C 0 V	50.5 V	V 0.5	<0.5	<1.0 <1.0	
173592 SRA 800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <th< td=""><td></td><td>1/29/92</td><td>SPA</td><td>8010</td><td><0.5</td><td>! !</td><td>() ()</td><td>, v</td><td>5 Y \</td><td>(V</td><td>.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0</td><td><0.5 5.5</td><td>202</td><td><1.0</td><td></td></th<>		1/29/92	SPA	8010	<0.5	! !	() ()	, v	5 Y \	(V	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	<0.5 5.5	20 2	<1.0	
1728/92 SPA Sign Cold		3/26/92	SPA	8010	202	! !	() ()	7 4) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, (C.)	50.5	\$0°2	×0.5	0.I.V	
1073892 SPA		7/23/92	SPA	8010	7 V	•	() ()	C.0.5	COV.	<0.5	×0.5	<0.5	<0.5	<1.0 1.0	
15/94*		10/28/92	SPA	8010			() \ () \	50 V	C.0.	<0.5	<0.5	<0.5	<0.5	<0.5	
1594* SA		5/4/93*	I	}		i	C.O.	C.U.>	C.U.	<0.5	<0.5	<0.5	<0.5	0. 1.0	
Sign SPA		1/5/9434	į]	i	ı	ł	i	1	ļ	ı	ļ	1	1	
102494 SPA S		\$/13/04	Y QU	6	1, 5	ı	i	i	i	1	ı	i	1	1	
116795 STA S		10/24/04	SDA SDA	0010	C.0.	ł	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
116936 GTEL 8010 CO.5		4/10/05	V 463	8010	\$0.5	i	<0.5	<0.5	<0.5	<0.5	3.1	<0.5	3.8	<0.5	
476095 GTEL 8010 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <		11/6/05	orA Grea	8010	. < 0.5	ı	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
1,10,10 CTEL 8010 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		11/0/93	7315	8010	×1.0	I	V1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.1.	0.1.V	
4/21/97 GTEL 8010 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 < 6.5 <th< td=""><td></td><td>96/07/4</td><td>7315</td><td>8010</td><td><0.5</td><td>ì</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td>800</td><td>•</td></th<>		96/07/4	7315	8010	<0.5	ì	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	800	•
4/12/97 GTEL 8010 <0.5 - 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		10/10/96	GTEL	8010	<0.5	i	<0.5	<0.5	<0.5	<0.5 2.0.5	<0.5	<0.5	<0>>	8 0 V	
3/21/90 GTEL 8010 <0.2 0.8		1617714	CLEL	8010	<0.5	i	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 5.0.5	8.0 V	
3/21/90 GTEL 8010 <0.2 0.8 — <0.5 <0.5 2.0 6/19/90 GTEL 8010 <0.2					:										
GTEL 8010 <0.2 <0.5 <	MW-16	3/21/90	GTEL	8010	<0.2	~	ļ	,	3	3 0 /	ţ	4	•	;	
GTEL 8010 <0.2 0.9		6/19/90	GTEL	8010	202	200	1	I	, v	C. 0.	17	o e	2.0	0.1	
SAL 8010 < 0.5		9/20/90	GTEL	8010	2 5	200	l	ŧ	C 0 5	C.0.5	S :	0.7	2.0	0. V	
SAL 8010 <0.5 - 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		12/28/90	SAL	8010	1 v 0 (٠. د.م	1 5	1 3	CO.	0.5	64	SI :	4.1	V-1.0	
SAL 8010 < Co.5		5/10/01	CA1	0100	. v		C.0.	CD>	\$0.5 \$	<0.5	29	28	4. 0.	V. 1.0	
SPA 8010 < 0.5		8/8/01	SAI	9010	() ()	1	\$ \cdot \cdo	0.5	<0.5	<0.5	32	01	4.0	0.1.	
SPA 8010 < 0.5		11/27/91	V V	0108	() () ()	l		۲۵.5 د د د د د د د د د د د د د د د د د د د	\$ 0.5 \$ 0.5	~0.5	35	13	1.9	۸ 1.0	
SPA 8010 < < < > < < > < < < > < < < < > < < < < < < > < < < < < < < < < < < < < < < < < < < <		1/29/92	V d S	8010	7 Y	-	. v	<u>ا</u> د	, co.	<0.5 5.0.5	4.1	12	- -	<1.0	
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Table 2. Well ID

MW-17

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Color	OTHER 8010 <0.02 3.7 —														
97FL 8000	97 E. 8010	3/21/90	GTEL	8010	<0.2	5.2	I	1	0.7	1.3	32	=	1.1	1.0	I
GGE WILL CORD CALL	GTEL 8000 <0.02 2.4 — <0.55 1.4 4.5 <0.15 SAL 8000 <0.05 — <0.55 — <0.55 1.4 1.5 2.3 <0.10 SAL 8000 <0.05 — <0.05 — <0.05 — <0.05 — <0.05 <0.05 — <0.05 — <0.05 — <0.05 <0.05 — <0.05 — <0.05 <0.05 — <0.05 — <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	06/16/90	GTEL	8010	<0.2	3.1	i	1	<0.5	1.0	38	13	1.2	<1.0	1
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SPA 8010 <1.2 <1.2 6.4 <1.2 <1.2 <2.5 SPA 8010 <1.2 <1.2 <1.2 <1.2 <1.2 <1.3 <1.7 <2.5 SPA 8010 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	SPA 8010 <1.2 <1.2 <1.2 6.4 <1.2 <1.2 1.7 <2.5 SPA 8010 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 </td <td>1/29/92</td> <td>SPA</td> <td>8010</td> <td><5.0</td> <td>ŀ</td> <td><5.0</td> <td><5.0</td> <td><5.0</td> <td><5.0</td> <td>29</td> <td>11</td> <td><5.0</td> <td><10</td> <td>Q</td>	1/29/92	SPA	8010	<5.0	ŀ	<5.0	<5.0	<5.0	<5.0	29	11	<5.0	<10	Q
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SPA 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	SPA 8010 < 0.5 < 0.5 1.1 < 0.5 < 0.5 1.4 0.8 < 1.0 SPA 8010 < 0.5	7616711	SFA 1	0100	707	i	200) ·	3	3	3 (<u>.</u>	9.6	2	2
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SPA 8010 < 0.5 - < 0.5 0.6 0.8 94 17 1.0 < 1.0 SPA 8010 < 0.5 - < 0.5 0.8 < 0.5 0.8 < 0.5 < 0.5 SPA 8010 < 0.5 - < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 GTEL 8010 < 0.5 - < 0.5 1.2 < 0.5 1.1 < 0.5 < 0.5 GTEL 8010 < 0.5 - < 0.9 2.8 < 0.5 3.0 31 17 < 0.6 < 0.8 1	SPA 8010 < 0.5 - < 0.5 0.8 94 17 1.0 < 1.0 SPA 8010 < 0.5 - < 0.5 0.8 < 0.5 0.8 17 1.0 < 1.0 SPA 8010 < 0.5 - < 0.5 < 0.5 < 0.5 22 15 1.2 < 0.5 SPA 8010 < 0.5 - < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 <	5/4/93	SPA	8010	<0.5	Ī	<0.5	1.9	<0.5 5.0.5	0.7	48	∞	2.5	v V V	S
SPA 8010 < 0.5 < 0.8 < 0.6 0.8 < 0.6 < 0.6 SPA 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 SPA 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 GTEL 8010 < 0.10 < 0.9 < 0.8 < 0.5 < 0.5 < 0.6 < 0.0 GTEL 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.6 < 0.8 < 0.6	SPA 8010 < 0.5 < < 0.5 < 0.8 < < 0.5 0.8 < < 0.5 SPA 8010 < < 0.5 < < < > < < > < < < < > < < < < < > < < < < < < < < < < < < < < < < < < < <	1/5/94	SPA	8010	<0.5	!	<0.5	4.0	<0.5	8.0	9	17	0.1	V1.0	S
SPA 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 <	SPA 8010 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 1.2 < 0.5 SPA 8010 < 0.5 < 0.5 1.2 < 0.5 1.3 46 14 1.1 < 0.5 1 GTEL 8010 < 0.5 < 0.9 2.8 < 0.5 3.0 31 17 < 0.5 1.0 GTEL 8010 < 0.5 < 0.9 < 2.8 < 0.5 3.0 31 17 0.6 < 0.8 1 GTEL 8010 < 0.5 < 0.5 1.7 < 0.5 3.2 26 15 < 0.5 < 0.8	5/13/94	SPA	0108	<0.5	1	<0.5	8.0	<0.5	0.8	91	15	0.8	<0.5	Ż
SPA 8010 <0.5 - <0.5 1.3 46 14 1.1 <0.5 1 GTEL 8010 <1.0 - <1.0 1.8 <1.0 1.2 45 18 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	SPA 8010 < 0.5 < < 0.5 2.2 < < 0.5 1.3 46 14 1.1 < < 0.5 1 GTEL 8010 < < 1.0	10/27/94	SPA	8010	<0.5	i	<0.5	<0.5	<0.5	<0.5	23	51	7:7	<0.5	Ż
GTEL 8010 <1.0 - <1.0 1.8 <1.0 1.2 45 18 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	GTEL 8010 <1.0 <1.0 1.8 <1.0 1.2 45 18 <1.0 <1.0 GTEL 8010 <0.5 <0.9 2.8 <0.5 3.0 31 17 <0.6 <0.8 1 GTEL 8010 <0.5 <0.5 <0.5 <1.7 <0.5 <0.8 1	4/19/95	SPA	8010	<0.5	i	<0.5	2.2	<0.5	1.3	46	4	1.1	<0.5	ND
GTEL 8010 <0.5 - 0.9 2.8 <0.5 3.0 31 17 0.6 <0.8 1	GTEL 8010 <0.5 - 0.9 2.8 <0.5 3.0 31 17 0.6 <0.8 1 <0.5 1.7 <0.5 1.7 <0.8 1	30/9/11	GTE!	8010		ļ		-	Q	1.2	45	<u>×</u>		\ \ \	2
	GTEL 8010 <0.5 <0.5 <0.8 <0.8	476/06	מבנו	0108	2 4		200	, c	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9 0	,	2 5	90) ×	2 2
	GTEL 8010 <0.5 <0.5 <0.8	06/07/4	1315	00100	2	1		9	?	2	;	-	2	0.0	Ş
	GTEL 8010 <0.5 - <0.5 1.7 <0.5 3.2 26 15 <0.5 <0.8	96/01/01	ı	1	l	1	I,	1	ļ	ļ	l	ł	i	j	l

MW-18



Well	Date Sampled	Date Analytical 1,1- Sampled Lab Method DCF	Analytical	1,1-	1,2-	1,2- 1-1,2- 1,1- 1,1- 1,1- 1,1- 1,1- 1,1	6-1,2- aper	-1,1	1,1,1-	L	7 (100,100,1)	illet yvare, v	California	Other
i				3		37	a	474	-pbp	E .	ZE	ช้	o Ac	#Y0C <u>.</u> -
01 4054	9	, i		4	;			•	[
MW-13	06/17/5	1310	8010	<0.5 0.5	01	I	l	<0.5	2.5	4	53	3.2	<1.0	1
	0/18/0	73 E	0108	<0.7	13	ł	i	<0.5	1.5	4	47	2.8	<1.0	ł
	06/07/6	CLEL	8010	<0.7	5.8	1	i	<0.5	2.5	39	32	3.1	<1.0	ı
	12/28/90	SAL	8010	<0.5	1	8.0	22	<0.5	1.0	4	4	3.0	0 1 >	ł
	5/10/91	SAL	8010	<0.5	ı	2.0	12	×0.5	0	47	47		\ '\	4
	8/8/91	SAL	8010	<0.5	ł	-	. 4		-	7	, Y		07.	2 !
	10/22/01	₹d5	8010	201		-	ř			; ;	3 3	2'7	0'1'	Q N
	1/29/92	V D V	0108				67 0	, co	6 4	y,	<u>;</u>	2.7	<1.0	Q
	2017016	5 5	0100	?;	í	9.5	٥,5	0.00) ((7	4	3.0	01 >	g
	76/07/6	A L	0108	717	i	1.7	ន	<1.2	. 1.5		130	1.4	<2.5	ZOZ
	1123/92	SPA	8010	1.1	!	1.4	5.6	<0.5	1.0	61	38	3.3	<0.5	ND
	10/28/92	SPA	8010	<0.5	i	0.9	5.3	<0.5	1.1	4	24	2.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2
	5/4/93	SPA	8010	<0.5	l	2.5	8.7	0.5	1	6	3	0		Ž
	1/5/94	SPA	8010	<0.5	i	1.7	1.7	> 0 > :	4	40	¥			
	5/13/94	SPA	8010	<0.5	ı	~	,	, .	,	? \$	2	7 7	71.0	֚֓֞֞֝֞֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֟֝֓֓֓֓֟֝
	10/24/9433	V V	8010	05/	1		1 3			2 8	90	C.O.Y.	c'0'>	בר מבי
The state of the s	4/19/05	₹ 0.5	0108	,	}	201	5	2.5	200	Š, ć		000	, V	ZOZ
	50/9/11	Abandoned	0100	20/	I	200	6	COV	c'n>	130	670	<0.5	<0'2	ΩN
	CEMIT	PattoniiraV	!	!	l	ł	Į.	۱.	1	ı	J	i	i	ł
MW-19A	11/6/95	GTEL	8010	1.0	i	<1.0	110	<1.0	<1.0	160	1.500	<u> </u>	7	Ž
	4/26/96	GTEL	8010	<5.0	1	<5.0	140	<5.0	<5.0	200	060) \ \ \) (2 5
	10/10/96	GTEL	8010	√10	ı	< 10	110	<10	< 10	150	200	?	2.0	2
	4/22/97	GTEL	8010	<5.0	ı	7.1	8	9.1	<5.0	150	830	<5.0	0.8 V	22
				-					•			!		<u>.</u>
Trio Blank								-						
. AA	4/14/89	CCAS	8010	<1.0	. <0.5	1	1	<1.0	<1.0	<1.0	<1.0 <1.0	<2.0	ر د	İ
ē	7/31/89	CCAS	. 0108	<0.1	. <0.5	i	i	<0.1.	<0.1	V 0.1	V V V	V 0.5	207	
	12/8/89	GTEL	8010	<0.2	<0.5	I		<0.5	<0.5	<0.5	<0.5	<0.5	V 1 0	l
	3/21/90	GTEL	8010	<0.2	<0.5	1	i	<0.5	<0.5	<0.5	<0.5	<0.5	< 1.0	ł
	3/26/90	GTEL	8010	<0.7	<0.5	I	i	<0.5	<0.5	<0.5	<0.5	<0.5	< 1.0	l
	6/19/90	GTEL	8010	<0.2	<0.5	i	i	<0.5	<0.5	<0.5	<0.5	<0.5	< 1.0	ł
	9/21/90	GTEL	8010	<0.2	<0.5	1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ŀ
	12/28/90	SAL	8010	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 1.0	ı
	5/10/91	SAL	8010	<0.5	i	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0,5	<1.0	QN
	16/8/8	SAL	8010	<0.5	ŀ	<0.5	<0.5	<0.5	<0.5	<0.5	<0,5	<0.5	V V	, CIN
	11/27/91	SPA	8010	<0.5	i	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	ND'6
	1/29/92	SPA	8010	<0.5	.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	V 1.0	2
	3/26/92	SPA	8010	<0.5	ł	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	Ž
	7/23/92	SPA	8010	<0.5	ŗ	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	N
	10/28/92	SPA	8010	<0.5	!	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	Q
	5/4/93	SPA	8010	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7	ND.
	11/6/95	GTEL	8010	<1.0	ı	<1.0	<1.0	~1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Q



Table 2.	Analytical Re	sults for Groun	Table 2. Analytical Results for Groundwater - Halogenated Volatile	nated Volatile	Organic C	- spunoduo;	Former Che	Theyron Asphalt Plant & Terminal	ilt Plant &	Terminal #	10010A7 E	067 Emergina) 1:62 min	,
Well	Date	Analytical	Analytical	-17	1.2-	1.1.2		-		TOTAL MAIN	1001001	TILOT YVILLO,	California	ပ၂
8	Sampled	Lab	Method	DCE	DCE	DCE	DCE	DCA	TCA	TCE	PCE	CF	VC	Other HVOCs
									oda					
Bailer Blank														
BB	5/10/91	SAL	8010	<0.5	ı	<0.5	\$0×	\$ 0 ×	× 0 /	× 0 /	3 0/	,	;	
	8/8/91	SAL	8010	50 2	ı	¥ 6	200) \ () \) \ \ \ \) \ / \	C .	0.0	0.1.	Q
	10157711	443	0100	,	ŀ	?	?	7	C.D.	() V	\ \ \ \ \ \	~0.5	0.TV	ΩZ
	17/17/17	Sr.A	90108	C.0.>	1	<0.5	<0.5	^0.5	<0.5	<0.5	<0.5	<0.5	\ \ \	202
	1/29/92	SPA	8010	<0.5	i	<0.5	<0.5	<0.5	<0×	V0 V	20	0		9
	3/26/92	SPA	8010	<0.5	ı	50>	¥ 0 ×	¥ 0 /	, v) \ \ \ \) \ \ \ \	7 '	2.	2
	7/23/92	SPA	0108	\$ 0 >	ļ	, v	9 0) \ () \	2 4	,	C \	C'0') V	Q.
	00,00,01				1	?	200	۸ 5		ر ک ک	~0.5	^0	\ \ \ \ \ \	<u>-</u> 2
	76/97/01	SPA	0108	<0.5	i	<0.5	<0.5	<0.5	<0.5	50 2	50 2	V 0 V	· \	2
	5/4/93	SPA	8010	<0.5	ı	<0.5	<0.5	507	V	* 0 /	201	9 0	?	2 !
						1		?) /	2	?	7	7	LON LON



Table 2. Analytical Results for Groundwater - Halogenated Volatile Organic Compounds - Former Chevron Asphalt Plant & Terminal #1001067, Emeryville, California (continued)

NOTES: (continued)	 0.9 ppb trans-1,3-dichloropropane detected; other HVOCs not detected; sample contained 810 ppb total dissolved solids. 0.9 ppb trichlorofluoromethane and 1 ppb trans-1,3-dichloropropane detected; other HVOCs not detected. 11 ppb trans-1,3-dichloropropane detected: other HVOCs not detected. 	Monitoring well was destroyed during excavation in 1989. O.1 ppb 1,2-dichlorobernzene detected; other thousand the detected. Well MW-9 was not sampled after \$110/91 heaves footif not be located.	available for inclusion in this report. 1.8 ppb 1,2-dichlorechine detected, other HVOCs not detected	2 ppo 1,1,2,2-fethachiorocume detected; other HVOCs not detected. B 0.9 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.	0.3 ppp 1,2-dichlorobentane detected; other HVOCs not detected. 3.1 ppb 1,2-dichlorobenzene detected; other HVOCs not detected.	¹⁵ 0.9 ppb 1,2-dichloroethane detected; other HVOCs not detected. ¹⁶ Trace concentrations of trihalomethane compounds detected in bailer blank.	1,1,2,2-Tetrachloroethane detected at 1.8 ppb; other HVOCs not detected at detection limits of 1.2 to 2.5 ppb. Other HVOCs not detected at detection limit of 0.5 ppb.	Other HVOCs not detected at detection limits ranging from 0.8 to 1.7 ppb. Other HVOCs not detected at detection limits of 25 ppb.	22 Well MW-12 could not be located after building demolition. 23 Well MW-12 could not be located after building demolition. 24 Well MW-8 was obtaineded therefore account was a security.	.A A A A	Well obstructed. Other HVOCs not detected at detection limits of 0.5 to 1.0 ppb.	monitoring 31 Other HVOCs not detected at detection limits of 10 to 20 ppb.
	1,1-DCE = 1,1-Dichloroethene 1,2-DCE = 1,2-Dichloroethene 1,2-DCE = trans-1,2-Dichloroethene c-1,2-DCE = cis-1,2-Dichloroethene	1,1-DCA = 1,1-Dichloroethane 1,1,1-TCA = 1,1,1-Trichloroethane TCE = Trichloroethane	PCE = Tetrachloroethene CF = Chloroform VC = Vinal Chloride	Other World Smoother Halogenated Volatile Organic Compounds on by Paris are billion	- Not analyzed/not applicable	ND = Not detected at detection limits of 0.5 to 1 ppb D = Duplicate analysis	ANAL YTICAL METHOD;	VOC = EPA Method 8010 for Volatile Organic Compounds	ANALYTICAL LABORATORIES:	CCAS = Coast to Coast Analytical Services of San Luis Obispo, California. GTEL = Groundwater Technologies Environmental Laboratory of Concord, California SAL = Superior Analytical Laboratory of Martinez and San Francisco, California SPA = Superior Precision Analytical, Inc. of Martinez and San Francisco, California		Analytical results prior to April 19, 1995, were compiled from the quarterly groundwater monitoring

5161voc.1qm

6 ppb 1,2-dichloropropane detected; other HVOCs not detected.

0.6 ppb 1,2-dichloroethane detected; other HVOCs not detected.

63 ppb chloromethane and 0.6 ppb methylens chloride detected; other HVOCs not detected;

sample contained 1,250 ppb total dissolved solids.

Chloromethane was detected at 2.4 ppb. Other HVOCs not detected at detection limits of 0.5 ppb. Chloromethane was detected at 0.6 ppb. Other HVOCs not detected at detection limits of 0.5 ppb. Other HVOC's not detected at detection limits of 0.5 to 5.0. Other HVOC's not detected at detection limits of 0.5 to 5.0. 2 2 2

Detection limits raised due to sample dilution.

9

Table 2. Analytic Results: Groundwater Former Chevron Asphalt Plant Emeryville, California WGR Project #1-045.45

** 1.2 mes/ 1 me.	6474	F.477.154	Toluera	E-Benzere	Xyleres	TPPH(G)	5730	Total	Total	Total	Total	
#11		:		X	,	A	<-udd->	5 · · · · · · · · · · · · · · · · · · ·	8		^	
MH-13	21 Har 90	<0.3	<0.3	-	5	480,	-	0\$>.	<100	Ĉ.	×100	
MW-14	22 Mar 90	<0.3	<0.3	9.4	~	170	⊽	<50	<100	ν./	× 100	
HW-15	21 Mar 90	<0.3	<0.3	<0.3	9.0>	<50	⊽	<50	<100	/ &	<100	
MV-16	26 Mar 90	<0.3	<0.3	<0.3	<0.6	<50	⊽	<50	0099	45	240	
NW-17	26 Mar 90	<0.3	<0.3	<0.3	9.0>	450	-	26	2600	150	1020	
MW-18	26 Mar 90	<0.3	<0.3	<0,3	9.0>	<50	ু ⊽	340	20,000	140	2900	
MW-19	26 Har 90	<0.3	<0.3	<0.3	<0.6	<50	⊽	<50	1600	30	420	
TB	21 Mar 90	<0.3	<0.3	<0.3	<0.6	<50						
18	26 Mar 90	<0.3	<0.3	<0.3	40.6	<50	⊽)		\	
	,										1	

l ant		
Chevron Asphalt Plant	rnia	.45
on Asp	Californi	JGR Project #1-045.45
Chevr	ille,	o)ect
Former (Emeryy	VGR Pr

Well 10#	Date Sampled	1,2-DCE	1,1-DCA	Chloroform	1,2-DCA ppb	1,1,1-TCA	TCE	PCE
1 m	21 Mar 00	<0.5	<0.5	<0.5	<0.5	<0.5	. <0.5	<0.5
7H I D	22 Nar 90	\$*0 >	<0.5	<0.5	5°0>.	<0.5 5.0	<0.5	<0.5
2	, C	<0.5	<0.5	×0.	6.5	<0.5	<0.5	<0.5
C	24 Har Of	8.0	<0.5	2.0	1.0	<0.5	27	ఐ
OI - MW	. Of last 02	5.2	0.7	7	9.0	1.3	32	*-
71.71 11.	04 IBW 07		6.5	6.0	<0.5	2.4	33	20
M4-18	25 MBF 90	10	.0	3.2	<0.5	2.5	41	53
٠	21 Mar 90	5.0>	60.5	<0.5	<0.5	<0.5	<0.5	<0.5
8 E	26 Mar 90	<0.5	\$0.0	<0.5	<0.5	<0.5	0.5	<0.5

NOTES:

ppb = Parts-Per-Billion
ppm = Parts-Per-Million
E-Benzene = Ethylbenzene
TPPH(G) = Total Purgeable Petroleum Hydrocarbons characterized as gasoline
O&G = Oil and Grease
1,2-DCE = trans-1,2-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene

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Compound	Detection Limit (ppb)	MW-1 (ppb)	MW-4 (ppb)	MW-5 (ppb)	(qdd)	MW-10 (ppb)	MW-11 (ppb)	MW-12 (ppb)	1
Volatile Organics in water: (EPA Method 624)					-		,		!
Benzene	מו	55	QN	S S	Q.	Q	Q.	Q.	
1,2-dichloroethene	ις	1050	Q.	S	Q	23	180	Trace	
Trichloroethene	, CJ	45	2	Q	9	ĸ	Trace	2	
Vinyl Chloride	ĸ	260	Q	ND	QN	Q	Q	Q.	
Metals: (Tille 22 Metals in Aqueous Solution)	lutíon)	٠.							
Baríum	10	640	. 1	1	I	I	I	I	•
Molybdenum	9	30	1	1	t	ī	ł	ŀ	
Nickel	20	30	ı	1	I	1	t	:	
Zinc	50	40	t	ı	ı	•	ì	ï	
Total Petroleum Hydrocarbons: (EPA Method 3510/8015)	·					,			
Gasoline Other ²	100	400 ND	ND 2000	UN 1700	008 800	2 2	<u>8</u> 8	Q Q	
	••								

Analytes and sampling locations presented only where detectable levels were present.

Quantifications based on largest peaks within C11 to C15 boiling range.

ND Not detected above detection limit

Not analyzed

ppb Parts per billion (g/l for water and g/kg for soil)

Table 1. Summary of Volatile Organics Analytical Results for Well MW-1 1520 Powell Street Emeryville, California

	Sampled by McKesson Environmental 4/26/85 (µg/1)	Sampled by Blaine Technical Services 9/11/87 (µg/l)	Sampled by HLA 7/7/88 (µg/l)
Benzene	99	63	55
Chlorobenzene	20	ND(10)	ND(5)
1,1-dichloroethene	3	ND(10)	ND(5)
Trans-1,2- dichloroethene	1,200	700	1,050
Trichloroethene	160	ND(10)	45
Vinyl chloride	1,500	990	560

Detection Limit expressed as $\mu g/l$ in parenthesis.

ND = Not Detected.

Table 3-4. Summary of Volatile Organic Compounds Detected in Monitoring Well MW-1, Former Chevron Asphalt Plant, Emeryville, California.

	Sampled by McKesson Environmental 4/26/85 (µg/L)	Sampled by Blaine Technical Services 9/11/87 (µg/L)	Sampled by HLA 7/7/88 (µg/L)	Sampled by Sierra 4/17/92 (µg/L)
Benzene	99	63	55	19
Chlorobenzene	20	ND	ND	ND
1,1-Dichloroethene	3	ND	ND	ND
trans-1,2-Dichloroethen	e 1,200	700 .	1,050	26
Trichloroethene	160	ND	45	ND
Vinyl chloride	1,500	990	560	260

ND Not detected.

μg/L Micrograms per Liter.

Maximum Off-Site Ground-Water Concentrations, Former Chevron Asphalt Plant, Emeryville, California. Table 3-3.

Constituent	Concentration (mg/L)	Monitoring Well
Benzene	0,021	MW-16
Chloroform	0.003	MW-19
cis-1,2-Dichloroethene	0.023	MW-19
trans-1,2-Dichloroethene	0.0017	MW-19
Ethylbenzene	0.0095	MW-16
Tetrachloroethene	0.13	MW-19
Toluene	0.027	MW-16
TPH as gasoline	0.27	MW-16
1,1,1-Trichloroethane	0.0015	MW-19
Trichloroethene	0.13	MW-18
Xylenes	0.041	MW-17

mg/L TPH

Milligrams per liter.
Total petroleum hydrocarbons.

Maximum On-Site Ground-Water Concentrations, Former Chevron Asphalt Plant, Emeryville, California. Table 3-2.

,	Concentration	Monitoring
Constituent	(mg/L)	Well
Benzene	0.019	MW-1
1,1-Dichloroethane	0.0028	MW-10
1.1-Dichloroethene	0.0007	MW-10
cis-1,2-Dichloroethene	1.9	MW-1
trans-1,2-Dichloroethene	0.033	MW-11
Ethylbenzene	0.0012	MW-1
Toluene	0.0026	MW-15
TPH as gasoline	0.42	MW-1
Trichloroethene	0.0074	MW-1
Vinyl chloride	0.26	MW-1
Xylenes	0.004	MW-1

Milligrams per liter.

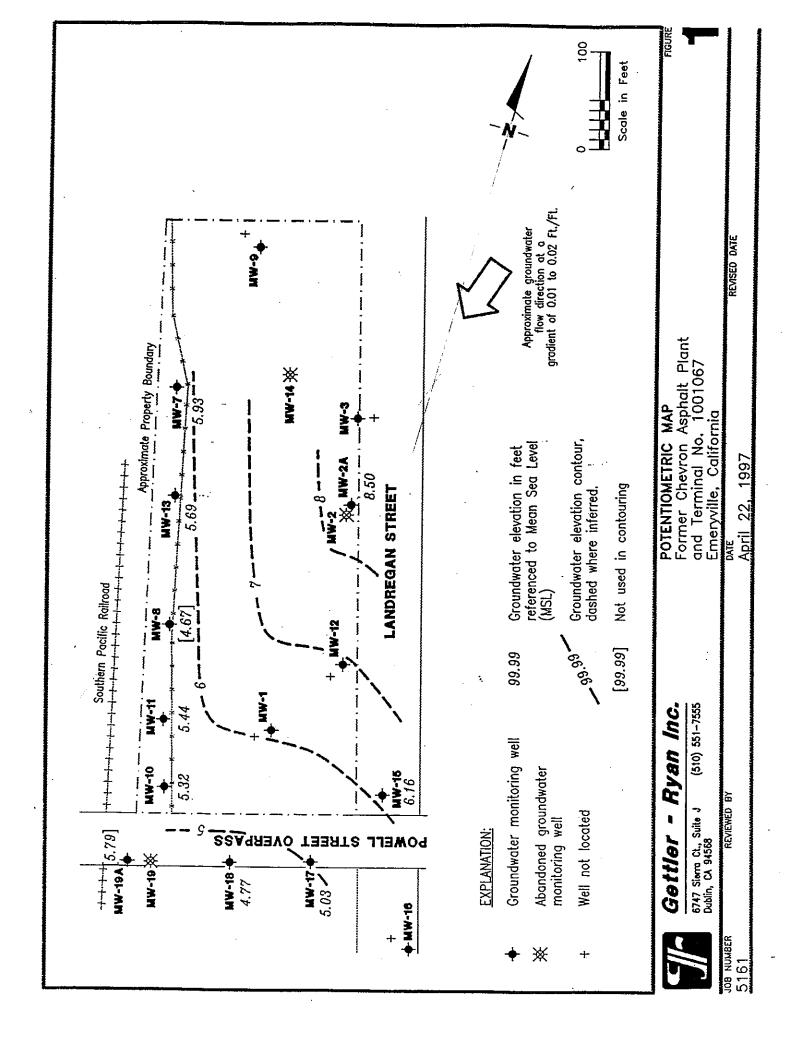
Total petroleum hydrocarbons. mg/L

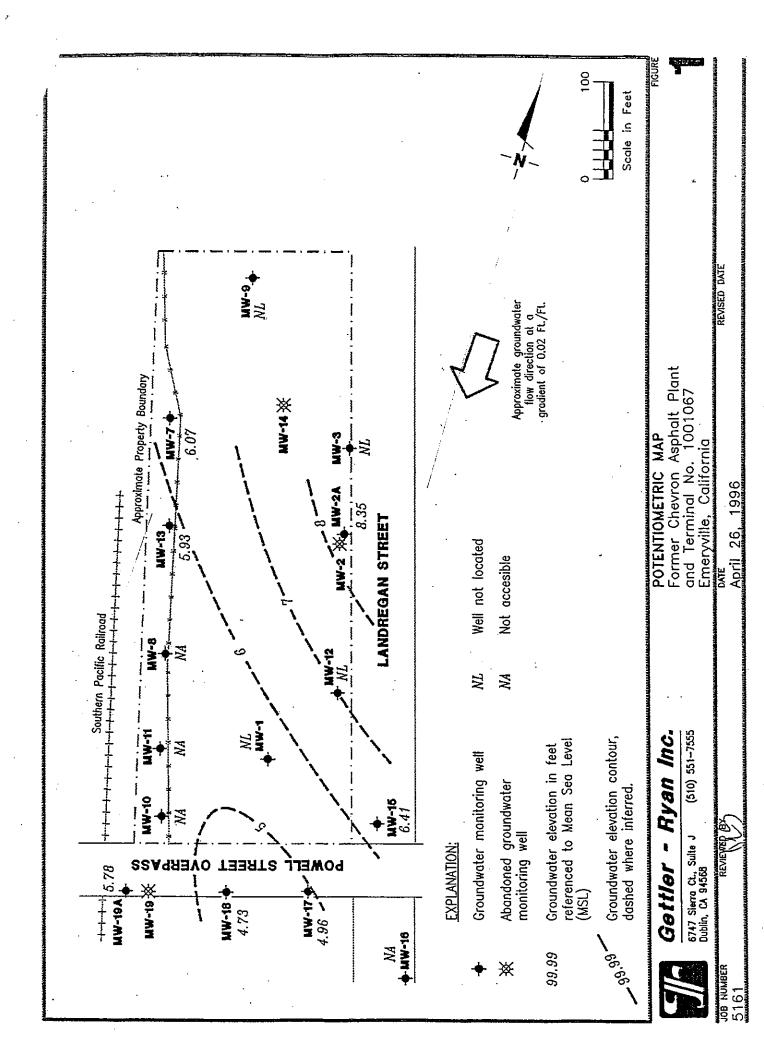
TPH

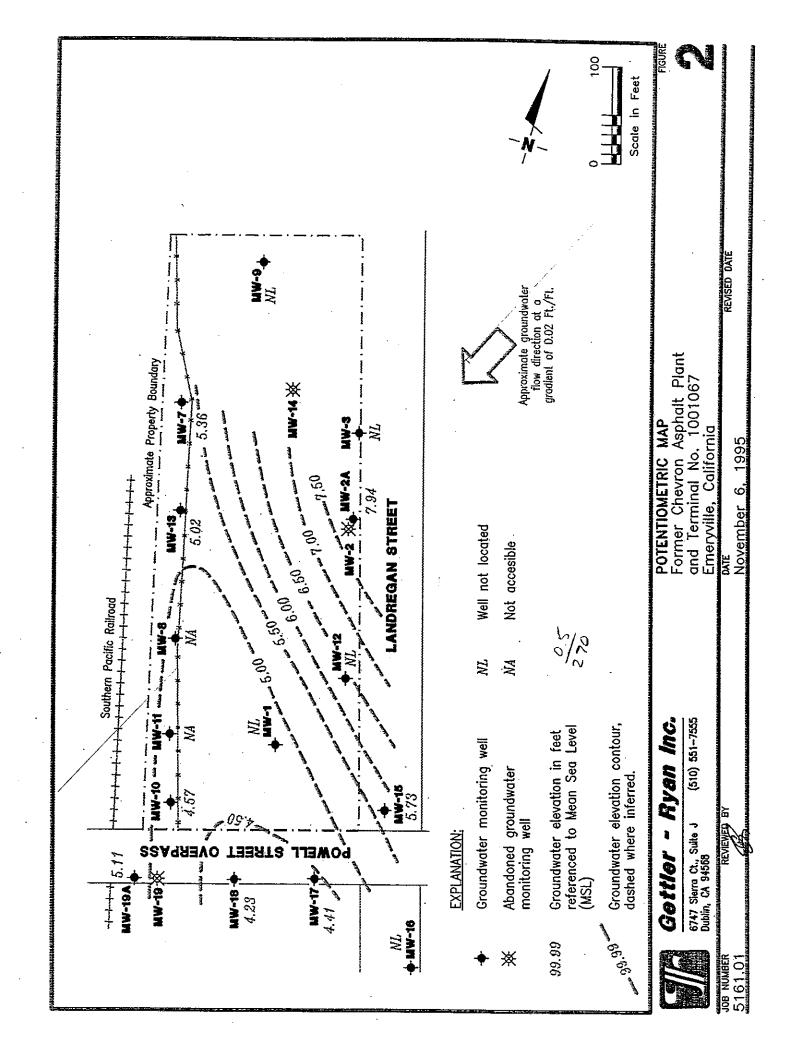


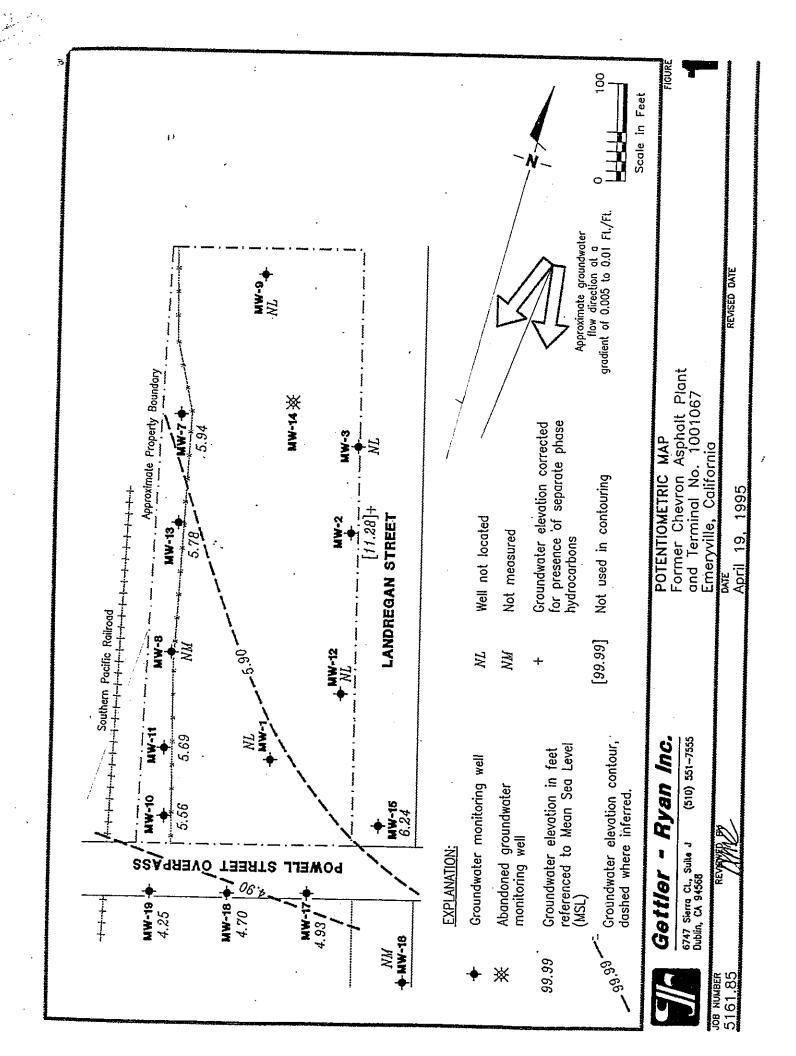
Table 1. Water Level Data and Well Construction Details - Former Chevron Asphalt Plant and Terminal #1001067. Emeryville,

								`
Well ID	Date Measured	WTG (ft)	70Cr (ft)	GWE (ms!)	Product Thickness ²	Screen nterval ³	Sand Pack Interval ³	Bentonite/Grout
NATA/_1	4 7 1 0 7 0 0				(April	\\	feet below grade	
T - AA FAT	4/13/89 7/31/80	3.72	10.67	6.95				
	17/0/09	27.5	10.67	4.95	1	1.0 - 11.5	1 - 12	(- 0
	12/8/89	4.80	10.67	5 A7				4 .0
	3/21/90	4.74	10.67	203	ł			
	6/19/90	4.75	10.67	5 6	;			
	9/20/80	5.07	10.67	0.92 0.92				
	12/28/90	4.91	10.67	0.00	:			
	5/10/91	5.30	10.67	5.37	; 6	٠		
MW-2	00/01/1	•			>		-	
1	89/01/4	2.62	13.78	2				
	7/31/89	4.63	13.78	11.0	•	2 - 12	1 - 12	
•	12/8/89	5.98	13.78	7 9.13	:			T-0
	3/21/90	5.85	13.78	00.7	;			
	06/61/9	7. 7.	10.70	7.93	:	-		
	9/20/90	98	07.07	7.83	:			
	12/28/90	0.0	13.78	6.92	•			
	5/10/91	* 60° 5	13.78	7.44	•			
	40.754.71	08.0	13.78	7.82	0			
ММ-3	4/13/89	2.34	11 30				•	
	7/31/89	7 7	11.73	9.39		2 - 19		
	12/8/89	0.0	99.50		:	1	71 - 12	0 - 1
	3/91/00		99.50	:	;			
	6/11/30	2.55	11.73	9.18	:	-		
-	08/81/9	2.76	11.73	8.97				
	08/02/6	4.43	11.73	7 30			-	
	12/28/90	3.67	11.73	90: X	! .	•		•
	5/10/91	2.83	11.73	9.90	; 5			
					>			
MW-44	4/13/89	2.12	99.86	į	;	2 - 19	-	
M/11/ E4	007 017 7	i				3	21 - 1	0 - 1
C-M IAI	4/13/89	2.79	98.53	ľ		2 - 12	. 10	
MW-64	4/13/89	1 90					. 77	0 - 1
		5	88,03	:	;	2 - 12	1. 10	,









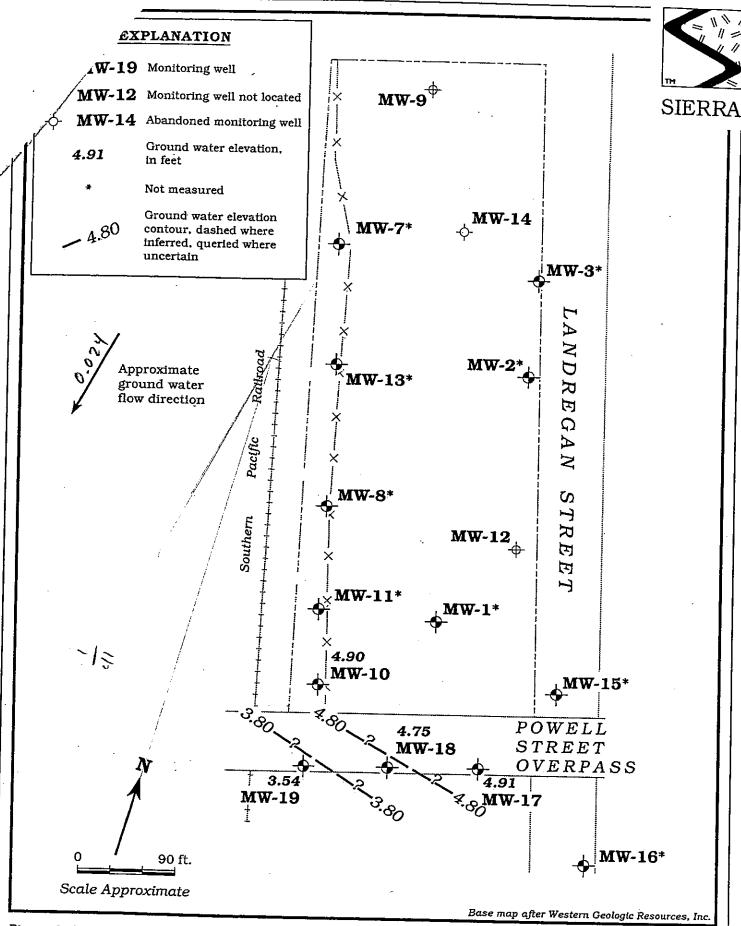


Figure 1. Monitoring Well Locations and Ground Water Elevation Contours - January 5, 1994 - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

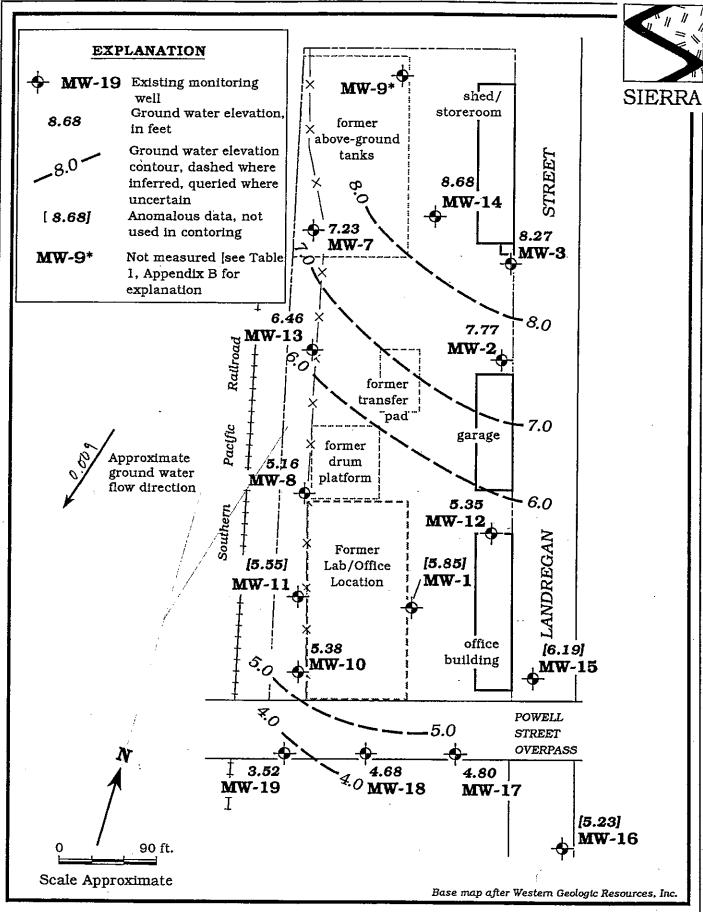


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours – January 29, 1992– Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

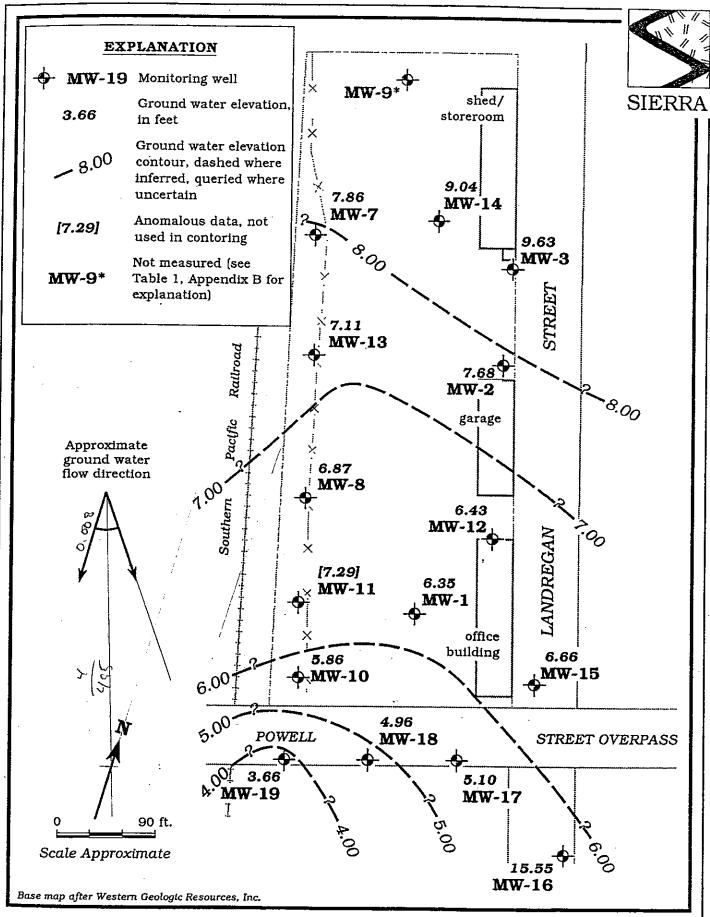


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - March 26, 1992 - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

EXPLANATION MW-19 Monitoring well MW-9 SIERRA Ground water devation. 3.23 in feet Cround water elevation , 1,00 contour, dashed where interred, queried where uncertain 7.48 Not measured (see MW-14 Table 1. Appendix B for explanation) 7.19 √ MW-3 MW-7 7.00 × 6.03 STREET 6.39 5.00 MW-13 Railroad Approximate ground water flow direction 5.40 Southern MW-8 5.19 5.25 MW-11 5.97 MW-15 ell street overpa 4.31 4.44 3.23 MW-18 MW-17 MW-19 4,82 MW-16 90 ft. Scale Approximate Base map after Western Geologic Resources, Inc. Figure 2. Monitoring Well Lecations and Ground Water Elevation C Jours - July 23, 1992 - Former

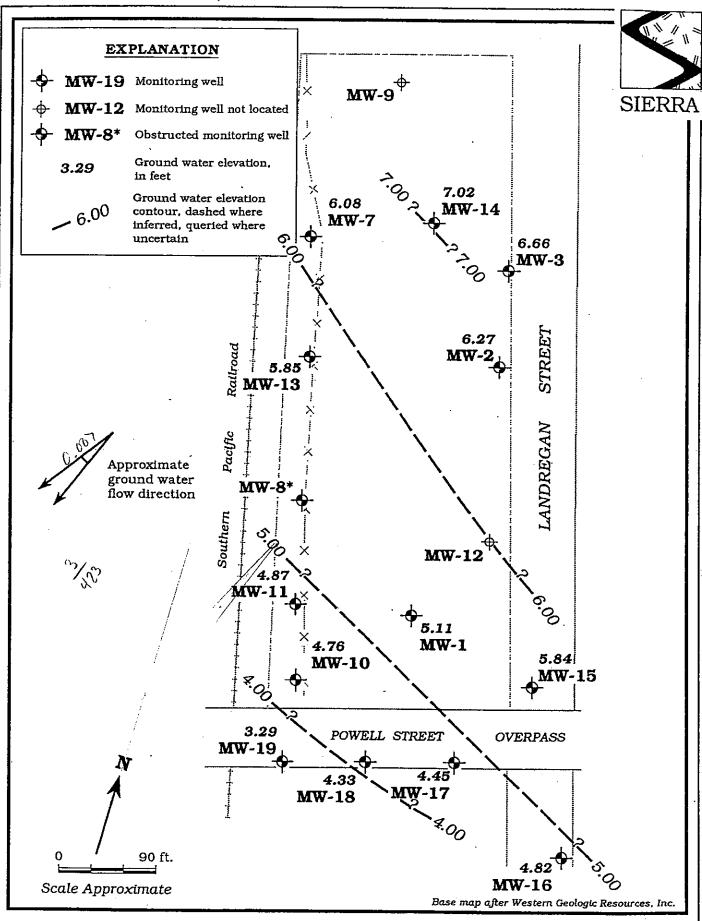


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - October 29, 1992 - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

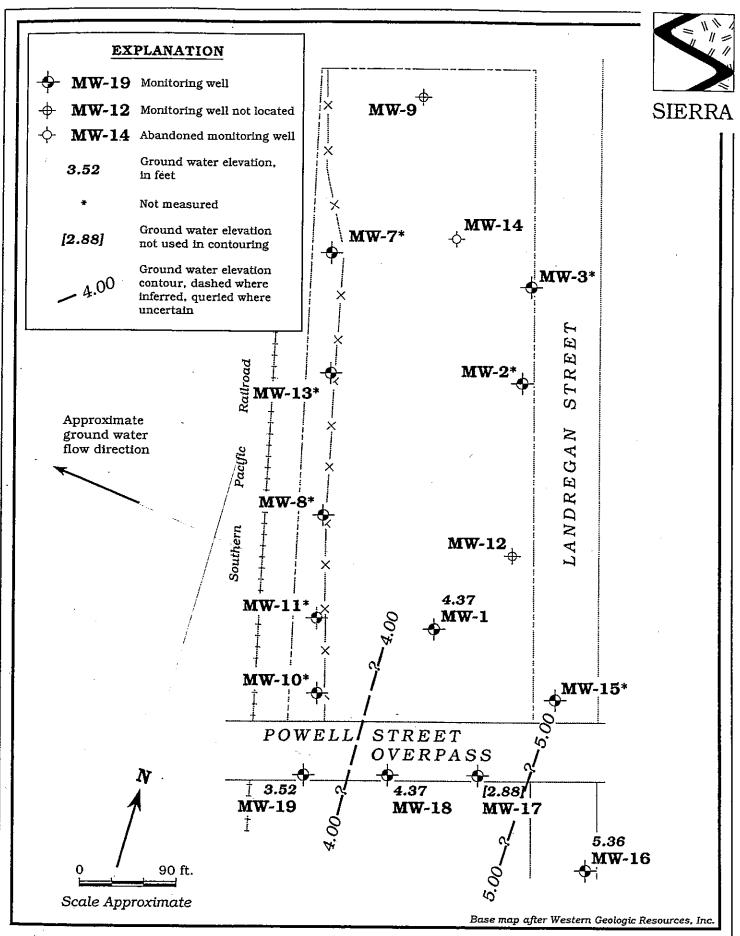


Figure 1. Monitoring Well Locations and Ground Water Elevation Contours – May 4, 1993 – Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California

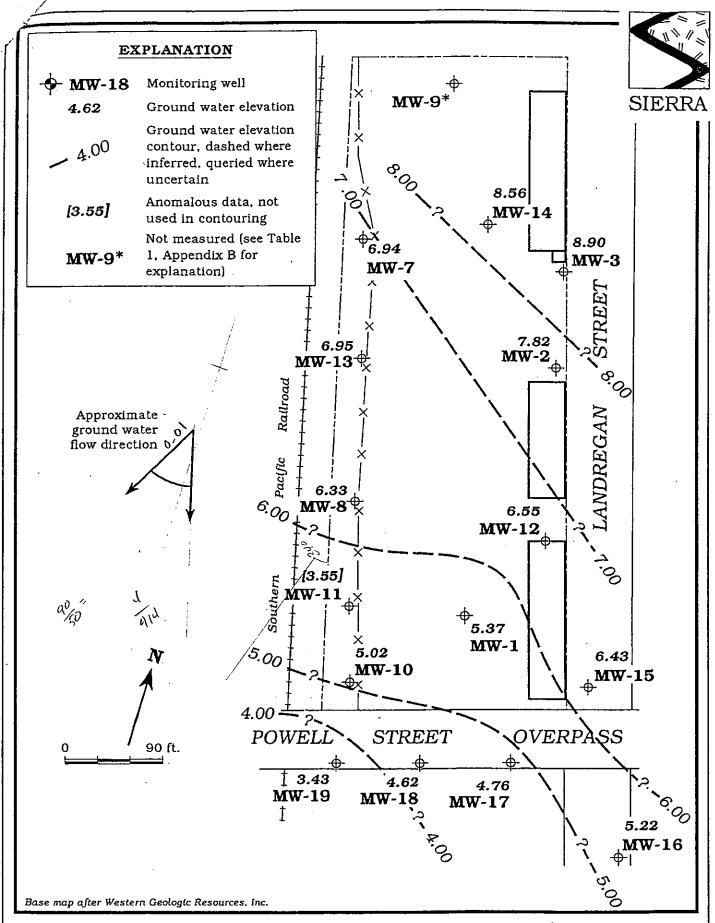
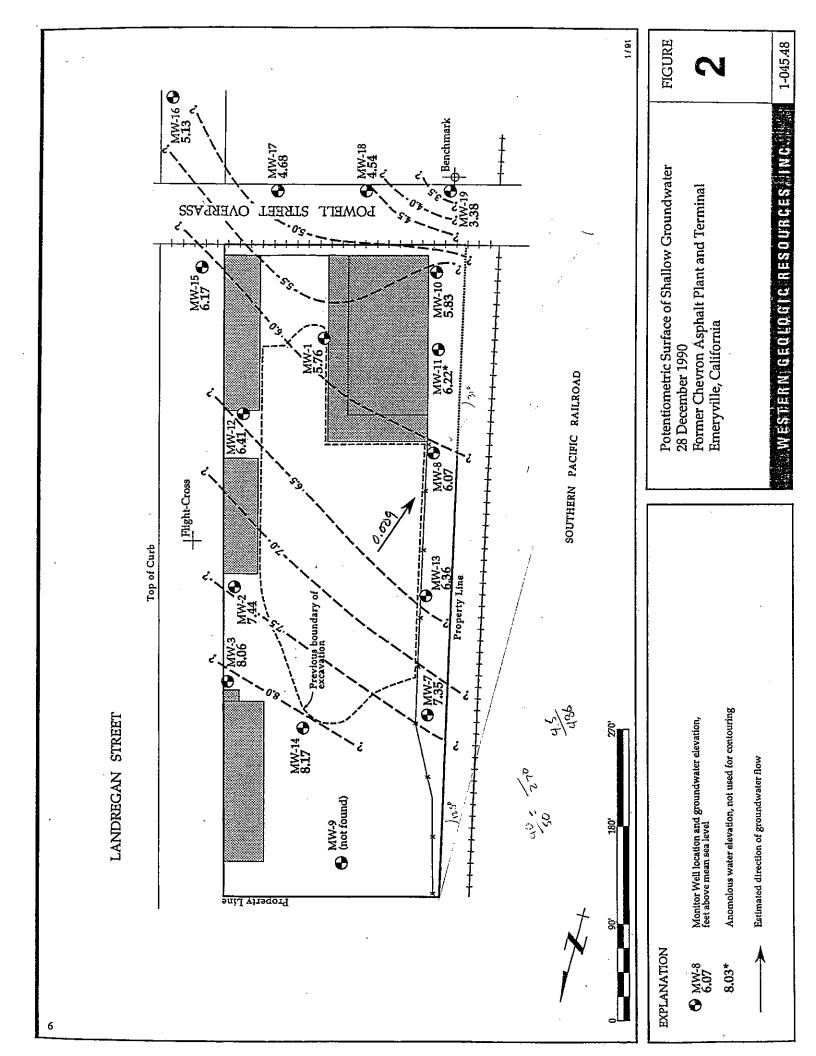


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - May 10, 1991 - Former Chevron Asphalt Plant and Terminal #1001067, Emeryville, California



CAMBRIA

Attachment D

Soil Tables and Boring/Well Logs

Table 3. Selected 1520 Povzell Street Soll Analylical Results

:-4 :\;

Sample Location

		Composite 1	Composite 2	Composite			
Compound	Detection Limit (ppm)	S-1, S-2, S-3 S-4, S-5, S-6 (ppm)	S-7, S-9 S-9, S-10 (ppm)	S-11, S-12 S-13, S-14 (ppm)	S-15 (ppm)	S-17 (mpd)	S-18 (ppm)
Volatile Organics in Soli: (EPA Method 6240)				WOOD TO THE TOTAL OF THE TOTAL			
Trichloroethene Total Xylenes	0.5	<u>Q</u> Q	ON O	N 1.1	2 9	<u>+</u> 8 Ծ. 0	+: N
Total Petroleum Hydrocarbons: (EPA Method 3550/8015)							
Other ²	40	70	100	840	7,500³	Q	QN

Analytes and sampling locations presented only where detectable levels were present.

Quantification based on largest peaks within C6 to C15 boiling range.

³ Computer generated mass spectral data library search (match probability) identified this sample as: pentane; trans-1,3-dimethyl cyclopentane; methyl cyclohexane; 1,1-dimethyl cyclohexane; 1,4-dimethyl cyclohexane; cis-1-ethyl-2-methyl cyclopentane and 1,1,3-trimethyl cyclohexane.

ND Not detected above detection limit

ppm parts per million (g/l for water and g/kg for soil)

¹ Surface Soil Sample #1 as shown on Plate 2.

Chevron/Powell December 1988

In general, previous soil sample analytical results indicate that the soils at the site have been impacted with gasoline and diesel hydrocarbons, TCE, and a variety of solvent and thinner constituents. The bulk of the significantly hydrocarbon-impacted soils are located in areas 2, 3 and 5. TCE contamination was primarily limited to area 4. Table 1 presents a brief summary of the previous soil sampling results.

TABLE 1
SUMMARY OF SOIL SAMPLE RESULTS AS PREVIOUSLY INVESTIGATED*

	MMAKI OF BO			
LOCATION	DATE	SAMPLE DEPTH (ft)	SAMPLE TYPE	RESULTS/ RANGE OF RESULTS
Area 1	July '88	3.0	Composite	70 ppm TPH
Area 2	July '88	3.0	Composite	100 ppm TPH
Area 3	July '88	3.0	Composite	840 ppm TPH
Area 3- Center	July '88	3.0	Grab	7500 ppm TPH gasoline
Area 3	Sept '88	3.0	Composites	490 to 1700 ppm - TPH-Diesel
Area 3	Sept '88	5.0	Composites	640 to 2100 ppm - TPH-Diesel
Area 4	Aug '88	3.0	Grab	1400 to 1500 ppb - TCE
Area 5	Oct '88	3.0	Grab	160 to 2000 ppm - TPH-Diesel
Area 5	Oct '88	5.0 - 6.0	Grab	310 to 2700 ppm - TPH-Diesel
Area 5	Oct '88	5.0 - 6.0	Grab	160 ppm TPH

ppm = parts per million

ppb = parts per billion

TPH = Total Petroleum Hydrocarbons

TCE = Trichloroethene

^{* =} Data taken from referenced reports.

TABLE 1. Analytic Results For Composite Soil Samples 1520 Powell Street Emeryville, California

Bore Holes	Depth (ft.)	Date.	TFH <	FC				E-Benzene
B-1 to B-5		7 Sep 88 7 Sep 88			<0.3 0.5	<0.3 0.5	<0.3 <0.3	<0.3 0.9
B-6 to B-10		7 Sep 88 7 Sep 88			<0.3 0.5	<0.3 <0.3	<0.3 <0.3	<0.3 0.5
B-11 to B-1		Sep 88			0.3 0.6	<0.3 1.3	<0.3 <0.3	5.4
B-16 to B-2	0 3.0 07 5.0 07	Sep 88	1700 2100			6.1 1.3	1.4 7.8	- - -

Notes:

Xylenes = Sum of xylene isomers

E-Benzene = Ethyl benzene TFH = Total fuel hydrocarbons

FC = Fuel characterization

D = Diesel

o = oil

G = Gas

--- = Not characterized

METHOD(S) = EPA 8015/8020

TABLE 2 Analytic Results For Soil Samples 1520 Powell Street Emeryville, California

	Bore			Date		TFH					E-Benzene
	Hole	(ft.))			<			ppm		>
DE INDITION O	B-21		20	Sep	00	<10		<0.3	<0.3	<0.3	<0.3
	B-21			Sep		<10		<0.3	<0.3	<0.3	<0.3
3777	D-21		30	Dep	00	110		10.0	10.5	10.5	10.3
Y88,1831	B-22	3	30	Sep	88	93	D	<0.3	<0.3	<0.3	<0.3
	B-22			Sep		<10		<0.3		<0.3	
記記				-							
1	B-23			Sep		<10		<0.3			
Devies	B-23	, 5	30	Sep	88	<10		<0.3	<0.3	<0.3	<0.3
37.257		_		~					40.0	40.0	
7777	B-24			Sep		<10		<0.3	<0.3 <0.3	<0.3 2	<0.3
	B-24	5	30	Sep	00	310	D	<0.3	~0.3	4	<0.3
N. P.	B-25	3	30	Sen	88	1800	D	<0.3	<0.3	7	<0.3
	B-25					2700	Ď	<0.3	<0.3	20	<0.3
								•			
Y	B-26			Sep		210	D	<0.3	<0.3	2	<0.3
	B-26	5	30	Sep	88	1000	D	<0.3	<0.3	4.2	<0.3
2 C C C C C C C C C C C C C C C C C C C	-					0.40	-	40.0		5 4	40.0
	B-27			Sep		840	D	<0.3 <0.3	<0.3 <0.3	7.4 16	<0.3 <0.3
	B-27	5	30	sep	88	1900	D	. <0.3	<0.3	10	. <0.3
S EG	B-28	3.5	30	Sep	88	240	D	<0.3	<0.3	2.5	<0.3
	B-28			Sep			Ď	<0.3	<0.3	1.3	<0.3
				•			٠.				
		3.5					D	<0.3	<0.3	1.4	
	B-30	5.5	30	Sep	88	1700	D	<0.3	<0.3	6.2	<0.3
				a		4.50	210	10.0	10.0	10.0	40.0
	B-31			Sep		460	D+0	<0.3			
	B-31	5.5	30	seb	00	1000	D+0	<0.3	<0.3	2.6	\0.3
<u> </u>	B-33	3	30	Sep	88	2000	D+G	0.7	<0.3	9.6	<0.3
	B-33			Sep		830	D+G	<0.3	0.9	4.2	<0.3
प्राप्ति संसीप		_							,- ,-		
とのから	B-34	3.	30	Sep	88	<10		<0.3	<0.3	<0.3	<0.3
	B-34	5	30	Sep	88	2700	D+G	0.9	<0.3	12	<0.3
25/7/											
	B-37	3	30	Sep	88	1100	Ð	<0.3	<0.3	5.4	<0.3
	D 20	_	20	C		000	D.C	0.5	0.0		40.3
<u>Failly</u>	B-38	٦	30	seb	88	990	D+G	0.5	0.9	2.2	<0.3
	B-40	Δ	30	Sep	88	180	0	<0.3	<0.3	<0.3	<0.3
1 CO 1 CO 1	B-40			Sep		<10		<0.3			
		•		F	- •						
	B-41	5	30	Sep	88	430	G	<0.3	<0.3	4.7	<0.3
() () ()	B-41			Sep		160	G	<0.3	<0.3	<0.3	<0.3
15.5											

Well/Sample 10#	Date	Depth	EPA	Benzene	Toluene	E-Benzene Xylene	Xylenes	TPH(G)	TPH(D)	080 *-pmd->
	2 Feb 90 2 Feb 90 2 Feb 90	18.0 23.0 29.0	8240/8015 8240/8015 8240/8015	0.00 0.00 0.00	40.02 40.02 40.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	666	555	. : : :
HU-13 HU-13 HU-13	2 Feb 90 2 Feb 90 2 Feb 90 2 Feb 90	3.5 5.5 13.0	8240/8015 8240/8015 8240/8015 8240/8015	6.6.6. 6.0.0.0	<0.02 <0.02 <0.02 <0.02	40.02 40.02 40.02 40.02	40.02 40.02 40.02 0.02	430 410 410	870 260 11 <10	;;;;
MU-14 MU-14 MU-14	2 Feb 90 2 Feb 90 2 Feb 90	5.5 11.0	8240/8015 8240/8015 8240/8015	60.01 60.01	40,02 40,02 40,02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	11 to 12 to	60 120 10	;;;
MW-15 MW-15	2 Feb 90 2 Feb 90	6.0	8240/8015 8240/8015	60.01 60.01	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	6 6	6 6 6 6	; ;
MW-16 MW-16	23 Mar 90 23 Mar 90	8.3 10.3	8020/8015 8020/8015	<0.005 <0.005	<0.005	<0.005 <0.005	<0.015	\$ \$	¢ 40 410	.ბ.ბ.
MU-17 MU-17 MU-17	21 Mar 90 21 Mar 90 21 Mar 90 21 Mar 90	4.8 7.3 12.8 8.3	8020/8015 8020/8015 8020/8015 8020/8015	<0.005 <0.005 <0.005 <0.005	<pre></pre>	40.005 40.005 40.005 40.005	60.015 60.015 60.015	6666 6666	\$250 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	4344
HV-18 HV-18 HV-18	22 Mar 90 22 Mar 90 22 Mar 90 22 Mar 90	4.8 7.3 9.3	8020/8015 8020/8015 8020/8015 8020/8015	40.00540.00540.005	0.0050.0050.0050.005	6.0056.0056.0056.005	0.0150.0150.0150.015	6666 6666	6666	ል ል ል ል
MV-19 MV-19 MV-19	22 Mar 90 22 Mar 90 22 Mar 90	5.8 10.3	8020/8015 8020/8015 8020/8015	<0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.005 <0.005 <0.005	<0.015 <0.015 <0.015	0 0 0 0 0	6 6 6 6	7
18	26 Mar 90								•	

Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California UGR Project #1-045.45

												-
Vell/Samplė 10#	Date	Depth	EPA Method	Acetone	1,2-DCE	1,1-pcE	Chloroform	1,2-DCA	1,1,1-TCA	TCE	PCE	
1-8-1	2 Feb 90 2 Feb 90 2 Feb 90	18.0 23.0 29.0	8240 8240 8240	40.05 40.05 40.05	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	40.02 40.02 40.02	<0.02 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	1
五 五 五 3 3 3 3	2 Feb 90 2 Feb 90 2 Feb 90 2 Feb 90	2.20 2.20 2.00 2.00 2.00	8240 8240 8240 8240	0.15 0.10 0.05 0.05	60.02 60.02 60.02 60.02	<pre>40.02 <0.02 <0.02 <0.02 </pre>	<0.02 <0.02 <0.02 <0.02 <0.02	<pre></pre>	60.02 60.02 60.02 60.02	<0.02 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02 <0.02	
HV-14 HV-14 MV-14	2 Feb 90 2 Feb 90 2 Feb 90	2.8 2.5 0.11	8240 8240 8240	6.00 80.00 80.00	60.02 60.02 60.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	
MJ-15 MJ-15	2 Feb 90 2 Feb 90	6.0	8240 8240	<0.05 <0.05	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	
MW-16 MW-16	23 Har 90 23 Har 90	8.3	8010 8010	: :	60.5 60.5	60.2	<0.5 <0.5	6.5 6.5	<0.5 <0.5	<0.5 <0.5	0.5 0.5	
MV-17 MV-17 MV-17	21 Mer 90 21 Mer 90 21 Mer 90 21 Mer 90	4.8 7.3 12.8	8010 8010 8010	::::	0000 8.8.8.8	2.00 2.00 2.00 2.00 2.00 2.00	0000 2000 2000	0 0 0 0 0 0 0 0 0	0.00 0.05 0.55	6.0.0.0 2.2.2.2	0,00 0,00 0,00 0,00	
MV-18 MV-18 MV-18 MV-18	21 Mar 90 21 Mar 90 21 Mar 90 21 Mar 90	7.3 7.3 11.3	8010 8010 8010	::::	0.000 2.000 2.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6 6.0 8.0 8.0 8.0 8.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,00,0 2,2,2,2	0,00 0,00 0,00 0,00	0 2.0 2.0 2.0 2.0	
MU-19 MU-19 HU-19	22 Har 90 22 Har 90 22 Har 90	5.8 8.8 10.3	8010 8010 8010		0 20 8 8 8	0°0°0°	0, 0, 2, 0, 5, 5, 5, 6, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	60 00 00 00 00 00 00 00 00 00 00 00 00 0	.0.5 .0.5 .0.5	0 0 0 0 0 0 0 0	0, 0,0, 7,0,0,	
18	26 Mar 90		·		-					•		

Analytic Results: Soil Former Chevron Asphalt Plant Emeryville, Çalifornia

Boring 1D :	. Date Sampled	TPH Gasoline	TPH Diesel	Total O&G	Petroleum O&G	Acetone	Methylene Chloride	2-Butanone	1,2-DCE	TCE	ı
EPA Method		8015	8015	413.2	418.1	8240	8240	8240	. 8240	8240	ı
SB-1	26 Mar 90	¢10	· 10	17		<100	\$	<100	\$	₽	ı
SB-2	26 Mar 90	<10	<10	27	;	<100	, \$	<100	v	۵	
S8-3	26 Mar 90	°10	×10	īU.	;	×100	₽	<100	\$	έÇ	
5-8S	26 Mar. 90	<10	<10	۲	;	<100	٨	<100	Ą	• \$	
SB-5	26 Mar 90	×10	<10	\$:	<100	Ą	<100	Ą	Ϋ́	
SB-6	26 Mar 90	<10	~10	49	:	<100	Ą	<100	, 1 5	· 10	
2-85	26 Mar 90	<10	4 0	5 1	:	<100	Ą	<100	Ą	Ą	
SB-8	26 Mar 90	<10	×10	12	:	<100	\$	<100	\$	γŞ	
SB-9	26 Mar 90	<10	<10	60		<100	\$	<100	٨	Ϋ́	
58-10	26 Mar 90	~10	<10	\$		<100		<100	÷	45	
SB-11	26 Mar 90	<10	· <10	750		<100	Ą	<100	Ą	∜	
SB-12	26 Mar 90	<10	. 01>	22	:	<100	\$	<100	₽	Ą	
SB-13	26 Mar 90	<10	· <10	\$:	<100	₽	<100	₽	Ą	
SB-14	26 Màr 90	1 0	<10	Ŷ.	•	<100	Ą	<100	\$	Ą	
\$8-15	26 Mar 90	¢10	÷10	c 0	1	<100	ŵ	<100	\$	۵	
SB-16	26 Mar 90	<10	25	. 86	:	<100	Ą	<100	ŵ	\$\$	

Table 1. Analytic Results: Soil (continued) Former Cheyron Asphalt Plant Emeryville, California

FA Method 8915 413.2 418.1 6240	Boring 10	Sampled	TPH Gasoline	TPH Diesel	Total O&G	Petroleum O&G	Acetone	Methylene Chloride	2-Butanone	Butanone 1,2-DCE	TCE
26 Har 90 <10	PA Method		8015	8015	413.2	418.1	8240	1	8240	. 8240	8240
26 Har 90 47 16 29 400 410 45 45 410 45 410 45 410 45 410 45 410 45 410 45 410 45 410 45 410 45 410 45 410	17	26 Mar 90	<10	¢10	1300	530	<100	\$	<100	\$	\$
26 Har 90 78 38 280 420 4100 65 4100 65 26 Har 90 410 450 32 4100 65 4100 65 26 Har 90 410 450 32 4100 65 4100 65 26 Har 90 410 410 37 4100 65 4100 65 26 Har 90 410 410 72 4100 65 4100 65 26 Har 90 410 410 72 4100 65 4100 65 26 Har 90 410 410 72 4100 65 4100 65 26 Har 90 450 410 110 71 4100 65 4100 65 26 Har 90 86 410 150 410 65 4100 65 26 Har 90 87 410 410 410 410 65 4100 65 26 Har 90 410	18-18	26 Mar 90	25	16	59	400	<100		<100	٨	£
26 Mar 90 <10 <10 450 32 <100 <5 <100 <5 26 Mar 90 <10	3B-19	26 Mar 90	78	38	280	420	<100	\$	×100	\$	Ą
26 Harr 90 <10 <10 <2 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <	18-20	26 Mar 90	<10	<10	450	32	<100	\$	<100	Ą	ψ
26 Mar 90 410 4	18-21	26 Mar 90	~10	<10	22	99	<100	ŝ	<100	ź.	Ą
26 Mar 90 78 410 530 31 410 410 450 4100 450 4100 450 4100 450 4100 450 4100 450 4100 450 4100 450	18-22	26 Mar 90	· 01>	¢10	93	25	<100	\$	<100	Ą	Å
26 Har 90 410 410 75 4100 45 4100 45 26 Har 90 1900 410 3900 2300 410 65 4100 45 26 Har 90 460 410 110 410 45 4100 45 26 Har 90 390 410 110 4100 45 4100 45 26 Har 90 97 410 150 4100 45 4100 45 26 Har 90 57 410 57 4100 45 4100 45 26 Har 90 410 410 42 4100 45 4100 45 26 Har 90 410 410 410 4100 45 4100 45 26 Har 90 410 410 4100 45 4100 45	38-23	26 Mar 90	78	¢10	230	31	<100	\$	<100	\$	Ą
26 Mar 90 1900 <10 3900 2300 <100 <5 <100 <5 26 Mar 90 660 <10	18-24	26 Har 90	<10	<10	.120	76	<100	ô	<100	ĉ.	Ą
26 Mar 90 660 <10 1100 170 <5 <100 <5 26 Mar 90 390 <10	39-25	26 Mar 90	1900	<10	3900	2300	· 100	Ą	<100	\$	Ą
26 Mar 90 390 <10 110 <100 <5 <100 <5 26 Mar 90 86 <10	18-26	26 Mar 90	099	<10	1100	;	170	\$	<100	\$	Ą
26 Mar 90 86 <10 150 <100 <5 <100 <5 26 Mar 90 97 <10	18-27	26 Mar 90	390	۰10 د	110	•	4100	ŵ	¢100	Å	ß
26 Mar 90 97 <10 570 <100 <5 <220 <5 26 Mar 90 59 <10	B-28 ·	26 Mar 90	98	×10	150	;	<100	\$	<100	£	Ą
26 Mar 90 59 <10	.8-29	26 Mar 90	26	۰ 10	570	:	<100	Ą	220	\$	ŵ
26 Mar 90 <10 <10 64 <100 <5 <100 <5 26 Mar 90 <10 <10 <5 120 <5 <100 <5	18-30	26 Mar 90	59	¢10	55	;	150	\$	<100		î,
26 Mar 90 <10 <10 <5 120 <5 <100 <5	8-31	26 Mar 90	~10	<10	99	;	<100	. \$>	<100	Ą	ŝ
	SB-32	26 Mar 90	×10	<10	ŵ.		120	۵	<100	\$	ث

Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, Cąlifornia

thod 8015 413.2 418.1 8240 8240 8240 8240 8240 26 Mar 90 <10 <10 <5 <100 <5 <100 <5 26 Mar 90 <10 <10 <5 <100 <5 <100 <5 26 Mar 90 <10 <10 <5 <100 <5 <100 <5 26 Mar 90 <10 <10 <5 <100 <5 <100 <5 26 Mar 90 <10 <10 <5 <10 <5 <10 <5 26 Mar 90 <10 <10 <5 <10 <5 <10 <5 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <6 <	Boring 10 ·	Sampled	TPH Gasoline	TPH Diesel	Total O&G	Petroleum O&G	Acetone	Methylene Chloride	2-Butanone	1,2-DCE	301
26 Har 90 <10 <10 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <1	EPA Metho	ע	8015	8015	413.2	418.1	8240	1	8240	. 8240	8240
26 Mar 90 410 45 45 410 45 410 45 410 45 45 410 45	SB-33	26 Mar 90	<10	410	\$		100	\$	<100	\$	\$
26 Mar 90 <t< td=""><td>SB-34</td><td>26 Mar 90</td><td>. <10</td><td>. 410</td><td>Ŷ</td><td>;</td><td><100</td><td>,22</td><td><100</td><td>Ą</td><td>φ.</td></t<>	SB-34	26 Mar 90	. <10	. 410	Ŷ	;	<100	, 2 2	<100	Ą	φ.
26 Mar 90 <10 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <	58-35	26 Mar 90	<10	720	6200	· ;	<100	₽	<100 <100	Ą	Ϋ́
26 Mar 90 <10 <10 <5 <100 <5 <100 <5 26 Mar 90 <10	SB-36	26 Mar 90	¢10	¢10		:	<100	Ą	<100	φ.	. A
26 Mar 90 <10	SB-37	26 Mar 90	<10	¢10	∜	÷	<100	ئ	<100	9.9	, ₁ 5
26 Mar 90 <10	SB-38	26 Mar 90	<10	, 10	₩	÷	<100	. ŵ	<100	Ą	, _f
26 Mar 90 <10 <10 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 <5 <100 1500	SB-39	26 Mar 90	¢10	¢10	Å	;	200	·.	<100	ı.	, Å
26 Mar 90 <10 <10 B <100 <5 <100 <5	SB-40	26 Mar 90	¢10	¢10	\$	i	<100	\$	<100	î,	, .
26 Mar 90 1200 <10 92000 1700 <100 <5 <100 <1700 26 Mar 90 <10	SB-41	26 Mar 90	40	×10	so.		<100	\$	<100	۵	Ϋ́
26 Mar 90 <10 <10 9 <100 <5 <100 <5	SB-42	26 Mar 90	1200	<10	92000	1700	<100	.	<100	1700	15000
	SB-43	26 Mar 90	۲10 د10	¢10	•	;	<100	\$	<100	۵	۵

Table 2. Analytic Results: Soil Former Chevron Asphalt Plant Emeryville, Galifornia

Boring 10'	Date Sampled	Benzene	Jenzene Toluene <			Cadmium ppb	Chromium	Zinc	Lead	Lead
EPA Method		8240	8240	8240	8240	3050/6010	3050/6010	3050/6010	3050/6010 1310/6010	1310/6010
SB-1	26 Mar 90	\$	₽	\$	\$	\$	11	41	22	;
S8-2	26 Mar' 90			\$	Ą	۵	#	- 41	52	;
\$B+3	26 Mar 90	⋄	₽	₩.	. \$	ئ	٠,	57	20	;
7-8S	26 Har 90	Ą	. &		₽	Å	ıv	23	35	;
SB-5	26 Mar 90	₽	.₩	₽	Ą	۵	4	27	22) }.
SB-6	26 Mar 90	\$	₽	₽.	Ą,	\$		18	5	. :
28-7	26 Har 90	٨	Ą		\$	φ.	14 ر	31	35	;
8-85	26 Mar 90	\$	\$.₩	ź.	۵	! • 9	13	13	: :
\$8-9	26 Mar 90	₽	Ą		\$	ů	•	. 1 5	16	:
SB-10	26 Mar 90	₽	\$	٨	. \$	ŝ	12	ĸ	23	;
SB-11	26 Mar 90	₽	Ą	٥	\$	ů		22	23	
SB-12	26 Mar 90	₽	ŵ	₽	.₽	û	~	16	16	;
SB-13	26 Mar 90	£	Ş	•	\$	ప	2	12	14	;
58-14	26 Mar 90	\$	Ş	ŵ	\$	Å	~	14	13	;
\$8-15	26 Mar 90	Ş	ĉ	ئ	ô	. ₩	æ	43	43	:
58-16	26 Mar 90			₽.	Ş	_. m	11	170	90	÷

Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California

Table 2.

Boring 1D	Sampled	Benzene	Toluene	E-Benzene	Xylenes	Total Cadmium	Total Chromium	Total ? Zinc	Total	Soluble
EPA Method		8240	8240	8240	8240	3050/6010	3050/6010	3050/6010	3050/6010 1310/6010	1310/6010
· SB-17	26 Mar 90	\$ >	Ş	\$	\$	\$	18	8	120	<0.2
SB-18	26 Mar 90	\$	Ą	.	8.6	۵	14	120	190	<0.2
SB-19	26 Mar 90	Ş	\$	\$	۵	₽	7	110	150	<0.2
SB-20	26 Mar 90	\$	23	\$	92	7	‡	700	880	<0.2
SB-21	26 Mar 90	î,	\$	\$\$	ô	۵	٥	130	150	¢0.2
SB-22	26 Mar 90	\$	\$	\$\$	ô	ΰ	٥	78	130	м
SB-23	26 Mar 90	Ą	ę\$		Ą	చ	7	120	120	60.2
58-24	26 Mar 90	₽.	\$	\$	ŵ	£	٥	200	180	m
SB-25	26 Mar 90	₽	ئ	\$	ô	Ω	හ	. 22	17	2
SB-26	26 Mar 90	£,	\$	٨	\$	ప	37	21	£1	:
SB-27	26 Mar 90	\$.₩	Å	Ą	\$	æ	=	12	:
82-88	26 Mar 90		Å	\$	ŵ	ů	ĸ	13	21	÷
SB-29	26 Mar 90	\$	Ą		ŵ	ΰ	Ξ	120	110	÷
SB-30	26 Mar 90	ĉ,	\$	\$	\$	φ,	Ξ	35	34	;
SB-31	26 Mar 90	ئ	.	Ą	\$	Đ	រភ	9	30	:
\$8-32	26 Mar 90	\$	¢	Å	Ş	ζ,	ئ	18	18	:
\$8-33	26 Mar 90	. Ĉ	\$. ♥	\$	₽	Ŷ;	56	17	:
28-34	26 Mar 90	ζ.	\$	-\$	\$	۵	٧.	ಐ	12	;

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Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California

Table 2.

BOCTOS 10	Sampled	senzene <	Benzene Toluene	E-Benzene Xylenes	Aytenes	lotal Cadmium ppb	Total Chromíum	Total Zinc	Total Lead	Soluble Lead
EPA Method		8240	8240	8240	, 8240	3050/6010	3050/6010	3050/6010	3050/6010 3050/6010 1310/6010	1310/6010
SB-35	26 Mar 90	\$	\$	\$	\$	ů	7	26	30	:
SB-36	26 Mar 90	Ş	\$	₽	Ϋ́	۵	₽	£	41	:
SB-37	26 Mar 90	\$	\$	Ą	ŵ	۵	•	14	16	;
SB-38	26. Mar. 90	\$	Ą	Ą	\$; :	ጐ	'n	10	i
SB-39	26 Mar 90	۵	. ₩	Ą	ψ.	φ.	φ.	v 0	. 40	į
SB-40	26 Mar 90	₽	٨	₽	\$	♡	Æ.	=	5	
SB-41	26 Mar 90	٨	Ϋ́	₽	\$	۵.	₽	: v o	÷ \$	÷
28-42	26 Mar 90	Ą	7.0	089	3100	۵	\$	190	120	•
SB-43	26 Mar 90	Ą	\$	Ą	Ą	Δ.	z.	£	17	•

All analyses by Groundwater Technology Environmental Laboratories (GTEL) ppm = parts-per-million ppb = parts-per-billion O&G = 0il and Grease 1,2-DCE = 1,2-Dichloroethene TCE = Trichloroethene E-Benzene = Ethylbenzene = Ethylbenzene < = Less than indicated detection limit --- = Not Analyzed



TABLE 1. Analytic Results; Soil Samples Former Chevron Asphalt Plant Emeryville, California

Boring ID#	Date	Method	Lab	ТРИ	TCE	Benzene	Toluene	E∗Benzene	Xylenes	Chloroform	Acetone	O&G
				zlidd-ry		#		ddd] 		A	<шdd>
<u>-</u>	01 Feb 91	8015/8240/503E	; SAL,	~10	82	41	67	<15	78	<15	<50	110
8-2 -8	01 Feb 91	8015/8240/503E	SAL	<10	120	₽.	.5	₹	<u> </u>	₹	<50	. %
8-3	.01 Feb 91	8015/8240/503E	SAL	 ₽	1,800	. 58	₹	<15	<u>^</u>	. 52	<\$0.	<50
8-4	01 Feb 91	8015/8240/503E	SAL	02	œ.	0.	<u> </u>	£	<u> </u>	₹	×50	069
B-5.	01 Feb 91	8015/8240/503E	SAL	180	₹	× 10	<15	<15 × · · · · · · · · · · · · · · · · · ·	~ 5	V	<50	160
9-8	01 Feb 91	8015/8240/503E	SAL	250	330	-11	. 99	***	140	2 .	120	22
8-7	01 Feb 91	8015/8240/503E	SAL	88	2,300	<10	<15	₹5	<u>∧</u>		<50	100
8 - 8	01 Feb 91	8015/8240/503E.	SAL	0⊽	55	0 ↓>	₹	÷.	<u>\</u>	55	~ 50	50
٠ . ه	01·Feb 91	8015/8240/503E	SAL	€	530	<10	<15	<u>^</u>	₹.	-12	<50	. 5 0
B-10	01 Feb 91	8015/8240/503E	SAL	<10.	210	<10	<15 -	€.	415	<15	~ 50	\$
B:11	01 Feb 91	8015/8240/503E	SAL	₽	350	€	√15	₹		<u>₹</u>	<50	\$50
В-12	01 Feb 91	8015/8240/503E	SAL	~10	√ ₹	~10	<15	÷.	<15	<15	200	<50
B-13	01 Feb 91	8015/8240/503E	SAL	€	<15	0	<15	₹	. 5	<u>^</u>	~ 50	<50
				· :	-	-:			•			•



LE 1. Analytic Results: Soil Samples (continued)
Former Chevron Asphalt Plant
Emeryville, California

Boring	Date	Method	Lab	TPH	TCE.	Benzene	Toluene	E-Benzene	Xylenes	Chloroform	Acetone	080
				^lidd>	v	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-qdd			^	<mdd></mdd>
B-14	01 Feb 91	8015/8240/503E	SAL	.	₹.	~10	<u>5</u>	2	. 615	 <15	<50	-\$0 \$0
B-15	01 Feb 91	8015/8240/503E	SAL	<10,	. ₽	₽\$	₹	45	<u>^</u>	×15	. 50	~ 50
B-16	01 Feb 91	8015/8240/503E	SAL	<10	~15	√9	<15	Ş	<u>∧</u>	<15	\$0 \$	\$ 0
B-17	01 Feb 91	8015/8240/503E	SAL	Ç.	<15	€	<15	55	₹	<15	8	
B-18	01 Feb 91	8015/8240/503E	SAL	0 10	⊼:	0 V	A15	₽	∑	<u>^</u>	. 5 0	55
B-19	01 Feb 91	8015/8240/503E	SAL	<10	7,7	0 ▼	<15	₽	₩		2 0	20.
B-20	01 Feb 91	8015/8240/503E	SAL	. V	97	0.	<15	. 5	₽.	۸ 7	8	.50
B-21	01 Feb 91	8015/8240/503E	SAL	. €	1,400	~10	<15	₹.	55	<u>ہ</u> تر	\$0.	- 05
B-22	01 Feb 91	8015/8240/503E	SAL	€	88	O.\ V		.	. ₹	<15 *	~ 50	650
B-23	. 01 Feb 91	8015/8240/503E	SAL	~10	~ *	0	<	· <15	<u>5</u>	~15 ************************************	. 50	\$
B-24	01 Feb 91	8015/8240/503E	SAL	18		. €	15	<15	. . .	<15	<50	05
-	٠					:				:		



1. Analytic Results: Soil Samples (continued) Former Chevron Asphalt Plant Emeryville, Californja

NOTES

TPH = Total Petroleum Hydrocabrons as djesel
TCE = Trichloroethene
E-Benzene = Ethylbenzene
O&G = 011 and Grease
O&G = parts-per-million
pph = parts-per-million
pph = Not Analyzed
SAL = Superior Analyzed

Table 1: Soil Analytical Results - Organics
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street, Emeryville, California.

		Approximate	TDI	0:1 1	37.1.2	-
	Dose		TPH	Oil and	Volatile	Polychlorinated
0 1	Date	Depth	Diesel (a)	Grease (b)	Organics (c)	Biphenyls (d)
Sample	Collected	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1-2	6-May-92	2	21 (e)	170	0.350 (f)	ND (0.050)
SB-1-5	6-May-92	. 5	160 (g)	ND (50)	ND	ND (0.050)
SB-2-2	6-May-92	2	85 (e)	290	0.420 (f)	ND (0.050)
SB-2-5	6-May-92	• 5	ND (10)	ND (50)	ND	ND (0.050)
SB-3-2	6-May-92	2	84 (e)	430	0.100 (f)	ND (0.050)
SB-4-2	6-May-92	2	17 (e)	250	0.170 (f)	ND (0.050)
HL-4	8-May-92	. 8	ND (10)	ND (50)	ND	NA
HL-5	8-May-92 \	9	ND (10)	ND (50)	ND	NA
S-1	11-May-92	9	ND (10)	ND (50)	ND	NA
S-2	11-May-92	. 12	180 (g)	87	ND	NA
S-3	11-May-92	9	21 (g)	ND (50)	ND	NA

⁽a) Analyzed by USEPA Method 8015, modified.

mg/kg Milligrams per kilogram equivalent to parts per million (ppm)

ND (10) Not detected (Detection Limit)

NA Not analyzed

Analysis by Superior Precision Analytical, Inc., Martinez, California.

⁽b) Analyzed by USEPA Method 5520F.

⁽c) Analyzed by USEPA Method 8240.

⁽d) Analyzed by USEPA Method 8080.

⁽e) Superior reported the pattern of chromatogram shows heavy hydrocarbons.

⁽f) Only acetone was detected in Volatile Organic Analysis, acetone levels reported.

⁽g) Superior reported the pattern observed in the chromatogram was not typical of diesel.

Table 2: Soil Analytical Results - Metals
Former Chevron Asphalt Plant - Facility #1001067
1520 Powell Street, Emeryville, California.

	TTLC (b)	Sample SB-1-2 (c)	Sample	Sample	Sample	Sample	Sample
Metal (a)	(mg/kg)	(mg/kg)	SB-1-5 (c) (mg/kg)	SB-2-2 (c)	SB-2-5 (c)	SB-3-2 (c)	SB-4-2 (c)
	(4.6/1.6/	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	500	6	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Arsenic	500	4	4	6	5	5	3
Barium	10,000	110	140	180	170	180	110
Beryllium	75	ND (0.5)	ND (0.5)	0.6	0.5	ND (0.5)	ND (0.5)
Cadmium	100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Chromium	2,500	12	23	19	19	21	16
Cobalt	. 8,000	ND (10)	ND (10)	ND (10)	10	10	ND (10)
Copper	2,500	.20	20	20	20	40	40
Lead	1,000	44	7	8	13	380	230
Mercury	20	0.4	0.2	1.7	ND (0.1)	1.8	1.4
Molybdenum	3,500	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Nickel	2,000	20	20	50	50	30	20
Selenium	. 100	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Silver	500	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Thallium	700	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vanadium	2,400	10	30	30	30	20	20
Zinc	5,000	100	30	20	30	310	110

⁽a) Analyzed by USEPA Method 6010, All results reported in milligrams per kilogram (mg/kg).

⁽c) Collected on May 6, 1992.

mg/kg	Milligrams per kilogram (ppm)
ND (10)	Not detected (Detection Limit)

⁽b) Total threshold limit concentrations for toxicity. California Code of Regulations Title 22, Division 4.5, Chapter 11, Article 3, 66261.24 Characteristics of Toxicity.

Maximum Soil Concentrations, Former Chevron Asphalt Plant, Emeryville, Table 3-1. California.

Constituent	Soil Concentration (mg/kg)
Benzene	0.5
trans-1,2-Dichloroethene	1.7
Ethylbenzene	0.68
Toluene	0.007
TPH as diesel	3,500
TPH as gasoline	1,900
Trichloroethene	15
Xylenes	3.1

mg/kg

Milligrams per kilogram.
Total petroleum hydrocarbons. TPH



TABLE 1. Analytical Results of Soil Samples taken from Underneath the Remaining Structures at Emeryville

				47			
Boring	(Gas)	B <	T .	E p	ря -	O&G	PCE
1	<1	<0.005	0.005	<0.005	0.011	. <50	<0.005
2 ·	<1 .	<0.005	0.006	<0.005	0.011	<50	<0.005
3	<1	<0.005	0.005	<0.005	0.010	< 50	<0.005
4	<1	<0.005	0.006	<0.005	0.011	<50	<0.005
5	<1	<0.005	0.011	<0.005	0.012	<50	<0.005
5	Not Sampled						
7	<1	<0.005	0.006	<0.005	0.011	<50	<0.005
3	Not Sampled			•			
,	≺1	<0.005	0.006	<0.005	0.022	<50	<0.007
10	<1 .	<0.005	0.006	<0.005	0.013	⁻ <50	<0.005
11	<1	<0.005	0.006	<0.005	0.012	<50	<0.005
12	<1	<0.005	<0.005	<0.005	0.010	<50	<0.005
13	<1	<0.005	0.005	<0.005	0.010	<50	<0.005
	1	<0.005	<0.005	<0.005	0.016	<50	<0.005
5	<1	<0.005	<0.005	<0.005	0.010	51	<0.005
6 .	<1	<0.005	0.009	<0.005	0.017	≺ \$0	<0.005
7	Not Sampled						
8	Not Sampled			ż			
9	Not Sampled						



TABLE 1. Analytical Results of Soil Samples taken from Underneath the Remaining Structures at Emeryville (continued)

Boring	TPPH (Gas)	8 <	T 	. E	х рт	0&G	PCE >
20	1	<0.005	0.006	<0.005	0.014	. <50	<0.005
21	53	<0.005	<0.005	<0.005	0.16	<50	<0.005
22	<1	<0.005	<0.005	<0.005	<0.005	260	<0.005

NOTES:

TPPH (Gas) = Total Purgeable Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

O&G = Oil and Grease

PCE = Tetrachloroethene

ppm = parts-per-million

Analytic Results: Soil Former Chevron Asphalt Plant Emeryville, California

Boring 10	Date Sampled	TPH Gasoline	TPH Diesel	Total O&G	Petroleum O&G	Acetone	Hethylene Chloride	2-Butanone	1,2.0cE	TCE
EPA Method	•	8015	8015	413.2	418.1	8240	8240	8240	8240	8240
58-1	26 Mar 90	<10	<10	17	:	<100	₽	×100	\$	\ ₩
SB-2 2	26 Mar 90	• <10	410	27	:	<100		<100 <100	. Α	, A
. SB-3	26 Mar 90	· 10	¢10	۲n		×100	. &	· <100	. Α	, ₁ 0
SB-4 · 5-8S	26 Mar. 90	°10	¢10	7	:	<100	\$	×100	. A	, Æ
28-5	26 Mar 90	¢10	<10	۰	:	<100	\$	<100	. Α	, A
SB-6 2	26 Mar 90	410	<10	•	÷	<100	\$	<100	. Α̂	, . .
SB-7	26 Mar 90	¢10	<10	1 5	÷	¢100	\$	<100	Ą	, £
28-8	26 Mar 90	¢10	<u><10</u>	15	i	<100	Ą	· 100	ı.	, <u>;</u> Ç
\$8.9	26 Mar 90	~10	<10	ω	:	<100	Ą	<100	گ	, iĈ
28-10 2	26 Mar 90	~10	×10	Ą	:	×100	\$	<100	Ą	· \$
SB-11 2	26 Mar 90	<10	<10	420	:	<100	₽	<100	Å	Ŷ
SB-12 2	26 Mar 90	¢10	<10	22	:	<100	Ą	<100	٨	· \$
58-13 2	26 Mar 90	~10	. <10	ô	:	<100	\$	<100	₽	· 10
58-14 2	26 Mar 90	<10	<10	Ĉ.	•	<100	\$	<100	Ą	\$
58-15 2	26 Mar 90	<10	÷10	8	•	<100	₽	<100	٨	· · \$0
SB-16 Z	26 Mar 90	. <10	57	. 86	:	<100	Å	<100	₽	ŕ.

Analytic Results: Soil (continued) Former Cheyron Asphalt Plant Emeryville, California

thod	8015				· · · · · · · · · · · · · · · · · · ·		qdq		**********
	- •	8015	413.2	418.1	8240	8240	8240	. 8240	8240
		<10	1300	530	<100	\$	<100	\$	\ \$
	27 47	16	56	700	<100	V	~ 100	, Α	, £
58-19 26 Mar 90	. 82	38	.280	420	<100	Ą	. 4100		, ₁ ¢
SB-20 26 Mar 90	01>	~10	450	32	<100	\$	<100	, .A	, f
SB-21 26 Mar 90) <10	¢10	22	26	<100	\$	¢100	, ?\$) (
S8-22 26 Mar 90	×10 ·	410	93	22	<100	. ♥	×100	. .	, ŕ
SB-23 26 Mar 90	78	¢10	230	31	~1 00	₽	· •100	· .	, 4
SB-24 26 Mar 90	01>	¢10	120	76	<100	Ą	<100	, &	, 4
「大くよくな! (を) → 58-25 26 Mar 90 16/00	1900	<10	3900	2300	<100	\$	<100	, . .	, .c
SB-26 26 Mar 90	099	¢10	1100	:	170	Ą	×100	. A	, 4
SB-27 26 MBr 90	390	<10	110	;	×100	Ą	<100	, &) Y
\$8-28. 26 Mar 90		¢10	150	;	<100	Ş	1 00	, , 0	, k
SB-29. 26 Har 90	26	<10	570	;	<100	Ą	220	, £) (
SB-30 26 Mar 90	65	<10	55	:	· 150	ŵ	<100	, .	? '
SB-31 26 Mar 90	<10	¢10	79	;	<100	· &	₹100	, . 2) "
SB-32 26 Mar 90	<10	~10	ř.	;	120	Ą	×100	, Α	, , ,

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Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California

EPA Method SB-33 26 Mar 90 SB-34 26 Mar 90 SB-35 26 Mar 90			4	930 *	*	Chloride	Z-Butanone 1,2-DCE	1,2-DCE	TGE
	8015	8015	413.2	418.1	8240	8240	8240	. 8240	8240
	<10	¢10	۵		100	\$	×100	\$	<
	. <10	. <10	Ą.	;	. ~100	, 1 2	×100	, 4	? 4
	~10	720	9500	· .:	<100	Å	×100	,	ç
S8-36 26 Mar 90	¢10	<10	₽	:	√100	Ą) 	? ५) ·
SB-37 26 Mar 90	¢10	¢10	φ.	;	<100	, 2	8 5	, `	≎ '
SB-38 26 Mar 90	91>	×10		÷	. 6	, ų	201,	0.0	\$
SB-39 26 Har 90	10	<10	. r2	,		9 4	00(>	\$	\$
SB-40 26 Mar 90	<10	: 5	, ń		000	ç	<100	₽	Å
	<u> </u>	· ·	?		¢100	î.	4100 4100	\$	ô
04 184 07 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<10	1 0	ω	:	<100	\$	<100	\$	÷
(SB-42) 26 Mar 90	1200	410	92000	1700	<100	Ą	~100	1700	15000
SB-43 26 Mar 90	<10	<10	٥	;	×100	â	<100	î,	φ

Analytic Results: Soil Former Chevron Asphalt Plant Emeryville, Galifornia

Table 2.

Boring 10'	Date Sampled	Benzene	3enzene Toluene	E-Benzene	Xylenes	Total Cadmium	Total	Total Zinc	Total Lead	Soluble
EPA Hethod		9540	8240	8240	8240	3050/6010	3050/6010	3050/6010	3050/6010 1310/6010	1310/6010
SB-1	26 Har 90	\$	\$	\$	\$	2	=		;	
SB-2	26 Mar' 90	\$		٨	Å	, A	: =	, ;	3 %	:
SB-3	26 Mar 90	₽	\$	\$	∵ \$, ඩ	. •	77	Q E	: ;
7-8S	26 Har 90	Ş	.Ĉ		₽	φ.	'n	; 2	; <u>e</u>	
SB-5	26 Mar 90	گ	.\$	\$	\$	₽	7	: 22	22	:
SB-6	26 Mar 90	\$	۵	₽	۵,	۵		18	; ;	
ZB-7	26 Mar 90	\$	Ą.	. ₽	. ♣	స	٠, ٢	. E	3 · ኢ	
8-8	26 Mar 90	₽,	٥	.₩	ŵ	♡	; , 	<u>.</u>	<u> </u>	
6-8S	26 Mar 90	Ą	Ą	\$	₽	φ.	•	: <u></u>	; ,	:
SB-10	26 Mar 90	Å	Ą	Ą	∵	\$	12	: 8	2 2	
58-11	26 Mar 90	\$	₽	₽	Ą	₽	· ·		; ;	: ;
sB-12	26 Mar 90	Ŷ	φ.	ŵ	₽	۵		;	} ¥	
SB-13	26 Mår 90	Ą	Ą	\$	â	۵	. ~	; £	2 2	• • •
SB-14	26 Mar 90	ıç.	స	\$	\$	చ	. ~	; 2	ī ţ	
SB-15	26 Mar 90	\$	ô	ô	\$	۵	. 6 3	. 27	<u>;</u> £	: :
SB-16	26 Mar 90	•\$	\$	\$.	\$, m	=	170	2 09	:

Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California

Table 2.

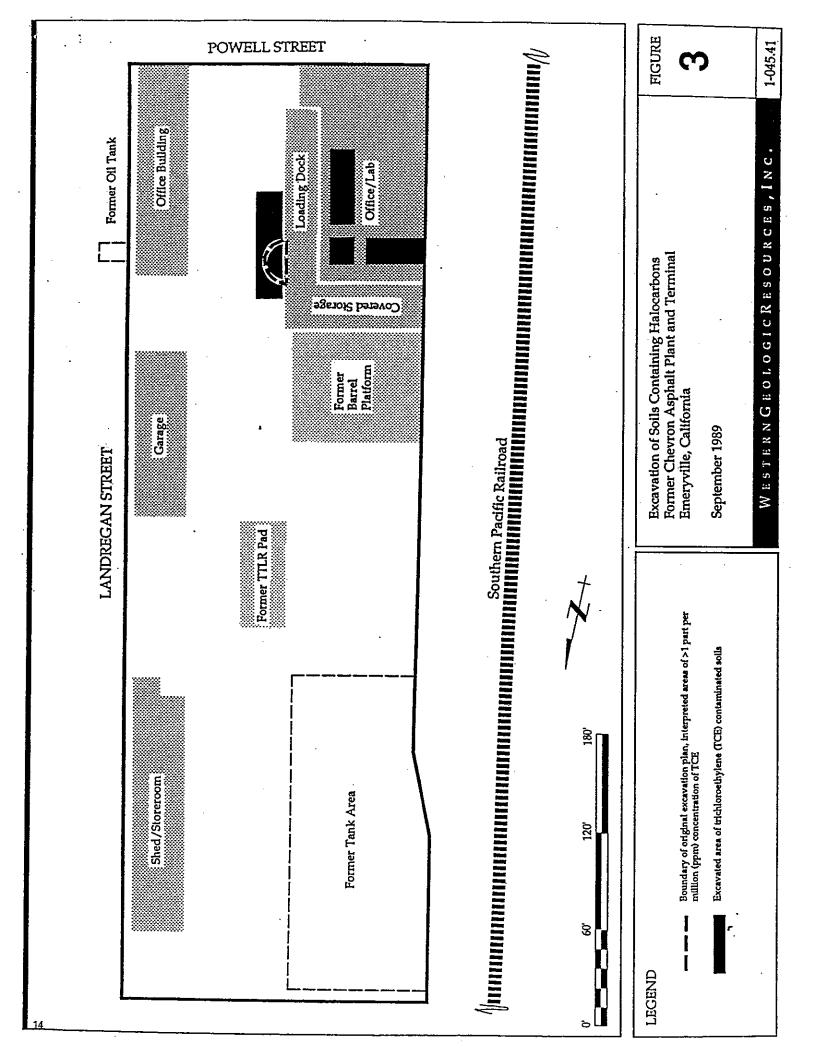
Boring 1D	Date Sampled	Benzene	Toluene	E-Benzene	Xylenes	Total Cadmium	Total Chromium	Total Zinc	Total	Soluble Lead
EPA Method		8240	8240	8240	8240	3050/6010	3050/6010	3050/6010	3050/6010 1310/6010	1310/6010
SB-17	26 Mar 90	۵	Ş	\$	\$	\$	18	8	120	, 6
SB-18	26 Mar 90	٠ ب	۵	\$	8.6	۵	*	120	<u> </u>	, ,
\$8-19	26 Mar 90	₽	Ŷ	ş	φ.	٠ ۵	. ~			7.0
SB-20	26 Mar 90	÷	23	\$	92	7	=	007	2 8	y (
SB-21	26 Mar 90	\$	ç	\$	۵.	చ	6	, P	, t	y (
\$8-25	26 Mar 90	\$	₽	\$	Ą	ß	۰ ۵	3 2	000	, vo.
SB-23	26 Mar 90	Ą	\$	ŵ	٨	۵	. ~	. č	000	(
SB-24	26 Mar 90	\$	\$	Ϋ́	ô	₽	. 0	2 6	0 0	2.0×
SB-25	26 Mar 90	₽	ô	\$	Ą	• • •	• •		00 1	m
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07-90	co Mar 90		Α,	\$	î.	Α.	ĸ	13	5	;
SB-29	26 Mar 90	❖	ئ		\$	ů	11	120	110	:
SB-30	26 Mar 90	÷.	∵	\$	\$	φ.	=	35	75	;
58-31	26 Mar 90	٨	ê,	Ą		A	w	. 09		:
SB-32	26 Mar 90	\$	ź.	Ŷ	ô	۵	* \$, c	ζ .	
58-33	26 Mar 90	\$	\$		\$	చ	Ŷ	? %	ō t	į
SB-34	26 Mar 90	\$	\$	\$	\$	ప	· w	} w	. 21	: :

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Analytic Results: Soil (continued) Former Chevron Asphalt Plant Emeryville, California Table 2.

Boring lp	Sampled	Benzene	Benzene Toluene	E-Benzene Xylenes	Xylenes	Total Cadmium ppb	Tota(Chromium	Total Zinc	Total Lead	Soluble Lead
EPA Method	ģ	8240	8240	8240	. 8240	3050/6010	3050/6010	3050/6010	3050/6010 3050/6010 1310/6010	1310/6010
SB-35	26 Mar 90	45	Ą	۵	\$	Ş		88	98	:
SB-36	26 Mar 90	•	Ą	Ą	Ą	\$	\$	\$2	. 57	:
58-37	26 Mar 90	\$	₽	ŗ	Å	۵	•	· 4	: 91	;
SB-38	26. Mar 90	ιÇ	Ą	₽	ô	: ♡	Ą	ı.	! sn	;
SB-39	26 Mar 90	\$.	\$	₽	₽	۵	• •0	· ~c	;
SB-40	26 Mar 90	Ą	₽	\$	\$	â	Ą	· =	, E	
SB-41	26 Mar 90	۵	Ą	\$	¢	\$	Æ	: v o	? °	· ;
SB-42	26 Mar 90 .	Ş	7.0	680	3100	45	\$	190	120	
88-43	26 Mar 90		?	₽	Ą	\$	ıv	S2	17	• ;

All analyses by Groundwater Technology Environmental Laboratories (GTEL)
ppm = parts-per-million
ppb = parts-per-billion
0&G = 0il and Grease
1,2-bCE = 1,2-bCE = 1,2-bichloroethene
ICE = Trichloroethene
E-Benzene = Ethylbenzene
< = Less than indicated detection limit
--- = Not Analyzed



Approximate area of observed black liquid on April 22, 1992 (a).

SB-3

SB-4

April 22, 1992 (a).

EXPLANATION

Froperty line

SB-1 Approximate soil boring location

(a) Based on information provided by Mr. Gordon Johnson, Chevron, May 6, 1992.

FIGURE

SOIL BORING LOCATIONS

1 inch = 8 feet

Scale

Former Chevron Asphalt Plant - Facility #1001067 1520 Powell Street Emeryville, California

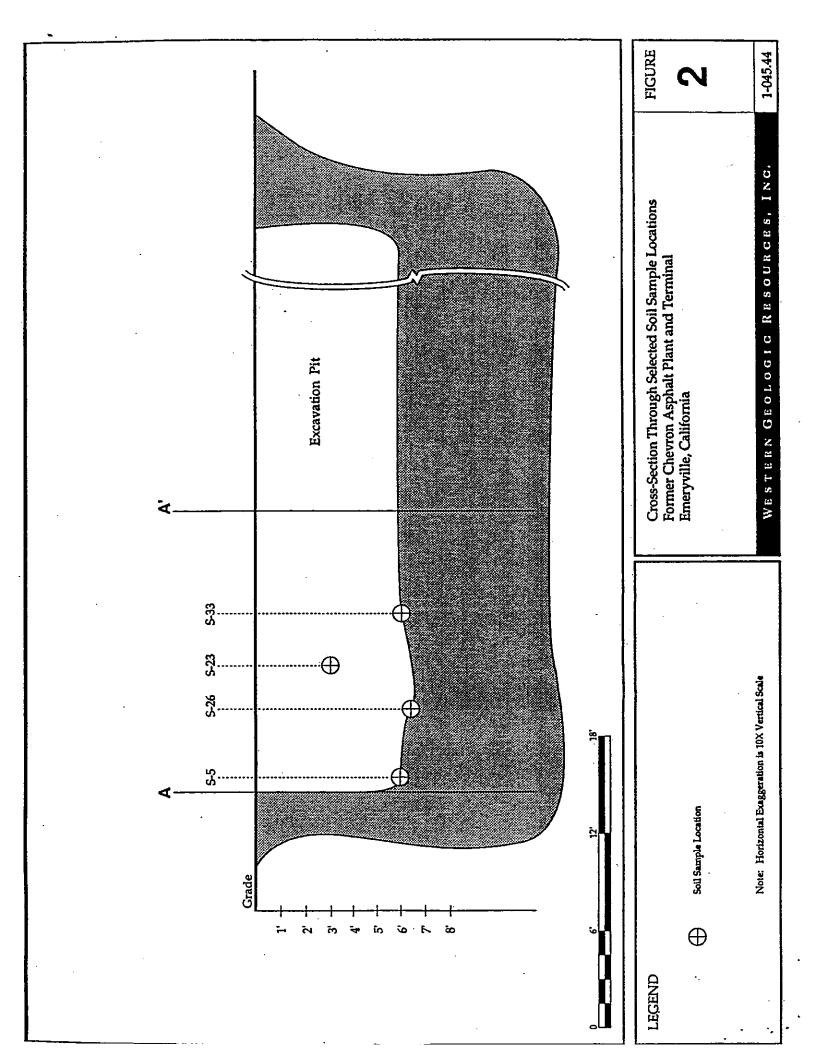


Project No. RC12003

U

WGR

Figure 2. Site Map, Former Chevron Asphalt Plant 1520 Powell Street. Emervville. California



Approximate area excavated on May 6, 1992, surrounding hydraulic lift piston

Approximate area excavated on May 11, 1992

HL-4
HL-5

Approximate area excavated on HL-1

HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

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Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Approximate area excavated on HL-3

Outer foundation wall of demolished garage

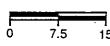
EXPLANATION

Property line

S-1

Approximate soil sample location

Scale 1 inch = 15 feet





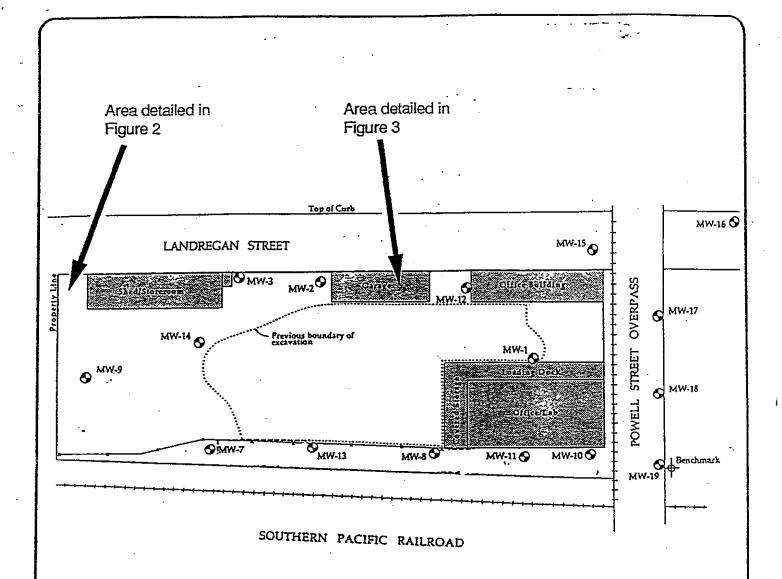


Project No. RC12003

SOIL SAMPLE LOCATIONS

Former Chevron Asphalt Plant - Facility #1001067 1520 Powell Street Emeryville, California FIGURE

3





Site Plan Obtained From Western Geologic Resources (WGR), Soil Sampling Report, May 17, 1992.





Former Chevron Asphalt Plant - Facility #1001067 1520 Powell Street Emeryville, California

SITE PLAN

1

FIGURE

Proj. No. RC12003



825 Arnold Drive. Suite 114 - Martinez, California 94553 - [510] 229-1512 / fax [510] 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 86880-2 CLIENT: Geraghty & Miller CLIENT JOB NO.: RC12004 DATE RECEIVED:10/08/92 DATE REPORTED:10/20/92 CLIENT SAMPLE ID: SP3(1-3) DATE SAMPLED: 10/07/92

CAM 17 METALS
Methods: EPA SW 846 6000 & 7000 Series
California Administrative Code Title 22

Combonuq		Results (mg/kg)	Detection Limit (mg/kg)
		# # T T O O O O O O O O O O O O O O O O	******
Antimony	(Sb)	7	5
Arsenic	(As)	13	1
Barium	(Ba)	240	5
Beryllium	(Be)	ND	0.5
Cadmium	(Cd)	1	1
Chromium	(Cr)	30	5
Cobalt	(Co)	10	10
Copper	(Cu)	40	10
Lead	(Pb)	210	5
Mercury	(Hg)	0.41	0.05
Molybdenum	(Mo)	ND	10
Nickel	(Ni)	40	10
Selenium	(Se)	ND	1
Silver	(Ag)	ND	0.5
Thallium	(TĪ)	ND	5
Vanadium	(V)	30	10
Zinc	(Zn)	. 230	20

mg/kg = parts per million (ppm)

QAQC Summary: Spike Recovery Range: 84-109%

Duplicate RPD = < 22

Richard Stua, Ph.D.

Juliane v Hangulig (fr)

Certified Laboratories

825 Arnold Drive, Suite 114 * Martinez, California 94553 * [510] 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 86880-1 CLIENT: Geraghty & Miller CLIENT JOB NO.: RC12004

DATE RECEIVED:10/08/92
DATE REPORTED:10/20/92
CLIENT SAMPLE ID: SP1(1-3)
DATE SAMPLED: 10/07/92

CAM 17 METALS
Methods: EPA SW 846 6000 & 7000 Series
California Administrative Code Title 22

Compound		Results (mg/kg)	Detection Limit (mg/kg)
Antimony Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Mercury Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc	(Sb) (As) (Ba) (Ba) (Cd) (Cr) (Cu) (Cu) (Pb) (Hg) (Mo) (N1) (Se) (Ag) (T1) (V) (Zn)	ND 7 170 0.5 ND 37 10 30 33 ND ND ND ND ND ND ND ND	5 1 5 0.5 1 5 10 10 5 0.05 10 10 10 10 10 20

ig/kg = parts per million (ppm)

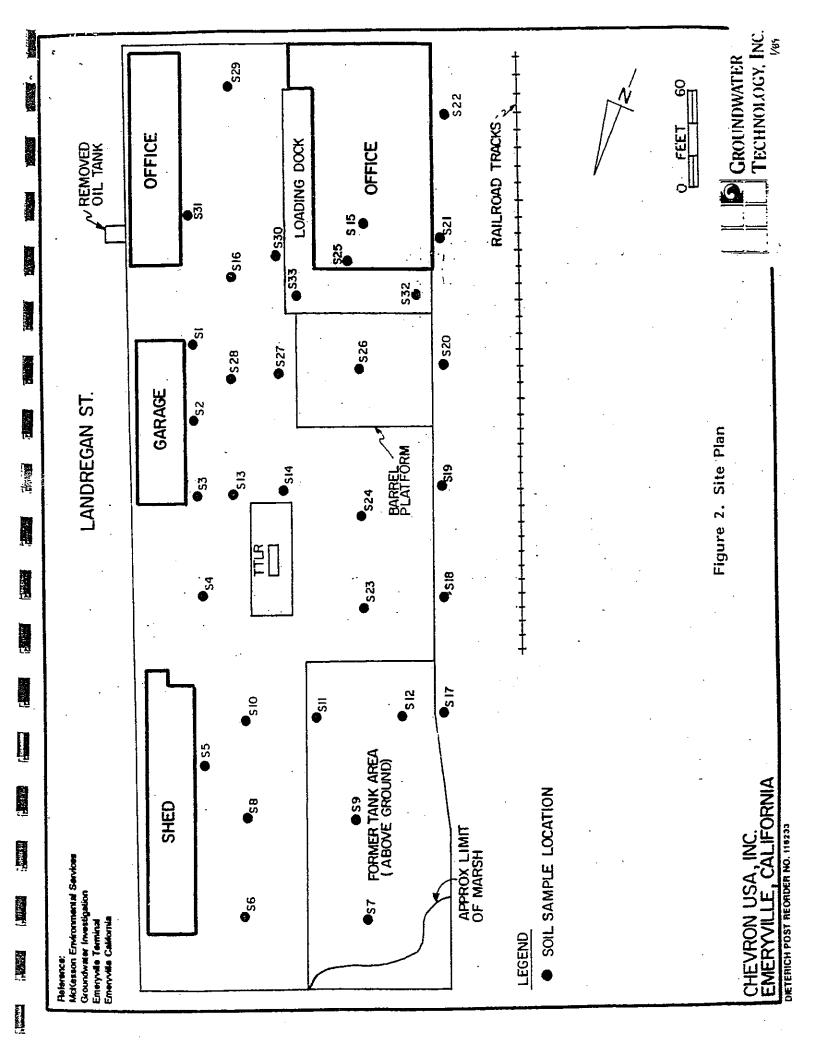
AQC Summary: Spike Recovery Range: 84-109%

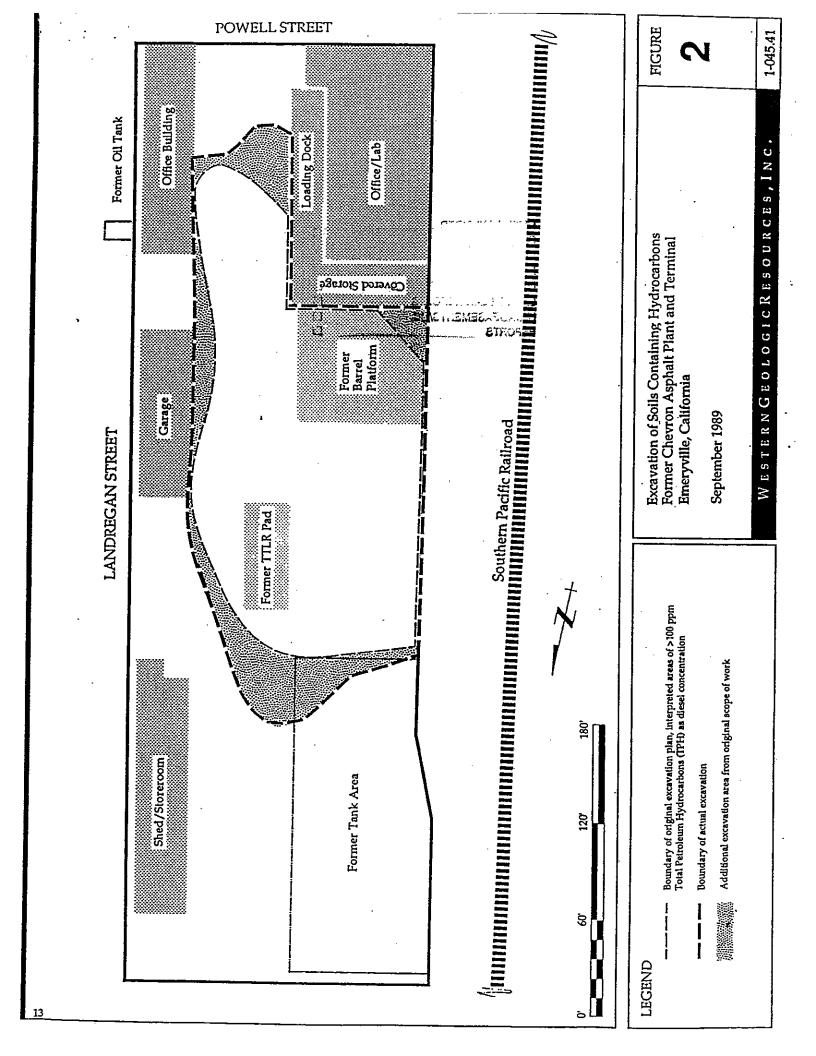
Duplicate RPD = < 22

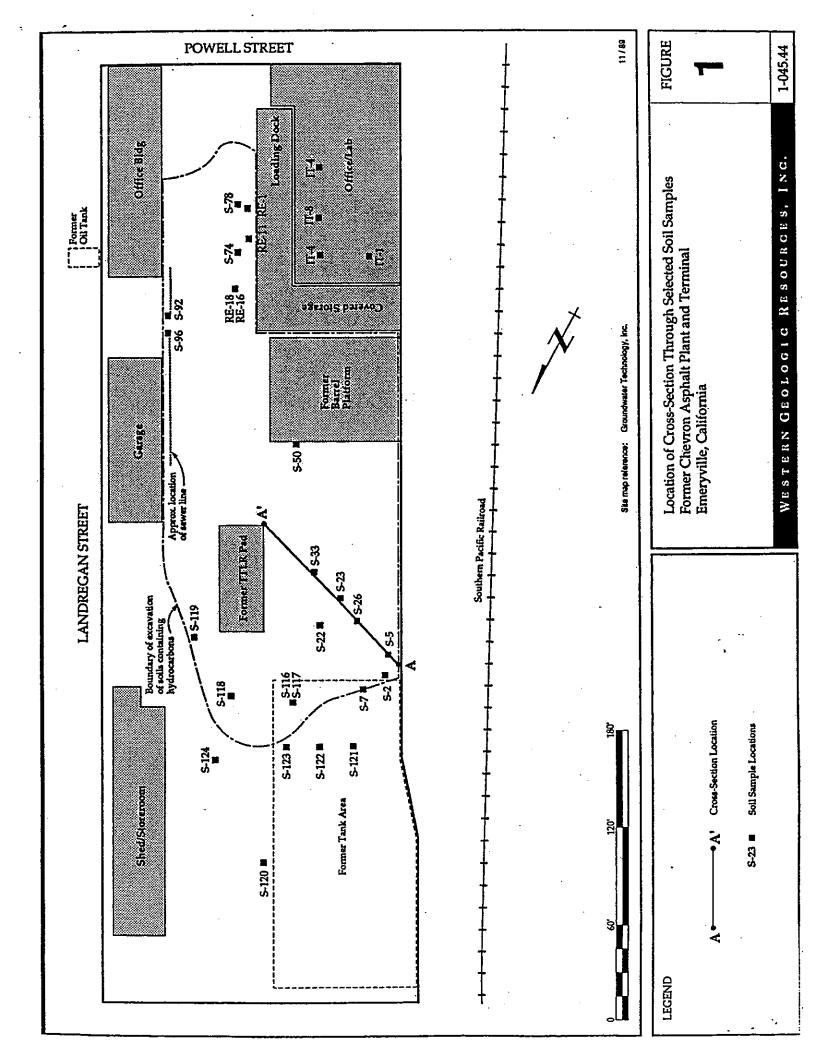
Richard Srna, Ph.D.

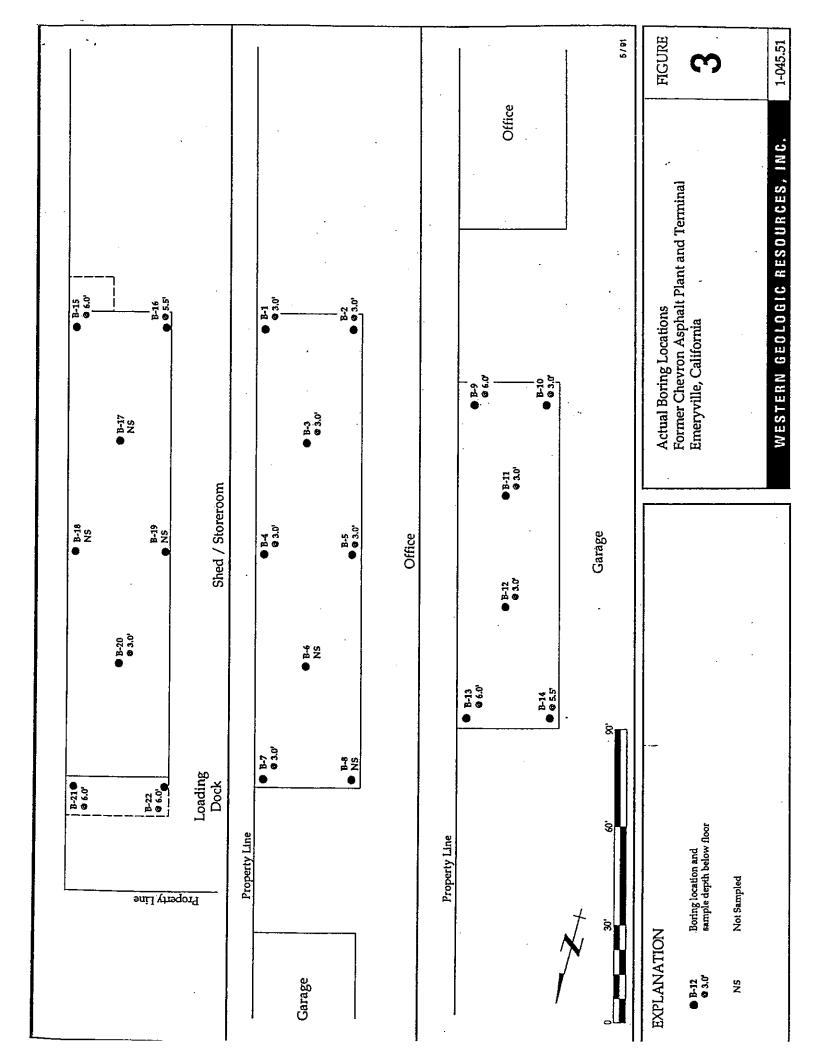
Laboratory Manager (for)

Certified Laboratories









Approximate area excavated on May 6, 1992, surrounding hydraulic lift piston

Approximate area excavated on May 11, 1992

HL-4

S-3 S-1
HL-3
S-2
HL-1
HL-2

Approximate area of sump

Outer foundation wall of demolished garage

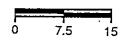
EXPLANATION

Property line

S-1

Approximate soil sample location

Scale 1 inch = 15 feet





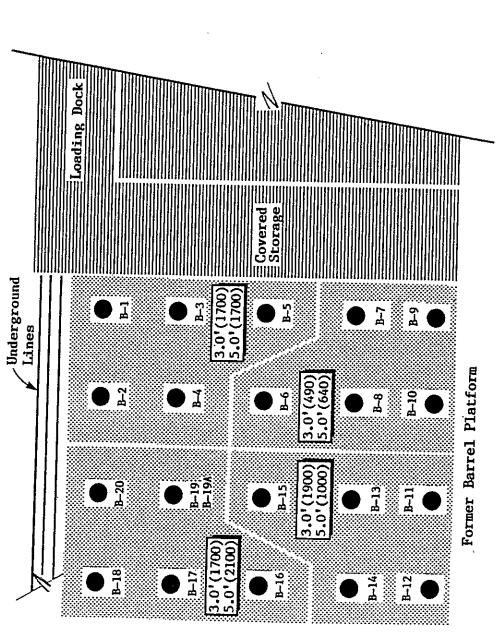


Project No. RC12003

SOIL SAMPLE LOCATIONS

Former Chevron Asphalt Plant - Facility #1001067 1520 Powell Street Emeryville, California **FIGURE**

3



LEGEND

B-1 Boring Location

() Total Fuel Hydrocarbons in ppm

1" = 20'

SCALE:

Figure 3. Boring Locations for B-1 through B-20;

Total Fuel Hydrocarbons at Depths in Feet.
Former Chevron Asphalt Plant

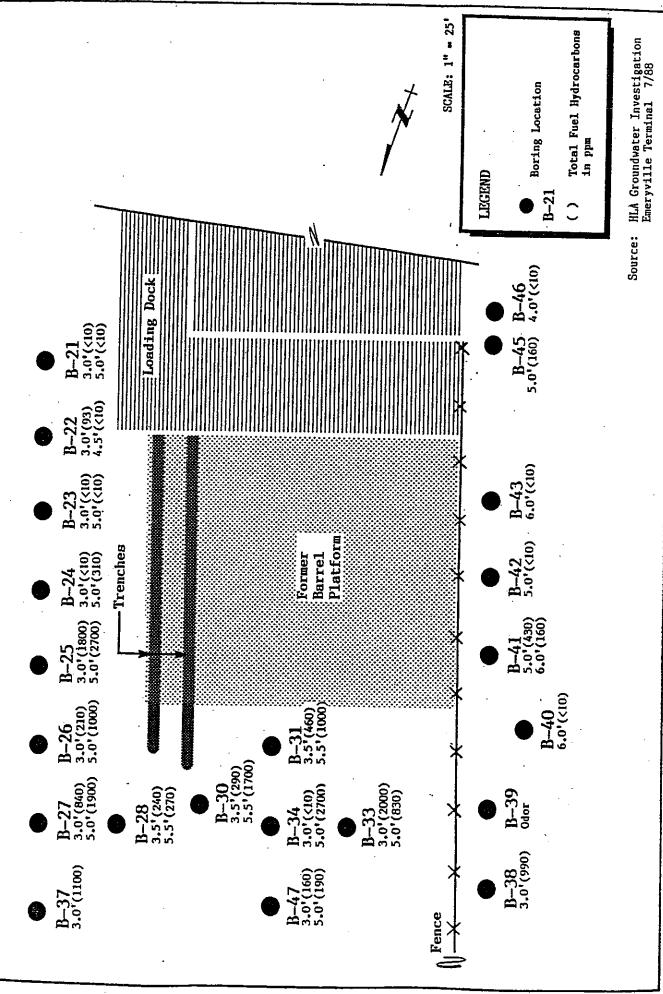


Figure 4. Boring Locations for B-21 through B-47;
Total Fuel Hydrocarbons at Depths in Feet.
Former Chevron Asphalt Plant
1520 Powell Street, Emeryville, California.

WGR

