FAX		Date	Date 3/9/98					
٠		Number of p	pages including cover sheet 8					
To: Phone:	Alameda County Env. Health Env. Protection Div. 510.567.6764	From:	Cynthia Avakian Hygienetics Environmental 7677 Oakport Street Suite 1150					
Fax:	510.337.9335		Suite 1150 Oakland, California 9-621					
cc:	Larry Hjulberg, Compass	Phone: Fax:	510.430.2843 510.430.9268					
nave (ms she ()	Case Closure Summary for 1345 Dool losed as soon as possible. y questions, please give me a call.	little Drive, in San Leandre	o, California. We are anxious to					

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STID 4446

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

T. AGENCY INFORMATION Date: March 9, 1998

Agency name: Alameda County EPD

Address: 1131 Harbor Bay Pkwy #250

City/State/Zip: Alameda, CA 94502

Phone: (510) 567-6700

Responsible staff person: Madhulla Logan

Title:

II. CASE INFORMATION

Site facility name:

Site facility address: 1345 Doolittle Drive, San Leandro, California

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.:

URF Filing date: SWEEPS No: N/A

Responsible Parties:

Address:

Phone Numbers:

Equitable Real Estate

One Bush Street, 12th Floor

(415) 541-4100

Investment Management, Inc.

San Francisco, CA 94104

<u>Tank</u>	<u>Şize in</u>	Contents:	Closed in-place	<u>Date:</u>
No:	gal.:		or removed?:	
1	N/A			
2				
3				
4				

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Soil sample analyses beneath a loading dock located behind the First Western Graphics facility indicated concentrations of diesel and total oil and grease (TOG). The vertical and horizontal extent of the soil contamination was limited; it was excavated and disposed of at an off-site Class I landfill. After soil excavation, five monitoring wells were installed to evaluate the site's groundwater quality. Groundwater samples collected from monitoring well MW-3 in April of 1989, indicated elevated concentrations of volatile organic compounds (VOCs) and consequentially, quarterly monitoring of the wells by ENSR was initiated in August of 1989.

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? YES

Number: 5

Proper screened interval? YES

Highest GW depth below ground surface: 3.43 feet bgs

Lowest depth:

9.77

fect

bgs

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Flow direction: southeast

Gradient: 0.0013-0.0036 feet/foot

Most sensitive current use:

Are drinking water wells affected? NO

Aquifer name: San Leandro Alluvial Cone

Is surface water affected? NO

Nearest affected SW name: San Leandro Creek/San Francisco Bay

Off-site beneficial use impacts (addresses/locations):

none within 0.5 miles

Reports(s) on file? yes

Where is report(s) filed?

Alameda County Environmental Health Services

1131 Harbor Bay Pkwy #250 Alameda, CA 94502-6577

San Francisco Bay Region, RWQCB 2101 Webster Street, Suite 500

Oakland, CA 94612

California Environmental Protection Agency Department of Toxic Substances Control

700 Heinz Avenue, Suite 200

Berkeley, CA 94710

Treatment and Disposal of Affected Material:

<u>Material</u>

Amount (include units)

Action (Treatment of Disposal of Disposal w/destination)

Date

N/A

Maximum Documented Contaminant Concentrations -Before and After Cleanup

Contaminant	Soil (ppm	Water (ppb)							
	Before	After	Before	After					
TCE	NA	NA	9	5.6					
PCE	NA	NA	44	ND					
I,1-DCE	NA	NA	4.2	ND					
1,2-DCE	NA	NA	19	ND					
cis 1,2-DCE	NΛ	NA	21	18					
1,1-DCA	NA	NA	1	ND					
Vinyl Chloride	NA	NA	1.5	ND					
TPH as diesel	NA	NA	94,000	ND					
Benzene	NA	NA	7.3	ND					
Oil & Grease	NA	NA	2,000	ND					

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IV. CLOSURE

Does corrective action protect public health for current land use? NA

Site management requirements: NA

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommissioned: pending closure

Number Decommissioned: none

Number Retained: 5 pending closure

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VII: ADDITIONAL COMMENTS, DATA, ETC.

Quarterly Groundwater Analytical Results [All Units in Parts Per Billion (ppb)]

	Sample	Consultant	TCE	PCE	1.I-DCE	1.2 DOI:	i cis 1 2.	trans 1,2-	1.1 DO	372	0	-	_	
-1	Date				-,	(total)	DCE	DCE	1,1-1/03	1 Vinyi Oblazida	Gasonne	Diesel	Benzene	
						(10412)		DOL		Chloride	,			Grease
46	08/10/89		4.8	ND	ND	NΛ	NA	NA		ND	N/A	374		
**	11/07/89		3.7	ND	ND	ND	NA	NA	••	ND	NA	NA	ND	NA
"	07/27/90	ENSR	4.4	ND	ND	12.0	NΛ	NA			NA	NA	ND	NA
éc .	11/02/90	ENSR	5,0	ND	ND	ND	ND	ND		ND	NA	NA	ND	NA
æ	03/16/92		6.0	ND	ND	ND	NI)		-	ND	ND	NA	ND	NA
22	08/06/92		7.0	ND	ND	ND	מוא	ND		ND	NA	NΛ	מע	NΛ
64	12/10/92		8.0	ND	ND	ND		ND		ND	NA	NΛ	NA	NΛ
41	03/31/93		6.0	ND	ND		ND	ND		ND	NA	NΛ	ÑΑ	NΛ
t t	06/18/93		8.0	ND	ND	ND	ND	ND		ND	NΑ	NA	NΛ	NA
£¢.	09/17/93		9.0			ND	ND	ND		ND	NA	NA	NA	NΛ
**	12/28/93		•	ND	ND	ND	NIX	ND		ND	NA	NA	NA	NA
44	04/08/94		6.8	ND	ND	ND	ND	ND		ND	NA	NA	NA	NA
**			8.7	ND	ND	ND	ND	ND		ND	NA	NA	NA	NA
cc	10/12/194	Hygienetics	6.0	ND	ND	ND	0.61	ND	ND	ND	NΛ	NA	NΑ	NA
46	04/07/06	Hygicnetics	5.9	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
44	04/07/95	Hygienetics	8.0	ИD	ND	ND	MD	ND	ND	ND	NA	NA	NA	NΛ
e c	08/18/95	Hygienetics	4.5	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
4	12/15/95	Hygicnetics	6.3	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA NA
••	08/01/96	Hygienetics	5.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	
										,,,,,	14/1	MA	NA	NA
MW	Sample	Consultant	TCE	PCE 1	,1-DCE	1,2 DCE	cis 1.2-	trans 1.2.	1 1-100A	Vinul	Gosalina	Diagraf	D	es i s
MW -2	Sample Date	Consultant	TCE	PCE 1	,1-DCE	1,2 DCE (total)	cis 1,2- DCE	trans 1,2- DCE	1,1-DCA	Vinyl Chlorida	Gasoline	Diesel	Benzene	
-2	Date	Consultant	TCE	PCE 1	,1-DCE	1,2 DCE (total)	cis 1,2- DCE	trans 1,2- DCE	1,1-DCA	Vinyl Chloride	Gasoline	Diesel		Oil & Grease
-2 "	Sample Date 08/10/89	Consultant ENSR				(total)	DCE	DCE		Chloride			1	Grease
-2 u	Date	ENSR	9.0	מא	4.2	(total) 19.0	DCE NA	DCE NA		Chloride ND	ND	NA	6.I	Grease NA
-2 "	08/10/89	ENSR ENSR	9.0 4.9	UN DN	4.2 2.6	(total) 19.0 12.0	NA NA	DCE NA NA		Chloride ND ND	ND ND	NA NA	6.I 7.3	Greasc NA NA
-2 u	08/10/89 11/07/89 07/27/90	ENSR ENSR ENSR	9.0 4.9 ND	ND ND ND	4.2 2.6 ND	(total) 19.0 12.0 ND	NA NA NA	DCE NA NA NA		ND ND ND ND	ND ND ND	NA NA NA	6.1 7.3 ND	Grease NA
-2 u #	08/10/89 11/07/89 07/27/90 11/02/90	ENSR ENSR ENSR ENSR	9.0 4.9 ND 1.0	ND ON ON ON	4.2 2.6 ND ND	(total) 19.0 12.0 ND 3.9	NA NA NA NA 3.9	DCE NA NA NA ND		ND ND ND ND ND ND	ND ND ND ND	NA NA NA NA	6.I 7.3	Greasc NA NA
-2 8 8 0	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92	ENSR ENSR ENSR ENSR H+GCL	9.0 4.9 ND 1.0 3.0	UN ON ON ON ON ON	4.2 2.6 ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0	DCE NA NA NA ND ND		ND ND ND ND ND ND ND	ND ND ND ND ND	NA NA NA NA	6.1 7.3 ND	Grease NA NA NA
-2 H H H H	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92	ENSR ENSR ENSR ENSR H+GCL IH+GCL	9.0 4.9 ND 1.0 3.0 3.0	ND ON ON ON ON ON ON	4.2 2.6 ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND ND	NA NA NA 3.9 7.0 14.0	DCE NA NA NA ND ND ND ND		ND ND ND ND ND ND ND ND	ND ND ND ND	NA NA NA NA	6.1 7.3 ND ND	Grease NA NA NA NA
-2 B H H H	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL	9.0 4.9 ND 1.0 3.0 3.0 6.0	DA CA CA CA CA CA CA CA CA CA CA CA CA CA	4.2 2.6 ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND ND ND	NA NA NA 3.9 7.0 14.0 21.0	DCE NA NA NA ND ND ND ND ND ND		Chloride ND	ND ND ND ND ND	NA NA NA NA	6.1 7.3 ND ND ND	OTERSE NA NA NA NA NA NA
-2 8 8 8 11 8 11 11 11 11	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0	00 00 00 00 00 00 00 00 00 00 00 00 00	4.2 2.6 ND ND ND ND ND ND ND	(lotal) 19.0 12.0 ND 3.9 ND ND ND ND ND ND	NA NA NA 3.9 7.0 14.0 21.0	DCE NA NA NA ND ND ND ND ND ND ND		ND ND ND ND ND ND ND ND	ND ND ND ND ND NA	NA NA NA NA NA	6.1 7.3 ND ND ND ND	Orease NA NA NA NA NA NA NA
-2 "" "" "" "" "" "" "" "" "" "" ""	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0	84 85 85 85 85 85 85 85 85 85 85 85 85 85	4.2 2.6 ND ND ND ND ND 2.0 ND	(total) 19.0 12.0 ND 3.9 ND ND ND ND ND ND ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0	DCE NA NA NA ND ND ND ND ND ND ND ND ND		Chloride ND	ND ND ND ND ND NA NA	NA NA NA NA NA NA NA	6.1 7.3 ND ND ND NA NA NA	Orease NA
-2 B B B B B C C C C C C C C	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL	9.0 4.9 ND 1.0 3.0 6.0 2.0 3.0	33 33 33 33 33 33 33 33 33 33 33 33 33	4.2 2.6 ND ND ND ND ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0	DCE NA NA NA ND		Chloride ND	ND ND ND ND ND NA NA	NA NA NA NA NA NA NA	6.1 7.3 ND ND ND NA NA NA	Oreasc NA NA NA NA NA NA NA NA
-2 18 18 18 18 18 18 18 18 18 18 18 18 18	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93	ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL II+GCL	9.0 4.9 ND 1.0 3.0 6.0 2.0 3.0 3.0 3.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.2 2.6 ND ND ND ND ND ND ND ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0	DCE NA NA NA ND ND ND ND ND ND ND ND ND		Chloride ND	ND ND ND ND NA NA NA NA	NA NA NA NA NA NA NA NA	6.1 7.3 ND ND ND NA NA NA NA	Oreasc NA NA NA NA NA NA NA NA NA
-2 H H H K L L L L L L L L L L L L	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL II+GCL II+GCL	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0 3.0 3.0 3.0	55 55 55 55 55 55 55 55 55 55 55 55 55	4.2 2.6 ND ND ND ND ND ND ND ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0	DCE NA NA NA ND		Chloride ND	ND ND ND ND NA NA NA NA	NA NA NA NA NA NA NA NA	6.1 7.3 ND ND ND NA NA NA NA	Oreasc NA
-2 H H H H T L L L L L L L L L L L L L L	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 07/27/94 I	ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL II+GCL	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0 3.0 3.0 3.6 1.9 2.3	866666666666666666666666666666666666666	4.2 2.6 ND ND ND ND ND ND ND ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7	DCE NA NA NA ND		Chloride ND	ND ND ND ND NA NA NA NA	NA NA NA NA NA NA NA NA NA	6.1 7.3 ND ND ND NA NA NA NA NA	Oreasc NA
-2 H H H H R L L L L L L L L L L L L L L L	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 07/27/94 1 12/15/94 1	ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL Hygicnetics Hygienetics	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0 3.0 3.0 3.6 1.9 2.3 1.3	4 4 4 5 5 5 5 5 5 5 5 5 6 5 6 5 6 7 7 7 7 7 7	4.2 2.6 ND ND N	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0	NA N	 0.73	Chloride ND	ND ND ND ND NA NA NA NA NA NA	NA	6.1 7.3 ND ND NA NA NA NA NA NA	Orease NA
-2 H H H H H C C C C C C C C C C C C C C	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 07/27/94 I 12/15/94 I 04/07/95 I	ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL Hygicnetics Hygienetics Hygienetics	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0 3.0 3.6 1.9 2.3 1.3 2.6	888888888888888888888888888888888888888	4.2 2.6 ND ND ND ND ND ND ND ND ND ND ND ND ND	(total) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0 12.0	NA N	 0.73	Chloride ND	ND ND ND ND NA NA NA NA NA NA	NA N	6.1 7.3 ND ND NA NA NA NA NA NA	Orease NA NA NA NA NA NA NA NA NA N
-2 H H H H H C C C C C C C C C C C C C C	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 07/27/94 I 12/15/94 I 04/07/95 I 08/18/95 I	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL Hygicnetics Hygienetics Hygienetics Hygienetics	9.0 4.9 ND 1.0 3.0 3.0 6.0 2.0 3.0 3.6 1.9 2.3 1.3 2.6 2.4	4 4 4 5 5 5 5 5 5 5 5 5 6 5 6 5 6 7 7 7 7 7 7	4.2 2.6 ND ND N	(lotal) 19.0 12.0 ND 3.9 ND	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0 12.0 18.0	DCE NA		Chloride ND N	ND ND ND NA NA NA NA NA NA	NA N	6.1 7.3 ND ND NA NA NA NA NA NA NA	Grease NA NA NA NA NA NA NA NA NA N
-2 H H H H K K K K K K K K K K	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 12/15/94 I 04/07/95 I 08/18/95 I 12/15/95 I	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL II+GCL Iygicnetics Iygienetics Iygienetics Iygienetics	9.0 4.9 ND 1.0 3.0 3.0 3.0 3.0 3.0 3.6 1.9 2.3 1.3 2.6 2.4 2.8	888888888888888888888888888888888888888	4.2 2.6 ND ND ND 2.9 ND ND N	(lotal) 19.0 12.0 ND 3.9 ND N	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0 12.0 18.0 19.0	DCE NA N		Chloride ND N	ND ND ND NA NA NA NA NA NA NA NA	NA N	6.1 7.3 ND ND NA NA NA NA NA NA NA	Orease NA NA NA NA NA NA NA NA NA N
-2 H H H H H C C C C C C C C C C C C C C	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 12/15/94 I 04/07/95 I 08/18/95 I 12/15/95 I	ENSR ENSR ENSR ENSR H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL H+GCL Hygicnetics Hygienetics Hygienetics Hygienetics	9.0 4.9 ND 1.0 3.0 3.0 3.0 3.0 3.0 3.6 1.9 2.3 1.3 2.6 2.4 2.8	88888888888888888888888888888888888888	4.2 2.6 NN NN	(lotal) 19.0 12.0 NO 3.9 NO N	NA NA NA 3.9 7.0 14.0 21.0 10.0 7.0 16.0 7.7 11.0 12.0 19.0 19.0	DCE NA		Chloride ND N	ND ND ND NA NA NA NA NA NA	NA N	6.1 7.3 ND ND NA NA NA NA NA NA NA	Grease NA NA NA NA NA NA NA NA NA N

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07/27/90 ENSR ND ND ND ND ND ND ND ND ND NA	C	V Sample Consultant TCE PCB 1 Date	(total)	cis 1,2- DCH	trans 1,2- DCE	1,1-DCA	Vinyl Chloride	Gasoline	[Piesel	Benzene	Oil & Grease
11/07/89 ENSR ND NA)		ND	ND	ND		XII)	\$14	374		
07/27/90 ENSR ND NA)	11/07/89 ENSR ND ND									NA
11/02/90 ENSR ND ND ND ND ND ND ND ND NA	_	07/27/90 ENSR ND ND								ND	NA
" 03/16/92 H+GCL ND ND ND ND ND ND ND ND NA		8.4.20.8.20.0 mm								ND	NΛ
" 08/06/92 H+GCL NA		00444104					_		NA	ND	NΛ
12/10/92 H+GCL NA		A	-					NA	NA	ND	NΛ
" 03/31/93 H+GCL NA	-	444644						NΛ	NA	NA	NA
" 06/18/93 H+GCL NA						NΛ	NA	NA	ÑΑ	NA	NΛ
" 09/17/93 11+GCL NA							NA	NA	NΛ	NA	NA
" 12/28/93 H+GCL NA	-	The second section of the second section second sec		NA	NΑ	NA	NA	NA	NA		NA
" 04/08/94 H+GCL NA			NΛ	NA	NA	NA	NA	NΛ	NA		NA
" 07/27/94 Hygienetics NA	1		NA	NΛ	NA	NA		NA			NΛ
" 12/15/94 Hygienetics NA	Ł		NA	NΛ	NA	NA					NA
" 04/07/95 Hygienetics NA		U//2//94 Hygienetics NA NA	NA	NΛ	NA						
" 04/07/95 Hygienetics NA		12/15/94 Hygienetics NA NA	NA	NA						_	NΛ
" 08/18/95 Hygienetics NA		04/07/95 Hygicnetics NA NA	NΛ	NA							NA
		08/18/95 Hygienetics NA NA									NA
" 12/15/95 Hygienetics NA		12/15/95 Hygienetics NA NA			-						NA
" 08/01/96 Hypienetics NA NA NA NA NA NA NA		08/01/96 Hygienetics NA NA							_	NA	NA
OBOTION HYGIERENICS NA	•	,0	**/-3	741.7	11/4	INA	NA	NΛ	NA	NΛ	NA

M₩ -4	Sample Date	Consultant	TCE	PCE :	1,1-DCE	1,2 DCE (total)	cis 1,2- DCE	trans 1,2- DCE		Vinyl Chloride	Gasoline	Dicsel	Benzene	Oil & Grease
ec 11 ti 15 st 11 ti 15	08/10/89 11/07/89 07/27/90 11/02/90 03/16/92 08/06/92 12/10,11/92 03/31/93 06/18/93 09/17/93 12/28/93 04/08/94 07/27/94 1	H+GCL H+GCL H+GCL	ND ND 1.5 4.0 2.0 1.0 ND 2.5 0.71 0.62 ND	ND ND ND 44.0 25.0 18.0 31.0 14.0 6.0 4.6 2.9 1.0 2.1	8888888888888888	(total) ND N		DCE 222222222222222222222222222222222222	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Chloride ND	ND ND ND ND NA NA NA NA NA	ND ND ND ND 87 ND 240 ND ND ND ND ND ND ND ND	ND OIN OIN OIN NA NA NA NA NA NA NA	NA N
## 1 5 5 11	04/07/95] 08/18/95] 12/15/95]	Hygieneties Hygieneties Hygieneties Hygieneties	ND ND 0.8	1.0 ND ND ND	ND ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND	ND ND ND ND	ND ND ND ND	NA NA NA NA NA	ON ON ON ON ON ON	NA NA NA NA NA	NA NA NA NA NA

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Leaking Underground Fuel Storage Tank Program

MW	Sample	Consultant	TCE	PCF	1,1-DCE	1,2 DCE	cis 1,2-	trans 1,2-	1,1-DCA	Vinyi	Gasoline	Diesel	Benzene	Oil &
-,	Date					(total)	DCE	DCE		Chloride		2.0001		Grease
	08/10/89	ENSR	ND	ND	5.2	ND	NΛ	NA)TD					-
**	11/07/89		ND	ND	ND	ND	NΛ		ND	ND	NA	ND	ND	2,000
11	07/27/90		ND	ND	ND	ND		NA	ND	ND	NA	94,000	ND	ND
n	11/02/90		ND	ND			NΛ	NA	ND	ND	NA	ND	ND	ND
11	03/16/92				ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
**	08/06/92		ND	ND	ND	ND	עא	NI)	ND	ND	NA	250	ND	NA
**			NA	NΛ	NA	NA	NA	NA	NA	NA	NA	190	NA	NA
11	12/10/92	H+GCI.	NA	NΛ	NA	NA	NΛ	NA	NA	NΛ	NA	250	NΛ	NA NA
11	03/31/93	H+GCI.	NA	NA	NA	NA	NΛ	NA	NA	NΛ	NA	ND	NΛ	
	06/18/93	H+GCI.	NA	NA	ŇΑ	NA	NΛ	NA	NA	NΛ	NA	200	NA NA	NA
"	09/17/93	H+GCL	NΛ	NA	NΛ	NA	NΛ	NA	NA	NA	NA	ND		NA
11	12/28/93	H+GCL	NΛ	NA	NA	NA	NA	NA	NA	NA			NA	NA
**	04/08/94	H+GCL	NA	NA	NA	NΛ	NA	NA	NA		NA	ND	NΛ	NA
H	07/27/94	Hygienctics	NA	NΛ	NA	NΛ	NA	NA		NA	NΛ	ND	NA	NA
11	12/15/94	Hygicnetics	NA	NΑ	ΝA	NA	NΛ		NΛ	NA	NA	ND	NA	NA
H	04/07/95	Hygienetics	NΛ	NA	NΛ		_	NA	NA	NA	NA	ND	NA	NΛ
Ħ	02/12/05	llygicnetics	TATA			NA	NΛ	NA	NA	NΛ	NA	ND	ŇΑ	NA
1 1	10/16/00	Train A	IVA.	NΛ	NA	NA	NA	NA	NΑ	NA	NΑ	ND)	NA	NA
et	12(12)%), 00/\130c:	Hygicnetics	NA	ΝΛ	NA	NA	NΑ	NA	NΛ	NA	NΛ	NA	NΛ	NA
	08/01/80	Hygicnetics	NÁ	NΛ	NA	NΛ	NA	NA	NΛ	NA	NΛ	ND	NΛ	NA

Page 7 of 7 Leaking Underground Fuel Storage Tank Program

SUMMARY

Dissolved concentrations of purgeable halocarbons and petroleum hydrocarbons in the groundwater have been intermittently detected in samples collected in 1989, 1990, 1992 and 1993. For the most recent sampling event on August 1, 1996, groundwater samples had detectable concentrations of purgeable halocarbons TCE and cis 1,2-DCE. PCE was not detected in groundwater samples for the third time since the March 1992 sampling event. TPH as diesel was not detected in groundwater samples collected from monitoring wells MW-4 and MW-5. Since the previous groundwater monitoring event, the groundwater flow direction has remained the same with flow to the southeast.

The pattern of VOC concentrations in groundwater collected from the on-site monitoring wells suggest that the source or sources is off-site. In general, if PCE was spilled biodegradation should form TCE, cis 1,2-DCE, trans 1,2-DCE, and vinyl chloride in increasing amounts. However, the patterns on-site suggest possible multiple off-site VOC sources.

The San Leandro Plume Site Investigation, under the direction of the Cal-EPA Department of Toxic Substances Control (DTSC), has indicated that several chlorinated solvents, such as solvents and degreasers commonly used by industry since the 1940s, are present in groundwater. According to the February 1995 DTSC San Leandro Plume Public Participation Plan, these include PCE, TCE, trichloroethanc (TCA), DCE and related compounds. VOCs have been detected at levels significantly above the MCLs. PCE has been detected at up to 3,200 ppb, TCE at up to 8,100 ppb, and cis-1,2-DCE at up to 1,700 ppb. Metals detected above the MCLs include chromium, nickel, and lead. Nitrate contamination is widespread.

The investigations concluded that the largest groundwater contamination plume in the study area was a mile wide and up to two and one-half miles long, extending towards the San Francisco Bay. The depth of the contamination was not determined but is known to exceed 100-feet deep at some locations. The plume underlies a major industrial area of the city and impinges on an established residential area. Several small plumes have also been identified which appear to be migrating westward from locations cast (Caterpillar site) and southeast (Williams Street site) of the subject site. The PCE concentration identified at 800 Davis Street appears to be migrating from an unidentified upgradient source (HLA 1990, HLA 1991).

Assumed groundwater flow in the area is to the west/southwest, investigation in the site vicinity have documented groundwater flow in the south/southeast possibly from tidal influences.

Considering no on-site chlorinated solvent USTs were utilized at the site and only low levels of VOCs have been detected in groundwater, it appears that the subject site has been impacted by the regional groundwater contamination plume or plumes.

Since 1989, groundwater monitoring has been conducted at this site and because halogenated hydrocarbons are readily sorbed to silt and clay and slowly desorbs, VOC concentrations on the subject property probably will not significantly decrease overtime, unless off-site up-gradient sources are remediated.