

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

June 2, 1994
STID# 1385

Mr. Dante Sambajon
Coulter Steel & Forge Company
1494 67th Street
P.O. Box 8008
Emeryville CA 94662- 0901

**RE: Status of the Investigation / Remediation Related to the
Underground Storage Tank (Diesel) at 722 Folger Avenue,
Emeryville, California 94608**

Dear Mr. Sambajon:

The Alameda County Department of Environmental Health, Hazardous Materials Division has recently reviewed the Progress Report - Well Installation/ Soil Remediation/ Groundwater Monitoring (November 1993 Event) and the Quarterly Groundwater Monitoring Report - Sampling Event (February 1994) prepared and submitted by Subsurface Consultants, Inc. for the referenced site.

Based on this review, the sampling data collected to date have been evaluated and the following monitoring program can be implemented for the site:

- 1) Monitoring wells MW-4, MW-5, MW-8 must be sampled **every quarter** for target compounds.
- 2) Monitoring well MW-6 can be dropped from the sampling program. This well has not detected at or above reporting limit any level of TPH diesel, benzene, toluene, ethyl benzene for six sampling events but minor concentrations of xylene was found during two sampling events at 0.7 ppb and 2.0 ppb. If monitoring well MW-4 will show any level above the detection limits for TPH diesel and BTEX, then **MW-6 must be sampled** during that monitoring event.
- 3) Monitoring well MW-3 which is a cross-gradient well can be sampled **every six months** instead of every quarter.
- 4) The following target compounds must be incorporated in the monitoring program: TPH diesel, benzene, ethyl benzene, toluene, and xylene.
- 5) Groundwater elevation measurements must be performed in all the wells every quarter to establish groundwater gradient and flow direction at the site.

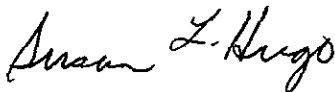
Mr. Dante Sambajon
RE: 722 Folger Avenue, Emeryville, CA 94608
June 2, 1994
Page 2 of 2

Until cleanup is complete, you will need to submit reports to this office every three months or at a more frequent interval, if specified at any time. In addition, the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or work plan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

Please contact me at (510) 271-4530 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Kevin Graves, San Francisco Bay RWQCB
Edgar B. Howell, Chief, Hazardous Materials Division - files
Jerriann Alexander, Subsurface Consultants, Inc.
171 12th Street, Suite 201
Oakland, CA 94607

Table 2.
TEH and BTEX Concentrations in Groundwater

<u>Sample</u>	<u>Date</u>	<u>TEH</u> <u>ug/l</u>	<u>B</u> <u>ug/l</u>	<u>T</u> <u>ug/l</u>	<u>E</u> <u>ug/l</u>	<u>X</u> <u>ug/l</u>
MW-3	5/15/92	100	<0.5	<0.5	<0.5	2.5
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/04/93	<50	<0.5	<0.5	<0.5	<0.5
	6/08/93	<50	<0.5	<0.5	<0.5	<0.5
	11/04/93	60	<0.5	0.6	<0.5	1.2
	02/23/94	1600	<0.5	<0.5	<0.5	<0.5
MW-4	5/15/92	10,000	<0.5	<0.5	<0.5	4.0
	8/18/92	300	<0.5	<1.0	<0.5	<0.5
	3/04/93	<50	<0.5	<0.5	<0.5	<0.5
	6/08/93	190	<0.5	<0.5	<0.5	<0.5
	11/04/93	<50	0.5	0.5	<0.5	0.9
	02/23/94	<50	<0.5	<0.5	<0.5	<0.5
MW-5	5/15/92	510	<0.5	<1.0	<0.5	<0.5
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/05/93	1,400	<0.5	<0.5	<0.5	<0.5
	6/08/93	1,300	<0.5	<0.5	<0.5	<0.5
	11/04/94	930	<0.5	0.5	<0.5	0.9
	02/23/94	3,100	<0.5	<0.5	<0.5	<0.5
MW-6	5/15/92	<50	<0.5	<0.5	<0.5	2.0
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/04/93	<50	<0.5	<0.5	<0.5	<0.5
	6/08/93	<50	<0.5	<0.5	<0.5	<0.5
	11/04/93	<50	<0.5	<0.5	<0.5	0.7
	02/23/94	<50	<0.5	<0.5	<0.5	<0.5
MW-8	12/06/93	<50	<0.5	<0.5	<0.5	<0.5
	02/23/94	<50	<0.5	<0.5	<0.5	<0.5

ug/l = micrograms per liter, parts per billion

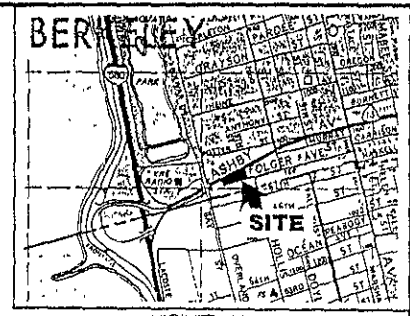
TEH = Total extractable hydrocarbons

B = benzene

T = toluene

E = ethylbenzene

X = xylenes



VICINITY MAP

ASHBY AVENUE

1600 FWD TPHd
ND-BTEX

1700 FWD TPHd
ND-BTEX

SHED

ND = TPHd & BTEX

12.0' 13.0' 14.0' 15.0'






5'3" / 00' FWD TPHd

ND = TPHd & BTEX

CITY SURVEY
MONUMENT

FOLGER AVENUE

722 FOLGER AVENUE

-  MONITORING WELL
-  EXTENT OF PREVIOUS EXCAVATION
-  FENCE
-  PREVIOUS TANK LOCATION
-  GROUNDWATER FLOW CONTOURS (feet)




SITE PLAN		
722 FOLGER AVENUE - BERKELEY, CA	JOB NUMBER 727 001	DATE 2/23/94
Subsurface Consultants	APPROVED 	PLATE 1

Table 1.
Groundwater Elevation Data

<u>Well</u>	<u>TOC Elevation¹ (feet)</u>	<u>Date</u>	<u>Groundwater Depth² (feet)</u>	<u>Groundwater Elevation (feet)</u>
MW-3	24.70	5/15/92	11.15	13.55
		7/01/92	11.60	13.10
		8/18/92	12.00	12.70
		3/04/93	9.79	14.91
		6/08/93	10.47	14.23
		11/04/93	12.05	12.65
		12/06/93	11.62	13.08
		02/23/94	10.12	14.58
MW-4	23.92	5/15/92	10.00	13.92
		7/01/92	11.26	12.66
		8/18/92	11.58	12.34
		3/04/93	9.39	14.53
		6/08/93	10.01	13.91
		11/04/93	11.53	12.39
		12/06/93	11.11	12.81
		02/23/94	9.63	14.29
MW-5	23.85	5/15/92	10.52	13.33
		7/01/92	9.93	13.92
		8/18/92	9.24	14.61
		3/05/93	7.72	16.15
		6/08/93	8.31	15.54
		11/04/93	10.33	13.52
		12/06/93	9.91	13.94
		02/23/94	8.23	15.62
MW-6	22.98	5/15/92	12.46	10.52
		7/01/92	12.96	10.02
		8/18/92	13.42	9.56
		3/04/93	11.60	11.38
		6/08/93	12.34	10.64
		11/04/93	13.62	9.36
		12/06/93	13.08	9.90
		02/23/94	11.78	11.20
MW-8	23.85	12/06/93	9.07	14.15
		02/23/94	7.93	15.92

¹ Reference datum is City of Berkeley Survey Monument on Folger Avenue as shown on Site Plan

² Measured below top of casing

Table 1.
Groundwater Elevation Data

<u>Well</u>	<u>TOC Elevation¹ (feet)</u>	<u>Date</u>	<u>Groundwater Depth² (feet)</u>	<u>Groundwater Elevation (feet)</u>
MW-3	24.70	5/15/92	11.15	13.55
		7/01/92	11.60	13.10
		8/18/92	12.00	12.70
		3/04/93	9.79	14.91
		6/08/93	10.47	14.23
		11/04/93	12.05	12.65
		12/06/93	11.62	13.08
		02/23/94	10.12	14.58
MW-4	23.92	5/15/92	10.00	13.92
		7/01/92	11.26	12.66
		8/18/92	11.58	12.34
		3/04/93	9.39	14.53
		6/08/93	10.01	13.91
		11/04/93	11.53	12.39
		12/06/93	11.11	12.81
		02/23/94	9.63	14.29
MW-5	23.85	5/15/92	10.52	13.33
		7/01/92	9.93	13.92
		8/18/92	9.24	14.61
		3/05/93	7.72	16.15
		6/08/93	8.31	15.54
		11/04/93	10.33	13.52
		12/06/93	9.91	13.94
		02/23/94	8.23	15.62
MW-6	22.98	5/15/92	12.46	10.52
		7/01/92	12.96	10.02
		8/18/92	13.42	9.56
		3/04/93	11.60	11.38
		6/08/93	12.34	10.64
		11/04/93	13.62	9.36
		12/06/93	13.08	9.90
		02/23/94	11.78	11.20
MW-8	23.85	12/06/93	9.07	14.15
		02/23/94	7.93	15.92

¹ Reference datum is City of Berkeley Survey Monument on Folger Avenue as shown on Site Plan

² Measured below top of casing