

SS HAY -3 PM 1: 19

May 1, 1995 SCI 727.001

Mr. Dante Sambajon Plant Engineer Coulter Steel and Forge Company 1494 - 67th Street Emeryville, California 94662-0901

Groundwater Monitoring March 1995 Event Former Diesel Fuel Tank Area 722 Folger Avenue Emeryville, California

Dear Mr. Sambajon:

This letter records the results of the March 1995 monitoring event conducted by Subsurface Consultants, Inc. (SCI) for the groundwater monitoring program at the referenced site. Five monitoring wells have been periodically sampled in the vicinity of a former diesel fuel tank since May 1992. The previous tank area and well locations are shown on the attached Site Plan, Plate 1.

Groundwater Monitoring

The groundwater monitoring program for this site was modified by the ACHCSA in June 1994. As modified, the program requires the following:

- Wells MW-4, MW-5 and MW-8 will be monitored for Total Extractable Hydrocarbons (TEH) and BTEX every quarter.
- If well MW-4 shows detectable levels of contaminants, then samples from well MW-6 must be analyzed.
- 3. MW-3 is to be monitored for TEH and BTEX biannually.

Subsurface Consultants, Inc.

Mr. Dante Sambajon Coulter Steel and Forge Company May 1, 1995 SCI 727.001 Page 2

A biannual groundwater monitoring was conducted on March 9, 1995. Initially, the depth to groundwater and the presence of free product were checked in all five wells with a steel tape, and water and petroleum product sensitive pastes. Groundwater level measurements are presented on Table 1.

Prior to sampling, the wells were purged of at least three well volumes of water. Measurements of water temperature, pH and conductivity were recorded at various intervals during the purge process. Well sampling forms are attached.

The depth to water in each well was checked, following purging and before sampling, to assure that the wells had recharged to at least 80 percent of their initial volume. The wells were then sampled using new disposable bailers. The samples were retained in containers pre-cleaned by the supplier in accordance with EPA protocol. The samples were placed in an ice filled cooler and transmitted to Curtis & Tompkins, Ltd. The testing program for this event included the following analyses:

- 1. Total Extractable Hydrocarbons as diesel (TEH) (EPA 5030/8015), and
- 2. Benzene, toluene, ethylbenzene and xylene (BTEX) (EPA 5030/602).

The results of all analytical testing events are presented on Table 2. Analytical test reports and Chain-of-Custody documents for the current event are attached.

Conclusions

Groundwater Gradient

Based on the data presented on Table 1, it appears that the groundwater gradient remains consistently toward the west. Groundwater contours for this event are presented on the site plan.

Diesel Contamination

In general, the data indicates that groundwater in a limited area around the previous tank site has been impacted by TEH within the diesel range. The upgradient and downgradient extent of the plume have been well defined.

In accordance with the monitoring program, the next sampling event will be performed during the month of June 1995. During that month, a quarterly event will be performed.

Mr. Dante Sambajon Coulter Steel and Forge Company May 1, 1995 SCI 727.001 Page 3

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Jeriann N. Alexander

Civil Engineer 40469 (expires 3/31/95)

FV:JNA:RWR:sld

2 copies submitted

Attachments: Table 1 - Groundwater Elevations

Table 2 - Summary of Contaminants in Groundwater

Site Plan - Plate 1 Analytical Test Reports

Chain-of-Custody Documents Groundwater Sampling Forms

cc:
Ms. Susan Hugo

Hazardous Materials Specialist Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Rich Hiett Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, California 94612

Table 1.
Groundwater Elevation Data

<u>Well</u>	TOC Elevation (feet)	<u>Date</u>	Groundwater Depth (feet)	Groundwater Elevation (feet)
MW-3	24.70	5/15/92	11.15	13.55
	-	7/1/92	11.60	13.10
		8/18/92	12.00	12.70
		3/4/93	9.97	14.91
		6/8/93	10.47	14.23
		11/4/93	12.05	12.65
		12/6/93	11.62	13.08
		2/23/94	10.12	14.58
		6/9/94	10.98	13.72
		9/7/94	11.83	12.87
		12/16/94	9.96	14.74
		3/9/95	8.86	15.84
MW-4	23.92	5/15/92	10.00	13.92
		7/1/92	11.26	12.66
		8/18/92	11.58	12.34
		3/4/93	9.39	14.53
		6/8/93	10.01	13.91
		11/4/93	11.53	12.39
		12/6/93	11.11	12.81
		2/23/94	9,63	14.29
		6/9/94	10.47	13.45
		9/7/94	11.31	12.61
		12/16/94	9.48	14.44
		3/9/95	8.72	15.20
MW-5	23.85	5/15/92	10.52	13.33
		7/1/92	9.93	13.92
		8/18/92	9.24	14.61
		3/5/93	7.72	16.15
		6/8/93	8.31	15.54
		11/4/93	10.33	13.52
		12/6/93	9.91	13.94
		2/23/94	8.23	15.62
		6/9/94	9.09	14.76
		9/7/94	9.95	13.90
		12/16/94	7.98	15.87
		3/9/95	7,33	16.52

Table 1.
Groundwater Elevation Data

<u>Well</u>	TOC Elevation (feet)	<u>Date</u>	Groundwater Depth (feet)	Groundwater Elevation (feet)
MW-6	22.98	5/15/92	12.46	10.52
		7/1/92	12.96	10.02
		8/18/92	13.42	9.56
		3/4/93	11.60	11.38
		6/8/93	12.34	10.64
		11/4/93	13.62	9.36
		12/6/93	13.08	9.90
		2/23/94	11.78	11.20
		6/9/94	12.73	10.25
		9/7/94	13.52	9.46
		12/16/94	11.69	11.29
		3/9/95	11.02	11.96
MW-8	23.85	12/6/93	9.07	14.15
		2/23/94	7.93	15.92
		6/9/94	8.60	15.25
•		9/7/94	9.39	14.46
		12/16/94	7.78	16.07
		3/9/95	7.82	16.03

TOC = Top of casing

Elevation reference = City of Berkeley Survey Monument of Folger Avenue at the Location Shown on the Site Plan

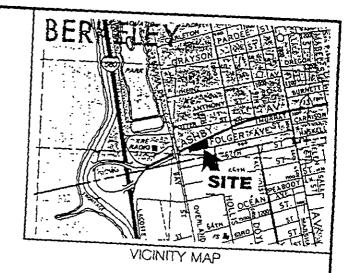
Table 2. TEH and BTEX Concentrations in Groundwater

		TEH	В	т	E	X
Sample	<u>Date</u>	ug/l	ug/l	<u>uq/l</u>	<u>ug/l</u>	<u>uq/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
	3/4/93	<50	<0.5	<0.5	<0.5	<0.5
	6/8/93	<50	<0.5	<0.5	<0.5	<0.5
	11/4/93	60	<0.5	0.6	<0.5	0.21
	2/23/94	1600	<0.5	<0.5	<0.5	<0.5
	9/7/94	900	<0.5	<2	<0.5	<0.5
	3/13/95	310	<0.5	<0.5	<0.5	<0.5
	F (4 F (0.0	40.000	40 E	40 E	<0.5	5
MW-4	5/15/92	10,000	<0.5	<0.5	<0.5 <0.5	<0.5
	8/18/92	300	<0.5	<1.0	<0.5 <0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5
	6/8/93	190	<0.5	<0.5 0.5	<0.5 <0.5	0.9
	11/4/93	<50	0.5 <0.5	<0.5	<0.5 <0.5	<0.5
	2/23/94	<50	<0.5 <0.5	<0.5	<0.5	<0.5
	6/9/94	530 440	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5
	12/16/94 3/13/95	410	<0.5 ≪0.5	>0.5 ≤0.5		<0.5
	100 (10 of 82)	750				
MW-5	5/15/92	510	<0.5	<1.0	<0.5	<0.5
	3/5/93	1,400	<0.5	<0.5	<0.5	<0.5
	6/8/93	1,300	<0.5	<0.5	<0.5	<0.5
	11/4/94	930	<0.5	0.5	<0.5	0.9
	2/23/94	3,100	<0.5	<0.5	<0.5	<0.5
	6/9/94	310	<0.5	<0.5	<0.5	<0.5
	9/7/94	1100	<0.5	<2	<0.5	<0.5
	12/19/94	690	<0.5	<0.5	<0.5	<0.5
	3/14/95	590	₹0.5	≼0.5	≼0.5	<0.5
					10 F	•
MW-6	5/15/92	<50	<0.5	<0.5	<0.5	2
	8/18/92	<50	<0.5	<1.0	<0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5	< 0.5
	6/8/93	<50	<0.5	<0.5	<0.5	<0.5
	11/4/93	<50	<0.5	<0.5	<0.5	0.7
	2/23/94	<50	<0.5	<0.5	<0.5	<0.5
	6/9/94	<50	<0.5	<0.5	<0.5	<0.5
	9/7/94	< 50	<0.5	<2	<0.5	<0.5
	12/16/94	<50	<0.5	 ***********************************	 	
	3/13/95	<50	<0.5	€0.5	<0.5	<0.5
MW-8	12/6/93	<50	<0.5	<0.5	<0.5	<0.5
	2/23/94	<50	<0.5	<0.5	< 0.5	<0.5
	6/9/94	<50	<0.5	<0.5	<0.5	<0.5
	9/7/94	<50	<0.5	<2	<0.5	<0.5
	12/16/94	<0.5	<0.5	<0.5	<0.5	<0.5
	3/13/95	9.5.7. 84 9.556	<0.5	<0.5	<0.5	≮0.5
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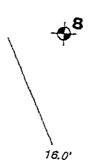
ug/l = micrograms per liter, parts per billion TEH = Total extractable hydrocarbons

B = benzene

T = toluene









MONITORING WELL



EXTENT OF EXCAVATION



FENCE



PREVIOUS TANK LOCATION

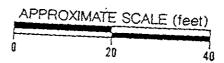


GROUNDWATER FLOW CONTOURS (feet)

15.0

MARCH 1995





SITE PLAN

22 FOLGER AVENUE - BERKELEY, CA

NUMBER -7.001

DATE 5/2/95 APPROVED

1

PLATE



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants 171 12th Street Suite 201 Oakland, CA 94608

Date: 17-MAR-95 Lab Job Number: 120253

> Project ID: 727.001 Location: Coulter Steel

Reviewed by:

Reviewed by: Tues. K

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Berkeley Irvine



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: COULTER STEEL

DATE SAMPLED: 03/13,14/95

DATE RECEIVED: 03/14/95
DATE EXTRACTED: 03/16/95
DATE ANALYZED: 03/16/95
DATE REPORTED: 03/17/95

BATCH NO:19473

Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
120253-001	MW-3	**	310*	50
120253-002	MW-4	**	750	50
120253-002	MW-5	**	590*	50
120253-005	MW-8	ND	84*	50
METHOD BLANK	C NA	ND	ND	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

* Sample chromatogram does not resemble diesel standard.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY: BS/BSD



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001 LOCATION: COULTER STEEL DATE SAMPLED: 03/13,14/95
DATE RECEIVED: 03/14/95
DATE ANALYZED: 03/14/95
DATE REPORTED: 03/17/95

BATCH NO:19448

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	REPORTING LIMIT
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
120253-001	MW-3	ND	ND	ND	ND	0.5
120253-001	MW-4	ND	ND	ND	ND	0.5
120253-003	MW-5	ND	ND	ND	ND	0.5
120253-005	8-WM	ND	ND	ND	ND	0.5
METHOD BLAN	K N/A	ND	ИD	ИD	ND	0.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: MS/MSD

RPD, %
RECOVERY, %
108

SAMPLE SPIKED: 120253-002

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants 171 12th Street Suite 201 Oakland, CA 94608

Date: 28-MAR-95

Lab Job Number: 120339 Project ID: 727.001

Location: Coulter Steel

Reviewed by:

Reviewed by:

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Berkeley Irvine



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: COULTER STEEL

DATE SAMPLED: 03/13/95

DATE RECEIVED: 03/14/95 DATE ANALYZED: 03/21/95

DATE REPORTED: 03/28/95

BATCH NO: 19549

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)	REPORTING LIMIT (ug/L)
120339-001	MW-6	ND	ND	ND	ND	0.5
METHOD BLANI	X N/A	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY: MS/MSD of 120340-001

RPD, %	3
RECOVERY, %	114



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: COULTER STEEL

DATE SAMPLED: 03/13/95
DATE RECEIVED: 03/14/95
DATE EXTRACTED: 03/23/95

DATE ANALYZED: 03/25/95 DATE REPORTED: 03/28/95

BATCH NO: 19624

Extractable Petroleum Hydrocarbons in Aqueous Solutions California DOHS Method LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
120339-001	MW-6	ND	ND	50
METHOD BLANK	N/A	ND	ИD	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

QA/QC SUMMARY: MS/MSD of 120285-007

RPD, %

RECOVERY, %

84



VERBAL ADDITIONS/CANCELLATIONS TO ANALYSIS REQUEST SHEET

Client: SC	Date:	3/21			
Requested By: Ternando Veley	Time:		AM_	150	PM
Recorded By: MBy					

Current Lab ID	<u> </u>	Circle	C'E44		
(Previous Lab ID)	Client ID	Matrix	Specify add or cancel	Analysis	Due Date
]	(water)	or cancer	0.210.7	
120339-001	4.1.	2011		K1XE	
120339-001	MW-6	oil waste	1		13/10/
(126253-004)		other		BTXE	120
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GROUNDWATER DEPTHS

100/181

	- · · · · ·		
Job No.: 727.00			
Measured by: DWA			·
Well Date	Time	Groundwater Depth (feet)	Comments
MW-3 3/9/95	11:43a.m.	8.86'	
Mw-4 1	11:30a.m.	8.72'	·
MW-5	11:23a.m.		
Mw-6.	11:36a.m.	11.02'	
MW-8 +	11:55a.m.	7.82'	
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		WELL	SAMPLING FOR	M	
Project Name:	Coulter	Steel	Weil Nu	mber: <u>M</u> W	-3
Job No.:	727.00)	Well Ca	sing Diameter:	2 inch
Sampled By:	DWA		Date: _	3 13 9:	5
TOC Elevation:			Weathe	r: <u>cloudy</u>	
Depth to Casing Bo	ttom (below T	OC)		>	
Depth to Groundwater (below TOC)			8.84	·	feet
Feet of Water in We	ell ———		21.14	<u> </u>	feet
Depth to Groundwa	ter When 80%	6 Recovered	13.09		feet
Casing Volume (fee	et of water x C	asing DIA 2 x	0.0408) <u>3.5</u>		gailons
Depth Measuremen	nt Method	Tape &	Paste / Electr	onic Sounder	/ Other
Free Product	•				
Purge Method	disp	osable bo	aites		
			EASUREMENTS		
Gallons Removed	pН	Temp (%)	Conductivity (micromhos/cm)	Salinity S%	Comments
	697	59.4			murky/slight odo
4	6.89		1125		
φ	6.91	60.4	1175		
8	6.90	60.9	1185		
	6.76	59.6	_1220		
Total Gallons Purge	d				gallons
Depth to Groundwat	ter Before Sa	mpling (below	roc) <u>13</u> .	09	feet
Sampling Method	dis	oosable b	paifer		
Containers Used	<u>3</u>	<u> </u>	liter	pint	
			<u> </u>		PLATE
Subsurface	e Cons	ultants	IOD MILLIONS	DATE	APPROVED

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					-4	
Job No.: 727.001			Well Ca	Well Casing Diameter: 2 inch		
Sampled By:	DWA	***	Date: _	3 13 95		
TOC Elevation:			Weathe	r: <u>Cloudy</u>	<u></u>	
			22.00			
Depth to Groundwa	ter (below TO	C)	8.72	<u>, </u>	feet	
					feet	
					feet	
Casing Volume (fee	et of water x C	asing DIA 2 x (0.0408)	1	gallons	
Depth Measuremer	nt Method	Tape &	Paste / Electr	onic Sounder	/ Other	
Free Product	none					
Purge Method	dispo	sable ba	iles			
		<u> </u>	EASUREMENTS	·		
Gallons Removed			(micromhos/cm)		Comments	
	7.64		315		mulky/Slighto	
<u> </u>	<u>7-62</u> 10.80	<u> 585</u> 59.8	<u>375</u> 825			
	6.00	60.2	1000			
	<u>Q-t-1</u>	<u> </u>				
Total Gallons Purge	$\frac{7}{7}$				gallons	
	ter Before Sar	npling (below 1	(1.38)		fee	
Depth to Groundwa	1.	iposable	bailer			
Depth to Groundwa Sampling Method	<u>dis</u>	7000 OC				
•	3	·				
Sampling Method		·	liter	pint		
Sampling Method	3	·		pint	PLATE	

Project Name: _	Coulter	Steel	Well N	lumber: <u>M</u>	J-5	
			Well C			inch
Sampled By:	DWF	<u> </u>	Date:	3/13/	9.5	
TOC Elevation: _			Weath	er: <u>Cloud</u>	ty	
Depth to Casing E	Bottom (below T	OC)	19-5	0		_ feet
Depth to Groundwater (below TOC)				3		
Feet of Water in V	Vell		12.17	7		_ feet
Depth to Groundy	vater When 80%	6 Recovered	9.74	,		_ feet
			0.0408)2	0	······	gallons
			Paste Elec		/ Other	
Free Product						
Purge Method			aites			
Gallons Removed O 2 4	pH 7.16 7.13 6.77		Conductivity (micromhos/cm) 2150 885	Salinity S%	1 - 1	nents Slight Wishe
<u></u>	6.78	59.4	1025			
Total Gallons Purç			9.63'	@ 1:15pm. on 3	1/14/95	gallons
	rater Before Sai			1		100
·	1:00		7 1	:		
Depth to Groundw Sampling Method		asie our	1		·	
·	<u>dispos</u> 3		liter	pint		

1 1 THE P.

		WELL	SAMPLING FOR	М	
Project Name:	ulter s	Steel_	Well Nu	mber: <u>M</u> W-	6
Job No.: 727	-001	<u>.</u>	Well Ca	sing Diameter:	2 inch
Sampled By:D	ωA		Date: _	3/13/95	
TOC Elevation:			Weathe	r: <u>doud</u>	Y
Depth to Casing Bottom					
Depth to Groundwater (below TOC)			11.02		feet
Feet of Water in Well -	<u></u>	<u></u>			feet
Depth to Groundwater V	V hen 80% I	Recovered	14.52		feet
Casing Volume (feet of	water x Cas	sing DIA 2 x (0.0408) <u>2. 8.</u>	5	gallons
Depth Measurement Me					
Free Product					
Purge Method	disp	osable	baiter		
		FIELD M	EASUREMENTS		
<u>z</u> -			Conductivity (micromhos/cm) 1120 1105		Comments Mulky Ino od
8	7.31	59.8	1075		
Total Gallons Purged _	9				gallons
Depth to Groundwater B	_	,		<u> </u>	fee
Sampling Method	tet	Ion bai	les	<u>.</u>	
Containers Used	3 40 ml		liter	pint	
			<u> </u>		PLATE

Subsurface Consultants JOB NUMBER

	WELLS	SAMPLING FORM		
Project Name: Could	en Steel	Well Number	: <u>M</u> W-	8
Job No.: 727	1.00	Well Casing	Diameter:	2 inch
Sampled By:	WA	Date:	3 13 95	
TOC Elevation:		Weather:	cloudy	
Depth to Casing Bottom (be				
Depth to Groundwater (belo	ow TOC)	7.82		feet
Feet of Water in Well		13.18		feet
Depth to Groundwater Whe	en 80% Recovered _	10.46		feet
Casing Volume (feet of wat	ter x Casing DIA 2 x 0	.0408)		gallons
Depth Measurement Metho				
Free Product				
Purge Method				
		EASUREMENTS		
Gallons Removed p	F oH Temp(%e)		alinity S%	Comments
	97 61.7	950 -		chalnood
3 7.6		975		
	37 61.7	<u> 1000</u> <u> </u>		
	26 61.8	1025		
Total Gallons Purged	7			gallons
Depth to Groundwater Befo	ore Sampling (below T	OC)8.4	43'	fee
4		•		
Sampling Method	ethon bailer			
, , ,	ellon bailer	1		
Sampling Method	3 40 ml	liter p	int	
, , ,	_	liter p	int	PLATE