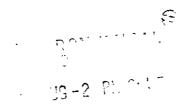


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July 27, 1995 SCI 727.001

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

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

Dear Mr. Sambajon:

This letter records the results of the June 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:

- 1. 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 July 27, 1995 SCI 727.001 Page 2

A groundwater monitoring event was conducted on June 14, 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 September 1995. During that month, a biannual event will be performed.

Mr. Dante Sambajon Coulter Steel and Forge Company July 28, 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 3/31/99)

FV:JNA:RWR:sld

2 copies submitted

Attachments: Table 1 - Groundwater Elevations

Table 2 - Summary of Contaminants in Groundwater

. 4

Site Plan - Plate 1 Analytical Test Reports

Chair of Chatada Domar

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

34

<u>Well</u>	TOC Elevation (feet)	<u>Date</u>	Groundwater Depth <u>(feet)</u>	Groundwater Elevation (feet)
MW-3	24.70	5/15/92	11.15	13.55
	21	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
		6/14/95	10.40	14.30
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
		6/14/95	9.85	14.07
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
		6/14/95	8.40	1545

Table 1.
Groundwater Elevation Data

<u>Well</u>	TOC Elevation (feet)	<u>Date</u>	Groundwater Depth (feet)	Groundwater Elevation (feet)
<u> </u>	(Icer)	<u> </u>	110011	Trans
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
		6/14/95	11.95	11.03
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
		6/14/95	8.30	15.55

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
<u>Sample</u>	<u>Date</u>	<u>ug/l</u>	<u>uq/l</u>	<u>uq/l</u>	<u>uq/l</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
	3/4/93	<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
					٠,	_
MW-4	5/15/92	10,000	<0.5	<0.5	<0.5	5
	8/18/92	300	<0.5	<1.0	<0.5	<0.5
	3/4/93	<50	<0.5	<0.5	<0.5	<0.5
	6/8/93	190	<0.5	<0.5	<0.5	<0.5
	11/4/93	<50	0.5	0.5	<0.5	0.9
	2/23/94	<50	<0.5	<0.5	<0.5	<0.5
	6/9/94	530	<0.5	<0.5	<0.5	<0.5
	12/16/94	410	<0.5	<0.5	<0.5	<0.5
	3/13/95	750	<0.5	<0.5	<0.5	<0.5
	6/14/95	9000	1.1	<0.5	<0.5	0.9
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
	6/14/95	4600	<0.5	<0.5	<0.5	<0.5
	-2	. 22.59954. 2.2200 0000000), it is to the property of the second control of the second contr	-1.1200000000000000000000000000000000000		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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
	6/14/95	<50	<0.5	<0.5	<0.5	<0.5

Table 2.
TEH and BTEX Concentrations in Groundwater

		TEH	В	T	E	X
Sample	<u>Date</u>	<u>uq/l</u>	<u>uq/l</u>	<u>ug/l</u>	<u>uq/l</u>	<u>ug/l</u>
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	84	<0.5	<0.5	<0.5	<0.5
	6/14/95	81*	<0.5	<0.5	<0.5	<0.5

ug/l = micrograms per liter, parts per billion

TEH = Total extractable hydrocarbons

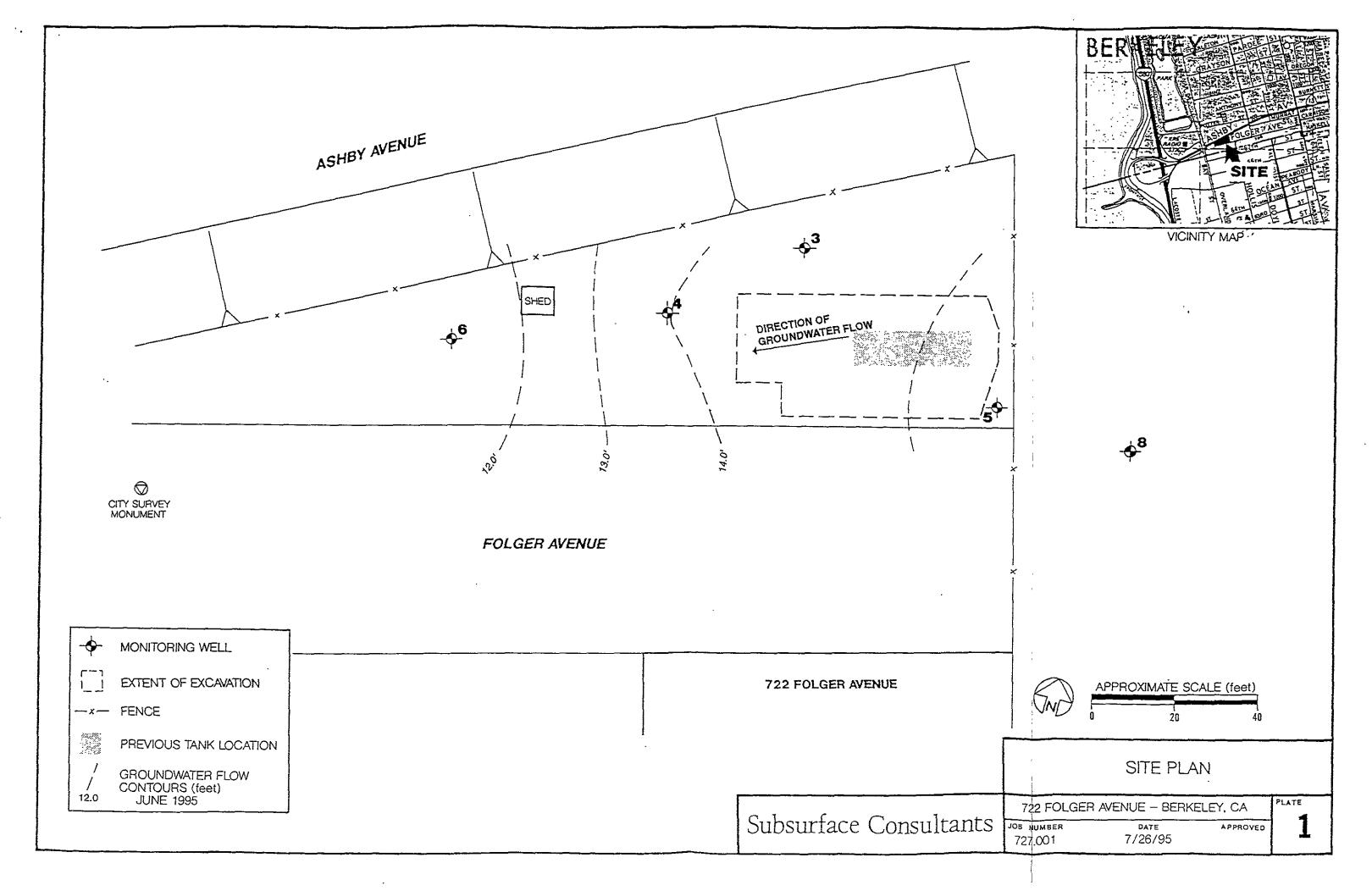
B = benzene

T = toluene

E ≈ ethylbenzene

X ≈ xylenes

^{* =} Method blank contamination indicates high bias in sample result





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: 05-JUL-95

Lab Job Number: 121400 Project ID: 727.001

Location: Coulter Steel

Reviewed by:

Reviewed by:

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1/

LABORATORY NUMBER: 121400

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: COULTER STEEL

DATE SAME Curtis & Tompkins, Ltd. 06/14,15/95

DATE RECEIVED: 06/15/95
DATE EXTRACTED: 06/20/95

DATE ANALYZED: 06/30/95 DATE REPORTED: 07/05/95 DATE REVISED: 07/10/95

BATCH NO: 21398

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

LAB ID	CLIENT ID	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
121400-001	MW-4	9,000	50
121400-002	MW-5	4,600	50
121400-004	MW-8	81*	50
METHOD BLANK	N/A	120	50

ND = Not detected at or above reporting limit.

* Method Blank contamination indicates high bias in sample result.

QA/QC SUMMARY: BS/BSD

RPD, %
RECOVERY, %
85

LABORATORY NUMBER: 121400

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001

LOCATION: COULTER STEEL

DATE SAMPLED: 06/14,15/95

Curtis & Tompkins, Ltd.

DATE RECEIVED: 06/15/95
DATE ANALYZED: 06/17/95

DATE ANALYZED: 06/17/95 DATE REPORTED: 07/05/95

BATCH NO: 21325

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)
121400-0 121400-0 121400-0	02 MW-5	1.1 ND ND	ND ND ND	ND ND ND	0.9 ND ND	0.5 0.5 0.5
METHOD B	LANK	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY: BS/BSD

RPD. %	4
RECOVERY, %	99



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

2323 Fifth Street, Berkeley, CA 9471O, Phone (510) 486-0900

ANALYTICAL REPORT'

Prepared for:

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

Date: 23-JUL-95

Lab Job Number: 121783 Project ID: 727.001

Location: Coulter Steel

Reviewed by:

Reviewed by:

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Berkeley Irvine



LABORATORY NUMBER: 121783

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 727.001 LOCATION: COULTER STEEL DATE SAMPLED: 06/14/95 DATE RECEIVED: 06/15/95 DATE ORDERED: 07/17/95 DATE ANALYZED: 07/18/95 DATE REPORTED: 07/23/95

BATCH NO.: 22010

Total Volatile Hydrocarbons with BTXE in Aqueous Solutions TVH by California DOHS Method/LUFT Manual October 1989 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (Ug/L)	BENZENE (ug/L)	TOLUENE ·	(nd\r) BENZENE ETHAR	TOTAL XYLENES (Ug/L)
121783-001	MW-6	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
METHOD BLAN	K N/A	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

NOTE: The sample was analyzed after the technical holding time.

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY: MS/MSD of 121567-007

LCS RECOVERY, %	106
RPD, %	2
RECOVERY, %	113



VERBAL ADDITIONS/CANCELLATIONS TO ANALYSIS REQUEST SHEET

Client SCI	Date:	7/17/95	_	. -
Requested By: Fernando Velen	Time:	AM	1:10	PM
Recorded By: MRP				-50

Current Lab ID		Circle	Specify add	Analysis	Due Date
(Previous Lab ID)	Client ID	Matrix	or cancel		<u> </u>
121783-001	MW-6	soil waste oil other	+	TUH BTXE	7/24
()		water soil waste oil other			
()		water soil waste oil other			
()		water soil waste oil other			
()		water soil waste oil other			
()		water soil waste oil other			

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PROJECT CONTAC	Ten	2	3	AL K	<u>!</u> !!	Steel LAB: CLIPTS & Tompkins: **EXANDLEY TURNAROUND: Normal REQUESTED BY: Teri Alexander																															
LABORATORY		MA	XINT	: 	 		CON	ITAI	INERS	,				METHOD ESERVED					SAN	APL:	NG	DAT	E			# #	1 3	X T									
LO. NUMBER	SAMPLE NUMBER	WATER	SOIL	WASTE	AIA			VOA		TNIG.	TUBE		HZ.	H2SQ*	HNO3	301	NONE	МО	NTH	D/	\Y \\	YE	Λħ		ТІМІ	=	NOTES	1	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							_	
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GROUNDWATER DEPTHS

Project Name	<u> </u>	outter	Stu	<u></u>
Job No.:			001	
Measured by	· · · · · ·	00	Du	
Weil	Date	Time	Groundwater Depth (feet)	Comments
mw-3	6/14/95		10.40	Do not sample
MW-5	1 6/11/as		9.85	,
MW-5	c/14/ex		タンカ	
NW 6	5/12/95		11.95	
MW 8	Glics		8.30	
				•
	-			
<u> </u>			•	
<u> </u>				·
			•	
		200		
		<u> </u>		

Job No.:	<u> </u>	Well Ca	sing Diameter:	inch
Sampled By:	e i		<u> </u>	
TOC Elevation:		Weathe	r:	<u>:</u>
				g f
Depth to Casing Bottom (be	elow TOC)	21.0	2	feet
Depth to Groundwater (bel-	ow TOC)	~	~	feet
Feet of Water in Well			·	feet
Depth to Groundwater Whe	en 80% Recovered			feet
Casing Volume (feet of war	ter x Casing DIA 2 x	0.0408)		gailons
Depth Measurement Metho	od Tape &		onic Sounder /	Other
Free Product	, ' '	, <u>',</u> ,,;		
Purge Method	A CONTRACTOR OF THE PARTY OF TH	* 12 h	21/	
1 arge mealod		EASUREMENTS		
				Comments
Gallons Removed p	FIELD M	EASUREMENTS Conductivity		
Gallons Removed p	FIELD M Temp (°c) Temp (°c)	EASUREMENTS Conductivity		Comments
Gallons Removed P	FIELD M Temp (°c) 1.50	Conductivity (micromhos/cm)		Comments
Gallons Removed	FIELD M Temp (°c) A A Temp (°c) Temp (°c) Temp (°c)	Conductivity (micromhos/cm)		

WELL SAMPLING FORM

WELL SAMPLING FORM

Project Name: (In the 15 for	Well Number:	mws
Joh No. 727-001	Well Casing Diamete	$\frac{2}{1}$ inch
Sampled By:	Date:	14,05
TOC Elevation:	Monther	1 Carrier
	a	± \$
Depth to Casing Bottom (below TOC)	19.50	feet
Depth to Groundwater (below TOC)		feet
Feet of Water in Well		feet
Depth to Groundwater When 80% Recovered		feet
Casing Volume (feet of water x Casing DIA 2		
Depth Measurement Method Tape		
700 made 2000		
Purge Method	Day Mertin	
FIELD	MEASUREMENTS	
Gallons Removed pH Temp (°C	Conductivity (micromhos/cm) Salinity S	6% Comments
2 600 000	7720 —	
4 100 100 100 100 100 100 100 100 100 10		
8 10 348		
10 11.09 14.0	<u> </u>	
Total Gallons Purged	10	gallons
Depth to Groundwater Before Sampling (belo	w TOC) ————	feet
Sampling Method	beiler	
Containers Used 3		-
40 mi	liter pint	
		PLATE
Subsurface Consultan	LS JOB NUMBER DATE	PLATE APPROVED

WELL SAMPLING FORM

Project Name: Couror tool	Well Number:	<i>U</i> 4
100 No.: 121.001	Well Casing Diameter:	<u>2</u> inch
Sampled By:	Date:(3/14/1	
TOC Elevation:	Weather: <u>Allies</u>	
TOO Clevation.		2. P
Depth to Casing Bottom (below TOC)	72.00	feet
Depth to Groundwater (below TOC)	9.85	feet
Feet of Water in Well		feet
Depth to Groundwater When 80% Recovered		feet
Casing Volume (feet of water x Casing DIA 2 x 0.040)	8)	gailons
Depth Measurement Method Tape & Paste	/ Electronic Sounder /	Other
Free Product		
Free Product	Director	
	te Harris and the second	
Purge Method	# <i>Jerry</i>	
Purge MethodFIELD MEAS		
Purge MethodFIELD MEAS	UREMENTS Conductivity	
Purge Method FIELD MEAS Gallons Removed pH Temp (°c) (m	Conductivity icromhos/cm) Salinity S%	Comments
Purge Method FIELD MEAS Gallons Removed pH Temp (°c) (m	UREMENTS Conductivity	
Purge Method FIELD MEAS Gallons Removed pH Temp (°c) (m	Conductivity icromhos/cm) Salinity S%	
FIELD MEAS Gallons Removed pH Temp (°c) (m	Conductivity icromhos/cm) Salinity S%	
FIELD MEAS Gallons Removed pH Temp (°c) (m	Conductivity icromhos/cm) Salinity S%	
FIELD MEAS Gallons Removed pH Temp (°c) (m 100 100 100 100 100 100 100 100 100 10	Conductivity icromhos/cm) Salinity S%	
FIELD MEAS Gallons Removed pH Temp (°c) (m. 10.00) 10.00 10.00 10.00 10.00 Total Gallons Purged	Conductivity sicromhos/cm) Salinity S%	Comments
FIELD MEAS Gallons Removed pH Temp (°c) (m 100 100 100 100 100 100 100 100 100 10	Conductivity sicromhos/cm) Salinity S%	Comments
FIELD MEAS Gallons Removed pH Temp (°c) (m A A A A A A A A A A A A A A A A A A A	Conductivity sicromhos/cm) Salinity S%	Comments
FIELD MEAS Gallons Removed pH Temp (°c) (m A A A A A A A A A A A A A A A A A A A	Conductivity sicromhos/cm) Salinity S%	Comments
FIELD MEAS Gallons Removed pH Temp (°c) (m A A A A A A A A A A A A A A A A A A A	Conductivity sicromhos/cm) Salinity S%	Comments
FIELD MEAS Gallons Removed pH Temp (°c) (m A A A A A A A A A A A A A A A A A A A	Conductivity icromhos/cm) Salinity S%	Comments gallons feet

Project Name: Control Steel Job No.: 127.001	Well Nu	mber: 100 C	06
Job No.: 127.00/			<u> </u>
	Well Ca	sing Diameter:	inch
Sampled By: 8024	Date: _	1/14/0	<u> </u>
TOC Elevation:	Weather	r. <u> </u>	<u> </u>
	2		; f
Depth to Casing Bottom (below TOC)	25	28.50	feet
Depth to Groundwater (below TOC)	11.95		feet
Depth to Casing Bottom (below TOC) Depth to Groundwater (below TOC) Feet of Water in Well	15.05		feet
Depth to Groundwater When 80% Recovered .			feet
Casing Volume (feet of water x Casing DIA 2 x 0	0.0408)		gallons
Depth Measurement Method Tape & F	Paste / Electro	onic Sounder /	Other
Free Product			
Purge Method - 12-F/n.	2 per ley		
Gallons Removed pH Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
1 7.16 696	<u> </u>		
- 1/2 1/20 1/20 1/20 1/20 1/20 1/20 1/20	1000000		
	1550		
Total Gallons Purged	10		gallons
Depth to Groundwater Before Sampling (below, T	roc) ,———		fee
Sampling Method	<u> </u>		
Containers Used 40 mi	liter	pint	
			PLATE
 			