# **HEALTH CARE SERVICES**

#### **AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

March 4, 1996

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda CA 94502-6577 (510) 567-6700

STID 4336

#### REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Brock Settlemeir Bigge Crane and Rigging Company 10700 Bigge Avenue San Leandro, CA 94577

RE: BIGGE CRANE AND RIGGING COMPANY, 10700 BIGGE AVENUE, SAN LEANDRO - PARCELS 1 AND 2

Dear Mr. Settlemeir:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located on Parcels 1 and 2 at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If a change in land use is proposed, the owner <u>must</u> promptly notify this agency.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,

Jun Makishima

ken Makwhine

Acting Director of Environmental Services

cc: Gordon Coleman, 'Acting Chief, Env. Protection Division Kevin Graves, RWQCB

Mike Harper, SWRCB

Mike Bakaldin, San Leandro Fire Department

Files

SIGNED

CALIFORNIA REGIONAL WATER

DEC 0 4 1995

QUALITY CONTROL BOARD

### CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

#### I. AGENCY INFORMATION

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250

Date: 12/01/95

City/State/Zip: Alameda, CA 94502

Phone: (510) 567-6700 Title: Sr. Haz. Mater: Responsible staff person: Scott Seery Sr. Haz. Materials Spec.

#### II. CASE INFORMATION

Site facility name: {Bigge Crane and Rigging Company

Site facility address: 10700 Bigge Ave., San Leandro, CA 94577 RB LUSTIS Case No: N/A Local Case No./LOP Case No. 4336 URF filing date: 3/5/92 SWEEPS No: N/A

Addresses: Responsible Parties: Phone Numbers:

Bigge Development Company 10700 Bigge Street

San Leandro, CA 94577

Brock Settlemier 10700 Bigge Street

Bigge Crane & Rigging Co. San Leandro, CA 94577 510-638-8100

<u>Tank</u>	<u>Size in</u>	<u>Contents:</u>	<u>Closed in-place</u>	<u>Date:</u>
No:	<u>gal.:</u>		or removed?:	
1	10,000	diesel	removed	9-30-91
2	10,000	II	п	11
3	10,000	gasoline	II	11
4	1000	virgin oil	11	II
5	500	waste oil	11	11

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: UNK

Site characterization complete? YES

Date approved by oversight agency: 12/94

Monitoring Wells installed? YES Number: 3 (+ 4 HP pts.)

Proper screened interval? YES - however 3rd MW construction unknown

Highest GW depth below ground surface: 6.94' Lowest depth: 8.58'

Flow direction: N to NE - towards San Leandro Creek

Most sensitive current use: commercial/industrial

Are drinking water wells affected? NO Aquifer name: San Leandro cone

#### Page 2 of 5

#### Leaking Underground Fuel Storage Tank Program

Is surface water affected? NO Nearest affected SW name: NA Off-site beneficial use impacts (addresses/locations): NA

Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material: Amount <u>Material</u> Action (Treatment Date of Disposal w/destination) (include units) Tank 3x10,000; 1000; 500 gal <u>disposal</u> - Erickson 9/30/91 Richmond, CA Piping UNK Free Product NA  $\sim 1720 \text{ yds}^3$ treatment/reuse on-site Soil 1991-1995 treatment/disposal -9/27/95 - $\sim$  635 yds<sup>3</sup> BFI Vasco Rd., Livermore 10/2/95 Groundwater NA Barrels NA

# III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppr	n)	Water (p	(dg
	<u>Before </u>	<u>After</u>	Before1 _	After4
TPH (Gas)	350	ND	110,000	ND
TPH (Diesel)	720	160	NA	11
Benzene	10	$\mathbf{N}\mathbb{D}$	190	11
Toluene	16	II .	67	1.0
Xylene	25	U	860	1.8
Ethylbenzene	5.1	II .	36	ND
Oil & Grease <sup>2</sup>	1100	NA	${ m ND}^5$	NA
Heavy metals	[SEE Note	e 3]	li .	II.
Other: HVOC2	ND	NA	11	O

#### NOTES:

- "Before" soil <u>and</u> water results for TPH-G/-D and BTEX from fuel UST complex, Parcel 1. Results are for *initial* post-UST closure samples, except where otherwise indicated.
- 2) "Before" O & G and HVOC results from virgin oil and waste oil UST pits, respectively, Parcel 2.
- 3) All metals concentrations in "before" soil sample from waste oil UST pit (Parcel 2) at apparent geogenic concentrations.
- 4) "After" water samples collected from temporary well points located adjacent to the former fuel UST complex, Parcel 1.
- 5) "Before" O & G result from initial water sample collected from MW-2, Parcel 2.

#### Page 3 of 5

#### Leaking Underground Fuel Storage Tank Program

#### Comments (Depth of Remediation, etc.):

PARCEL 1 - During September 1991, three (3) fuel USTs (2 diesel, 1 gasoline) were removed from Parcel 1 under SLFD oversight. Ground water (GW) was present in the excavation at a depth of ~ 12' below grade (BG). Although it has been reported that the USTs appeared in "good shape," initial soil and water samples confirmed that an unauthorized release had occurred.

An initial round of overexcavation ensued, expanding the UST pit both laterally (primarily to the north) and vertically to GW. Approximately 2300 yds<sup>3</sup> of material was excavated in the process and stockpiled on-site for later "treatment." Hydrocarbon (HC) concentrations in sidewall soil samples collected at the overexcavation limits actually *increased* (up to 1000 ppm TPH-D, 15 ppm benzene) vs. those in initial post-closure samples.

As a result of the overexcavation sample results, a subsequent round of overexcavation occurred during May 1993 in an attempt to remove these apparent "hot spots" along the south flank and north corner of the excavation. An additional ~ 55 yds³ were removed and stockpiled in the process. Confirmation sidewall samples indicate a marked decrease in residual (capillary fringe) soil concentrations, with a maximum of 160 ppm TPH-D with no detectable BTEX.

Following on-site "treatment" (passive bio), approximately 1720 yds³ of previously-excavated material was placed back into the former fuel UST excavation. Following requirements of the RWQCB set forth in correspondence dated 1/6/93, only material with residual concentrations of <10 ppm TPH and nondetectable BTEX was allowed for reuse. Such material was to be placed at depths above GW levels to minimize contact with GW. It has been reported that porous media (ballast rock) was placed at the base of the excavation prior to introduction of the treated soil above. The remaining ~ 635 yds³ were transported to the BFI Vasco Rd. landfill (Livermore) for disposal during the summer of 1995.

PARCEL 2 - Two oil USTs (1 waste oil, 1 virgin oil) were removed from Parcel 2 during September 1991 under SLFD oversight. No apparent release was associated with the waste oil UST. However, a release was apparent with the virgin oil UST: underlying soil was discolored and elevated O&G levels (1100 ppm) were identified in initial samples. Discolored soil was excavated (volume unreported) and the pit resampled: all samples were below detection limits for chosen target compounds (TPH-D, BTEX).

It is unclear whether GW was encountered in either the waste oil or virgin oil UST pits, as there are conflicting data.

#### Page 4 of 5

### Leaking Underground Fuel Storage Tank Program

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommisioned: NONE (pending case closure)

Number Decommisioned: 0 Number Retained: 3

List enforcement actions taken: NONE

List enforcement actions rescinded: NONE

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery

Signature:

Reviewed by

Name: Juliet Sh

Signature: - letics

Name: Eva/Chu

Signature:

Title: Sr. Haz Mat Specialist

Date: 1/- 30-9

Title: Sr. Haz Mat Specialist

Date: ///30/95

Title: Haz Mat Specialist

Date: 12/1/95

VI. RWOCB NOTIFICATION

Date Submitted to RB: 12-1-7

RWQCB Staff Name: Kevin Gr

RB Response:

Title: San. Engineering Asso. Da

VII. ADDITIONAL COMMENTS, DATA, ETC.

Subsequent to UST removals and overexcavation activities, two initial GW wells were constructed during February 1993. One well (MW-1) was installed next to the fuel UST pit, and the second (MW-2) next to the virgin oil UST

#### Page 5 of 5

### Leaking Underground Fuel Storage Tank Program

pit. Well locations were reportedly based on the anticipated regional GW flow direction (SW). The "anticipated" flow direction did not account, however, for the fact that San Leandro Creek lies ~ 250' north of the site, a likely controlling influence.

GW was encountered at an approximate depth of 14' (MW-1) and 10' BG (MW-2). Low (<30 ppm) concentrations of TPH-D and TPH-mo were noted in soil samples collected at the 10' depths in borings MW-1 and -2, respectively. BTEX were absent from these soil samples.

Both wells were sampled with  $\underline{no}$  target compounds detected ( $\underline{SEE}$  attached data tables).

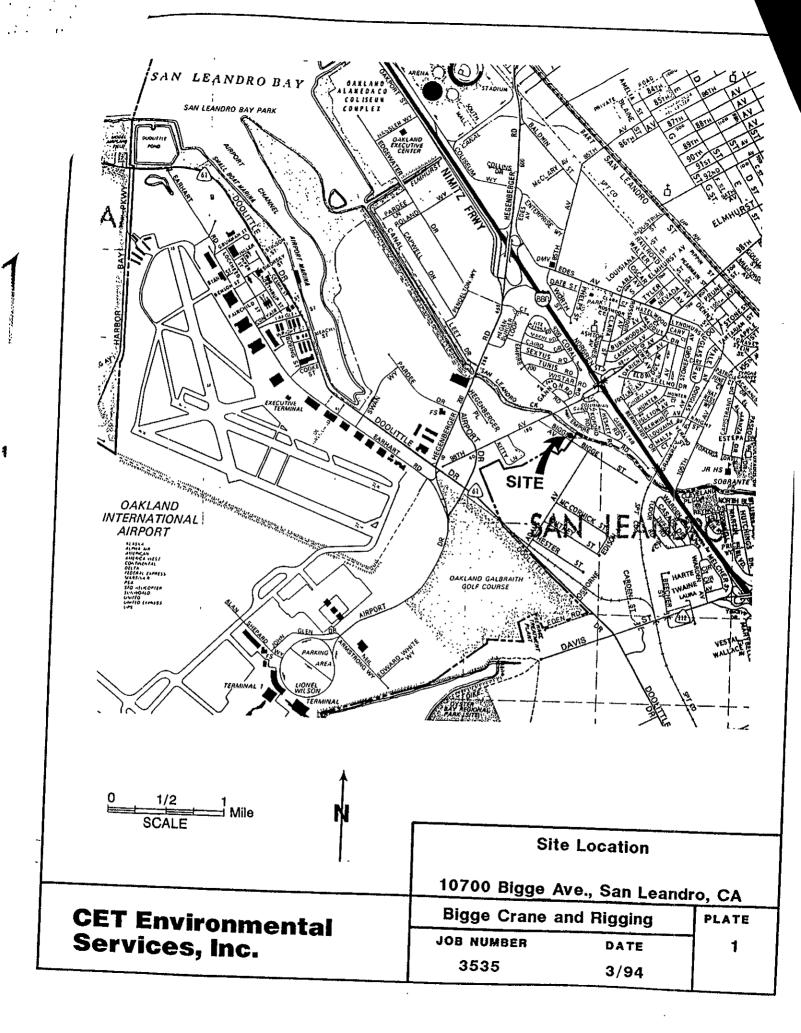
A third well (MW-3), or, rather, piezometer, was installed ~250' north of the fuel UST pit during May 1993. This task was performed absent oversight of either the consultant or ACDEH. Its construction, as indicated in the driller's report, appears to differ markedly from that of MW-1 and -2 with respect to screen interval and placement.

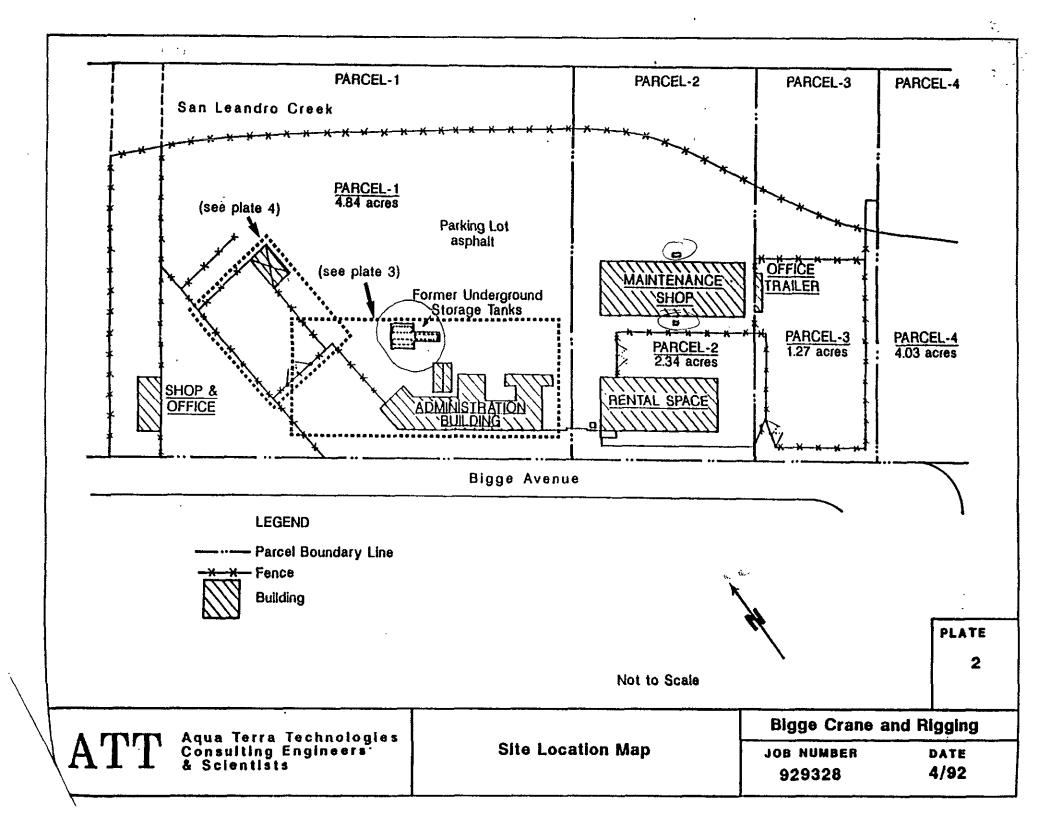
Both wells and the piezometer were surveyed relative to mean sea level (MSL). GW elevation measurements collected between July 1993 and February 1994 from the three points confirmed a GW flow direction consistently toward San Leandro Creek (north).

Wells MW-1 and -2 were again sampled during June and October 1993, and February 1994. Well MW-3 was sampled both during October 1993 and February 1994. All samples were "ND" for target compounds.

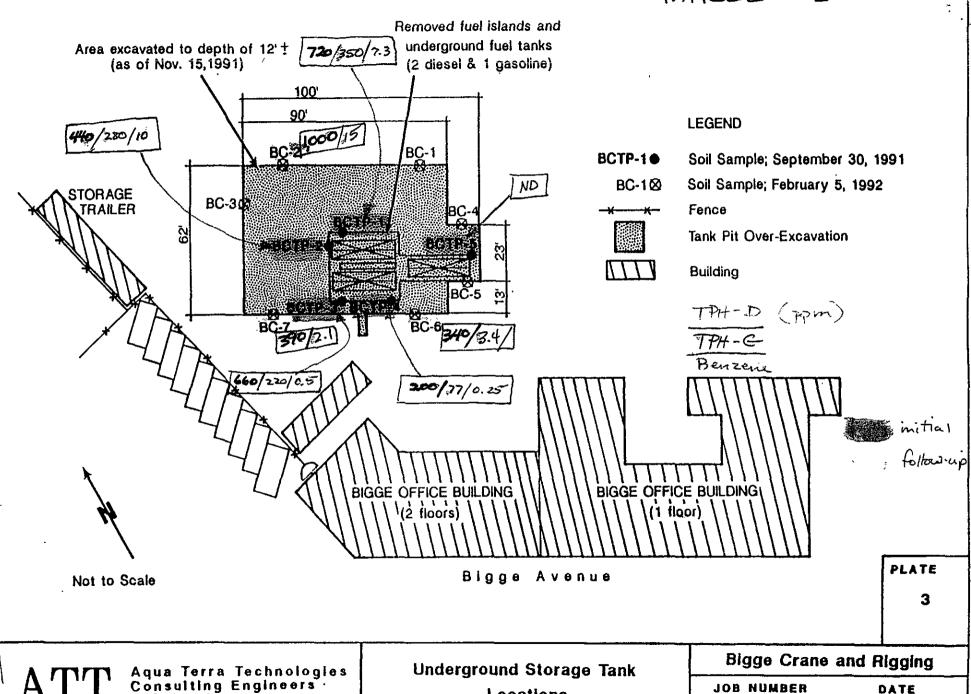
During July 1994, four temporary well points were installed along two diverging lines trending north from the fuel UST pit: two well points were located within 30' of the subject pit, the second two points "stepped-out" approximately 60' further. GW samples were collected from each temporary well point, although only the samples from the two points closest to the UST pit were analyzed. The results indicate low-to-nondetectable concentrations of TPH and BTEX in sampled GW.

Removal of fuel-impacted soil from the area surrounding the former UST complex appears to have ensured the long-term attenuation and migration control of dissolved fuel constituents in GW derived from the release at this site.





# PARCEL - 1



Consulting Engineers . & Scientists

Locations

929328

4/92

Table 1.

Chemical Data Summary - Soils Sampling Date: 09/30/91

Bigge Crane & Rigging Company

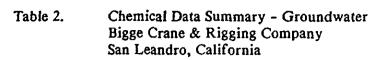
San Leandro, California

INITIAL SAMPLES

Sample No.	Sample Location	TPH/d <sup>a</sup> (mg/Kg) <sup>e</sup>	TPH/g <sup>b</sup> (mg/Kg) <sup>6</sup>	B <sup>C</sup> (mg/Kg) <sup>e</sup>	T <sup>C</sup> (mg/Kg) <sup>0</sup>	E <sup>C</sup> (mg/Kg) <sup>©</sup>	X <sup>e</sup> (mg/Kg) <sup>e</sup>	TOG <sup>d</sup> (mg/Kg) <sup>e</sup>	Metals (mg/Kg) <sup>e</sup>
		3			12	5	25	NA <sup>f</sup>	NA <sup>f</sup>
BCTP-1	Tank Pit	720	350	7.3	12	,			
BCTP-2	Tank Pit	440	280	10	16	5.1	19	NA	NA
BCTP-3	Tank Pit	660	220	0.50	0.50	0.50	0.50	NA	NA
встр-4	Tank Pit	200	77	0.25	0.45	<0.25	0.35	NA	NA
BCTP-5	Tank Pit	<1	<1	<0.005	<0.005	<0.005	<0.005	< <b>i</b>	NA

# Legend:

- a. TPH/d = total petroleum hydrocarbons as diesel
- b. TPH/g = total petroleum hydrocarbons as gasoline
- c. B = benzene; T = toluene; E = ethylbenzene; X = total xylenes
- d. TOG = total oil and grease
- e. mg/Kg = milligrams per kilogram, equal to parts per million (ppm)
- f. NA = analysis not requested





Sample	Sample	Sampling	TPH/d <sup>a</sup>	TPH/g <b>b</b>	B <sup>C</sup>	T <sup>c</sup>	E <sup>C</sup>	X <sup>6</sup>
No.	Location	Date	(ug/L) <sup>d</sup>	(ug/L) <b>d</b>	(ug/L) <sup>d</sup>	(ug/L) <sup>d</sup>	(ug/L) <sup>d</sup>	(ug/L)d
BCW-1	Tank Pit	10/04/91	NA <sup>6</sup>	110,000	190	67	36	860

# Legend:

- a. TPH/d = total petroleum hydrocarbons as diesel
- b. TPH/g = total petroleum hydrocarbons as gasoline
- c. B = benzene; T = toluene; E = ethylbenzene; X = total xylenes
- d. ug/L = micrograms per liter, equal to parts per billion (ppb)
- e. NA = analysis not requested



Table 3. Chemical Data Summary - Soils Sampling Date: 02/05/92
Bigge Crane & Rigging Company
San Leandro, California FUEL USTS PARCEL -1
INITIAL
ONER EXCAVATION

Sample No.	Sample Location	TPH/d <sup>a</sup> (mg/Kg) <sup>d</sup>	TPH/g <sup>b</sup> (mg/Kg) <sup>d</sup>	B <sup>C</sup> (mg/Kg) <sup>e</sup>	T <sup>C</sup> (mg/Kg) <sup>G</sup>	E <sup>C</sup> (ug/Kg) <sup>e</sup>	X <sup>C</sup> (mg/Kg) <sup>E</sup>
	.,						
BCI	Excavation Pit	<1	<l< td=""><td>&lt;5</td><td><b>&lt;</b>5</td><td>&lt;<b>5</b></td><td>&lt;5</td></l<>	<5	<b>&lt;</b> 5	< <b>5</b>	<5
BC2	Excavation Pit	1,000	15	<5	<5	7.2	36
BC3	Excavation Pit	22	<b>&lt;</b> 1	<5	<b>&lt;</b> 5	<b>&lt;</b> 5	<5
BC4	Excavation Pit	<1	<1	<5	<b>&lt;</b> 5	<5	<5
BC5	Excavation Pit	<1	<1	<5	<5	<b>&lt;</b> 5	<b>&lt;5</b>
BC6	Excavation Pit	340	3.4	<b>&lt;</b> 5	<5	<5	15
BC7	Excavation Pit	390	2.1	<5	<5	<5	11
BC1- 1,2,3,4	Soil Stockpile	2.3	<1	<5	<5	<5	<5
BC2- 1,2,3,4	Soil Stockpile	3.9	<1	<5	<5	<b>&lt;</b> 5	<b>&lt;</b> 5
BC3- 1,2,3,4,5,6	Soil Stockpile	4.9	<l< td=""><td><b>&lt;</b>5</td><td>&lt;5</td><td>&lt;5</td><td>&lt;5</td></l<>	<b>&lt;</b> 5	<5	<5	<5

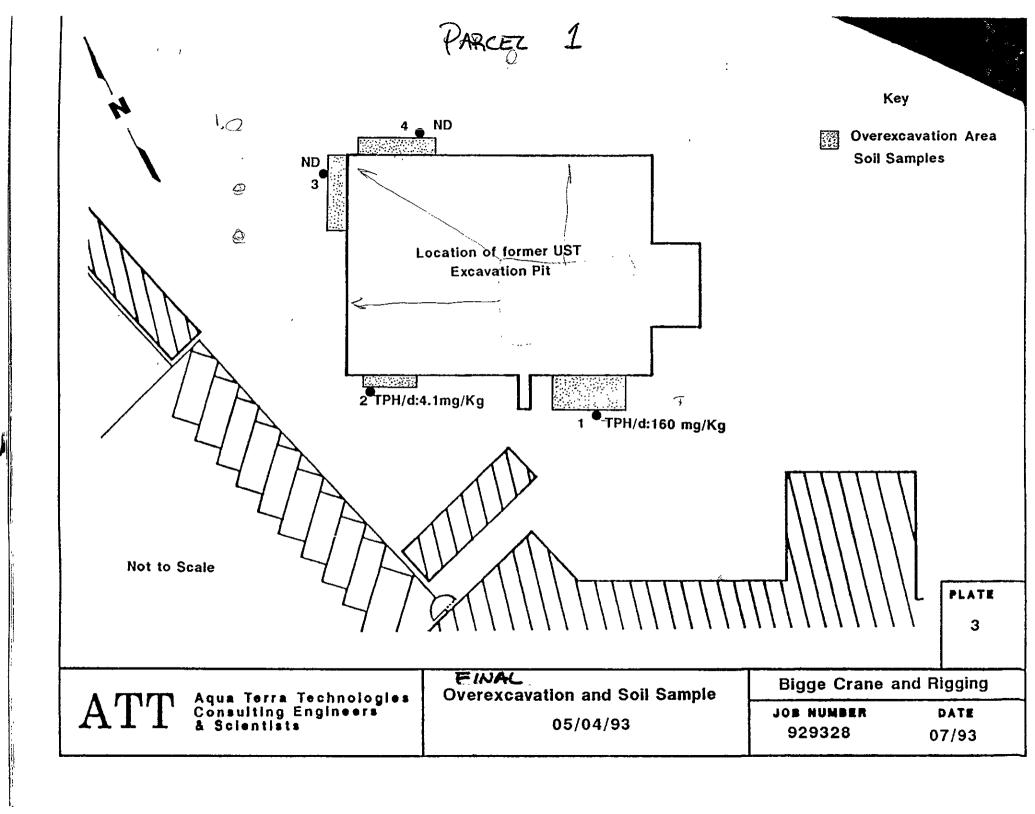


Table 3

## Chemical Data Summary - Soils Bigge Crane & Rigging Company San Leandro, California

	Sample No.	Date Sampled	TPH/d <sup>a</sup> (mg/Kg) <sup>d</sup>	TPH/g <sup>b</sup> (mg/Kg) <sup>d</sup>	B <sup>c</sup> (ug/Kg) <sup>e</sup>	T <sup>c</sup> (ug/Kg) <sup>e</sup>	E <sup>c</sup> (ug/Kg) <sup>e</sup>	X <sup>c</sup> (ug/Kg) <sup>e</sup>
	1	05/04/93	160	<l< td=""><td><b>&lt;</b>5</td><td><b>&lt;</b>5</td><td><b>&lt;</b>5</td><td>&lt;5</td></l<>	<b>&lt;</b> 5	<b>&lt;</b> 5	<b>&lt;</b> 5	<5
	2	•••	4.1	<1	<5	<5	<5	<5
	3		<1.0	<1	<5	<5	<5	<5
	4		<1.0	<1	<5	<b>&lt;</b> 5	<b>&lt;</b> 5	<5
1 kinds	A, B, C, D,		120	<i< td=""><td>&lt;5</td><td>&lt;5</td><td>· &lt;5</td><td>&lt;5</td></i<>	<5	<5	· <5	<5
	F, G, H, I <sup>t</sup>		<1.0	<1	<5	<b>&lt;</b> 5	<5	15

a. TPH/d = total petroleum hydrocarbons as diesel

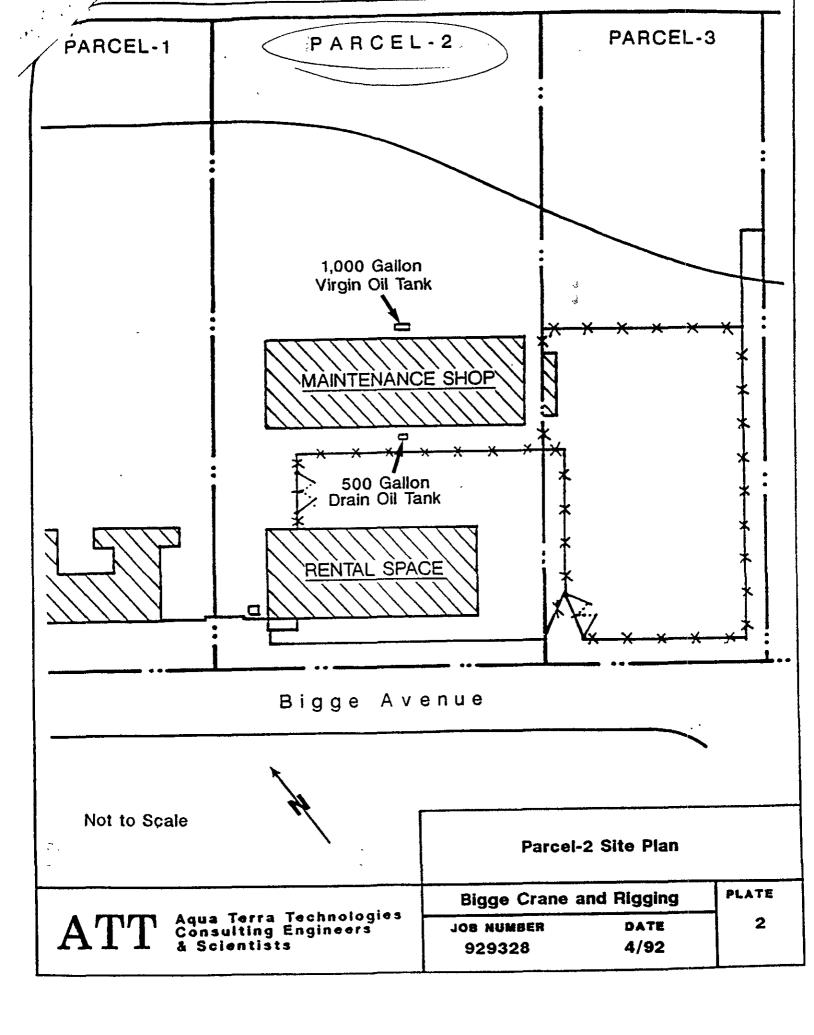
b. TPH/g = total petroleum hydrocarbons as gasoline

c. B = benzene; T = toluene; E = ethylbenzene; x = total xylenes

d. mg/Kg = milligrams per kilogram, equal to parts per million (ppm)

e. ug/Kg = micrograms per kilogram, equal to parts per billion (ppb)

f. Soil stockpile samples





# MAINTENANCE SHOP

500 Gallon Drain Oil Tank

LEGEND
Soil Sample Location

Note: Soils in vicinity of VO2N were excavated and added to spoils pile VO4N is a confirming sample.

Not to Scale	Sample Location Map				
	Bigge Crane a	nd Rigging	PLATE		
ATT Aqua Terra Technologies Consulting Engineers & Scientists	JOB NUMBER 929328	DATE 4/92	3		

Committee of the said

Chemical Data Summary - Soils Sampling Date: 09/30/91 Bigge Crane & Rigging Company San Leandro, California Table 1.

1 . . . .

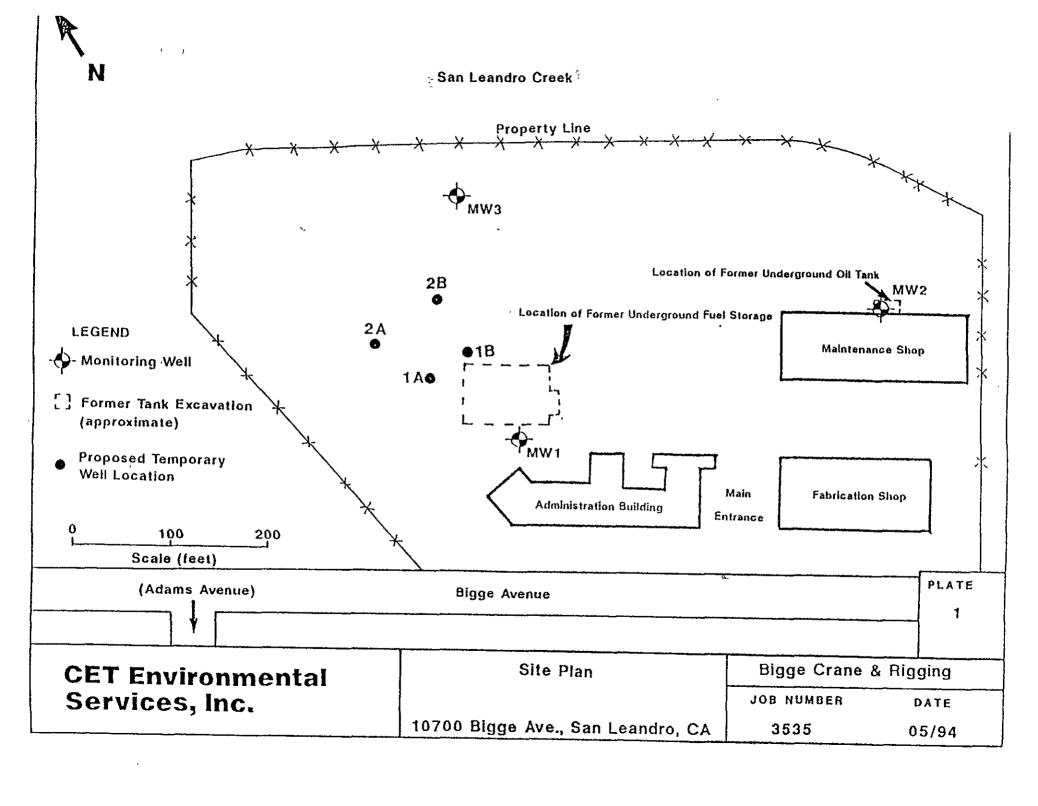
•	Sample No.	Sample Location	TPH/d <sup>a</sup> (mg/Kg) <sup>e</sup>	TPH/g <sup>b</sup> (mg/Kg) <sup>e</sup>	B <sup>C</sup> (mg/Kg) <sup>©</sup>	T <sup>C</sup> (mg/Kg) <sup>e</sup>	E <sup>C</sup> (mg/Kg) <sup>e</sup>	X <sup>e</sup> (mg/Kg) <sup>e</sup>	TOG <sup>d</sup> (mg/Kg) <sup>e</sup>	Metals (mg/Kg) <sup>e</sup>
	YO-1 <b>-</b> S	Virgin Oil Tank Pit	NA <sup>f</sup>	NA <sup>f</sup>	NAf	NA <sup>f</sup>	NA	NA <sup>f</sup>	7.8	NA
3	VO-2-N	Virgin Oil Tank Pit	NA	NA	NA	NA	NA	NA	1,100	NA
(	VO-3	Virgin Oil Tank Pit	NA	NA	NA	NA	NA	NA	<1	NA
· ***	VO-4-N (Sampled on 10/01/91)	Virgin Oil Tank Pit	ND	ND	ND	ND	ND	ND (	<1 >.	NA
	DO-1*	Drain Oil Tank Pit	<1	<l< td=""><td>&lt;0.005</td><td>&lt;0.005</td><td>&lt;0.005</td><td>&lt;0.005</td><td>&lt;1</td><td>Cadmium - 0.80 Chromium -</td></l<>	<0.005	<0.005	<0.005	<0.005	<1	Cadmium - 0.80 Chromium -
							las report not and	to sugge	st somple	30 Nickel - 50 Lead - 12 Zinc - 48
	SP-1-A	Soil Stockpile	22	3.4	<0.005	<0.005	<0.005	<0.005	880	NA

# Legend:

EPA Method 5030/8010 not listed all results ND, see Attachment D TPH/d = total petroleum hydrocarbons as diesel TPH/g = total petroleum hydrocarbons as gasoline B = benzene; T = toluene; E = ethylbenzene; X = total xylenes TOG = total oil and grease mg/Kg = milligrams per kilogram, equal to parts per million (ppm) NA = analysis not requested

b.

c. d.



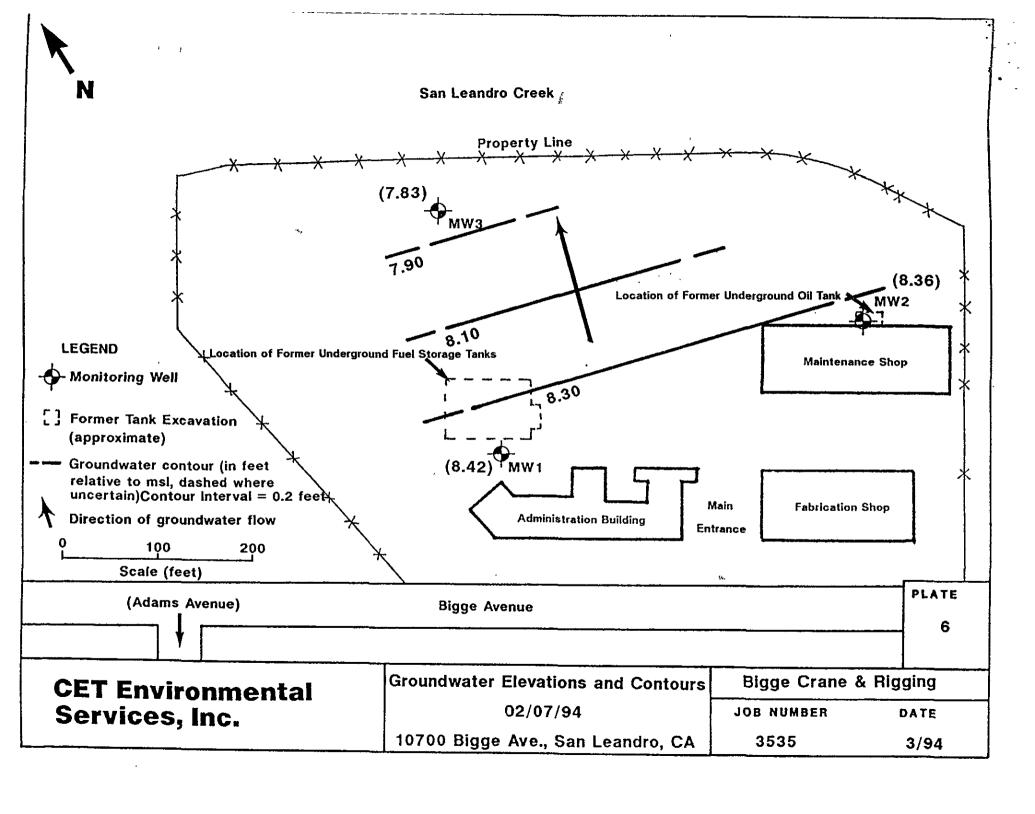




Table 1

Groundwater Elevation Data Summary
Bigge Crane & Rigging Company, San Leandro, CA

		Groundwater Elevation <sup>b</sup> 1993									1994	
Well No.	TOC Elevation <sup>a</sup> (feet)	02/17	06/09	07/22	08	09/15	10/19	11/16	12/14	01	02/07	
MW1	16.04	9.55	8.27	7.94		7.93	8.08	8.27	7.68		8.42	
MW2	16.63	9.37	8.38	8.11		8.05	8.58	8.75	8.18		8.36	
MW3	13.94	<u> </u>	7.38	7.22		7.07	6.90	7.00	6.33		7.83	

<sup>2.</sup> TOC Elevation = Top of well casing elevation measured to mean-sea-level by a California certified land surveyor. Survey conducted on June 8, 1993.

8.36 8.58

7.61

b. Groundwater elevation is equal to the difference between TOC elevation and groundwater depth. Groundwater elevations presented are relative to mean-sea-level.

c. -= not measured



Table 2 Groundwater Sample Chemical Data Summary Bigge Crane & Rigging Company San Leandro, California

	Well	Sampling	TPH/d²	TPH/g <sup>a</sup>	Вр	anh			
	No.	Date	μg/L°	μg/L°	μg/L°	Τ <sup>b</sup> μg/L <sup>c</sup>	E <sup>b</sup> μg/L°	$f X^b \ \mu g/L^c$	TPH-mo
			*						
Parcel	MW1	02/25/93	<50 <sup>d</sup>	<50	<0.5 <sup>d</sup>	<0.5	<0.5	<0.5	NA
1		06/09/93	<50	<50	<0.5	<0.5	<0.5	<0.5	Ð
1		10/19/93	<50	<50	<0.5	<0.5	<0.5	<0.5	şi
		02/07/94	<50	<50	<0.5	<0.5	<0.5	<0.5	21
/	7 000	00/07/00							
\ \ (	MW2	02/25/93	NA°	NA°	<0.5	<0.5	<0.5	<0.5	ND
Parcel		06/09/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
2		10/19/93	<50	<50	<0.5	<0.5	<0.5	<0.5	tt
Ĺ		02/07/94	<50	<50	<0.5	<0.5	<0.5	<0.5	li
Paral	MW3	10/19/93	<50	<50	<0.5	<0.5	<0.5	<0.5	it
Parcel		02/07/94	<50	<50	<0.5	<0.5	<0.5	<0.5	14
1						÷	š.		

TPH/d = total petroleum hydrocarbons as diesel, TPH/g = total petroleum hydrocarbons as gasoline B = benzene; T = toluene; E = ethylbenzene; X = total xylenes

CET-3535/DK1/CHEM-TBL.2

b.

μg/L = micrograms per liter, equal to parts per billion C.

<sup>&</sup>lt;50 and <0.5 = not detected at or above the method detection limit. d.

e. NA = Not Analyzed

Client Number: CET01CET01
Facility Number: 3535
Project ID: BZGGE
Work Order Number: C4-07-0138

### ANALYTICAL RESULTS

## Aromatic Volatile Organics and

# Total Petroleum Hydrocarbons as Gasoline in Water

## EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		01	03	E071194-1
Client Identification		1A	18	METHOD BLANK
Date Sampled		07/08/94	07/08/94	
Date Analyzed		07/11/94	07/11/94	07/11/94
Analyte	Detection Limit, ug/L		Concentration	on, ug/L
Benzene	0.3	<0.3	<0.3	<0.3
Toluene	0.3	1.0	0.6	<0.3
Ethylbenzene	0.3	<0.3	<0.3	<0.3
Xylene, total	0.5	1.4	1.8	<0.5
TPH as Gasoline	10	<10	<10	<10
Detection Limit Multiplier	•	1	1	1
BFB surrogate, % recovery	-	105	108	NA

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as
gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery
acceptability limits are 70-130%. NA = Not Applicable.





Client Number: CET01CET01 Facility Number: 3535 Project ID: BZGGE Work Order Number: C4-07-0138

#### **ANALYTICAL RESULTS**

### TPH as Diesel in Water

Method: Modified EPA 8015a

GTEL Sample Number		01	03	ູ GCJ 0715	
Client Identification		1A	18	METHOD BLANK	
Date Sampled		07/08/94	07/08/94		
Date Extracted		07/14/94	07/14/94	07/14/94	
Date Analyzed		07/17/94	07/16/94	07/15/94	
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
TPH as diesel	10	<10	<10	<10	
Detection Limit Multiplier		1	1	1	
OTP surrogate, % recovery		97.0	111	100	

Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986. Modification for TPH as
diesel as per California State Water Resources Board LUFT Manual procedures. O-Terphenyl surrogate recovery acceptability
limits are 50-150%.

