# **HEALTH CARE SERVICES**

#### AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

April 5, 1996

STID 5541

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda, CA 94502-6577

# REMEDIAL ACTION COMPLETION CERTIFICATION

Jim de Vos Alameda County General Services Agency Engineering & Environmental Management Department 1401 Lakeside Drive, 11th Floor Oakland, CA 94612

RE: "CENTRAL PARCEL" - SANTA RITA REHABILITATION CENTER

Dear Mr. de Vos:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Specifically, the subject tanks are: USTs 1, 2, and 3 ("old boiler plant"); and, USTs 4, 4A, and 4B ("4th and Madigan site"). Enclosed are the Case Closure Summaries for the two tank locations at 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 must promptly notify this agency.

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

Sincerely, Jun Wakishine

Jun Makishima

Acting Director of Environmental Services

enclosures

CC: Gordon Coleman, Acting Chief, Env. Protection Division Kevin Graves, RWQCB Mike Harper, SWRCB Rod Freitag, GSA

Files

SIGNED -

CALIFORNIA REGIONAL WATER

\* 01-013-1X

MAR 0 6 1996

CALALITY CONTROL BOARD

# CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

#### I. AGENCY INFORMATION

INFORMATION Date: 03/01/96

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250 City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700

Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

#### II. CASE INFORMATION

Site facility name: Santa Rita - Central Parcel

"4th and Madigan site" (UST # 4, 4A, 4B)
Site facility address: 0 Dublin Blvd. extension, Dublin, CA
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 5541

URF filing date: 12/15/92 SWEEPS No: N/A

## Responsible Parties:

# Addresses:

#### Phone Numbers:

Alameda Co. GSA Engineering & Env.

Oakland, CA 94612

1401 Lakeside Dr., 11th Fl. 510/208-9520

Management Dept. Attn: Jim de Vos

Tan	<u>k Size</u>	<u>in</u>	Contents:	<u>Closed in-place</u>	Date:
No	<u>: gal.</u>	<u>:</u>		or removed?:	
1	10,000 g	allon	Bunker C	removed	05/18/92
2	~8000	f1	ti	U	זו
3	~3000	11	Diesel	II .	n

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: (probable) overfilling

Site characterization complete? YES

Date approved by oversight agency: 02/29/96

Monitoring Wells installed? NO Number: 4 soil borings / 2 HP points

Proper screened interval? NA

Highest GW depth below ground surface: UNK; however, GW reached @ 39' BG

during drilling

Lowest depth: NA

Flow direction: UNK

Most sensitive current use: (planned) school site

Are drinking water wells affected? NO Aquifer name: Camp Subbasin

#### Page 2 of 4

#### Leaking Underground Fuel Storage Tank Program

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

Is surface water affected? NO Nearest affected SW name: NA Off-site beneficial use impacts (addresses/locations): NONE

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

Treatment and Disposal of Affected Material:

Material	<u>Amount</u> (include units)	Action (Treatment of Disposal w/destination)	<u>Date</u>
Tank	(10K; 8K; 3K gal)	<u>Disposal</u> - Erickson, Inc.	5/18/92 -
		Richmond, CA	5/20/92
Piping	UNK (presumed as		
Product	500 gals	<u>Recycle</u> - Gibson Oil	3/18/92
		Redwood City, CA	
	100 gals	<u>Recycle</u> - PRC	6/12/92
	•	Patterson, CA	
Soil	~ 500 yds³	<u>Re-use on site</u>	May 1995
Groundwater	NA		
Barrels	NA		

Contaminant	Soil (p	pm)	Water (pp	b)
	Before A	fter¹	Before A	<u>fter2</u>
TPH (Gas)	NA	NA	NA	NA
TPH (Diesel)	15,000	ND	11	84
Benzene	ND	ri .	II	ND
Toluene	11	TT .	II	11
Xylene	11	Ħ	II	11
Ethylbenzene	11	11	II .	11
Oil & Grease	5300	11	II	NA

Notes: 1) "After" soil sample results from Sept. 1995 site assessment.

2) "After" water sample results from Sept. 1995 site assessment.

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

Beginning March 1992 through May 1992, two (2) Bunker C fuel oil and one (1) diesel fuel USTs were removed from this Santa Rita-Central subsite ("4th & Madigan"). Although the tanks did not appear to have leaked, there

#### Page 3 of 4

#### Leaking Underground Fuel Storage Tank Program

was evident subsurface contamination noted in the UST pit, particularly at the west end of the excavation near tank 4, and upon the soil bed located on top of the concrete hold down pad at the base of the excavation.

Because the subject USTs were constructed on a concrete pad, initial soil samples were collected at the west and east ends of each tank, ~ 2' below the pad's edge, at a reported depth of approximately 14' BG. Up to 15,000 ppm TPH-D and 5300 ppm oil and grease were identified in sampled soil. BTEX concentrations were below laboratory detection limits in all samples.

Approximately 500 yds<sup>3</sup> of soil material was eventually generated during closure activities. The resultant excavation was approximately 26 x 32 x 12' deep.

During November 1993, the stockpile was sampled at a frequency of one discrete sample per 50 yds³ to determine options for its final disposition. Based on the analytical results of this sampling effort (<10 - 100 ppm TPH-D; < 0.01 ppm total xylenes) a SESOIL analysis was performed to determine whether this material would pose a threat to underlying GW resources should it be reintroduced to the site at grade. The conclusion following completion of the SESOIL analysis was that reintroduction of the stockpiled material would not pose such a risk. Permission to reintroduce this material at grade was granted by ACDEH on July 18, 1994. On May 25, 1995, the subject stockpile was spread in 8 - 10" lifts on the west side of Madigan Ave., just south of the UST site, over a reported area of ~ 180 x 40'.

During January 1996, out of concerns regarding potential development of a portion of this site as an elementary school, the (now) spread stockpile was again sampled and analyzed for the presence of SVOC. All 5 samples were below laboratory detection limits for SVOC.

As of this writing, the UST excavation has not yet been restored to grade.

#### 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? NO

## Page 4 of 4

### Leaking Underground Fuel Storage Tank Program

Monitoring wells Decommisioned: NA

Number Decommisioned: NA Number Retained: NA

List enforcement actions taken: NONE

List enforcement actions rescinded: NONE

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Sr. Haz Mat Specialist

Signature: Date: 3/5/96

Signature: 7 ) Date: 3/4/9/

Name: Amy Beech Title: Haz Mat Specialist

Signature: Weech Date: 3/4/96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 3/5/16

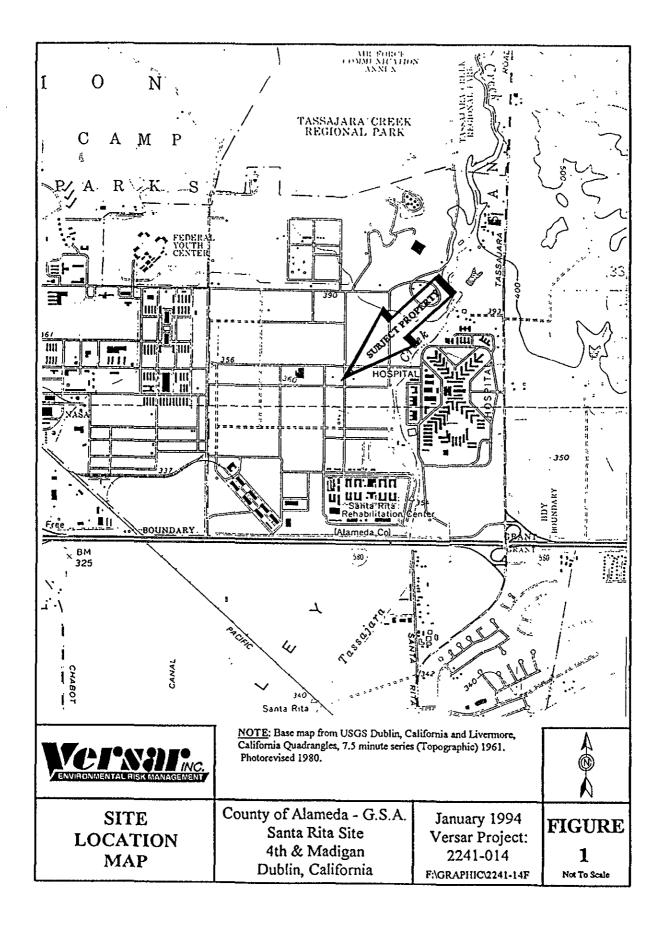
RWQCB Staff Name: Keylli Graves

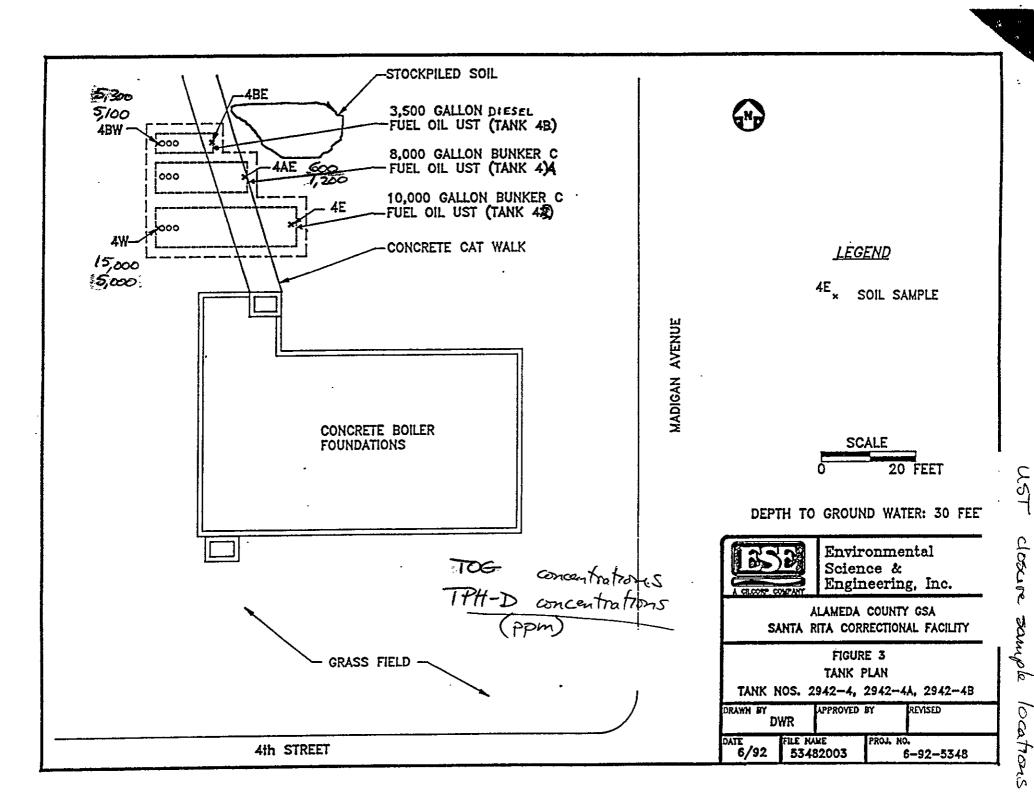
Title: San. Eng. Assoc. Date:

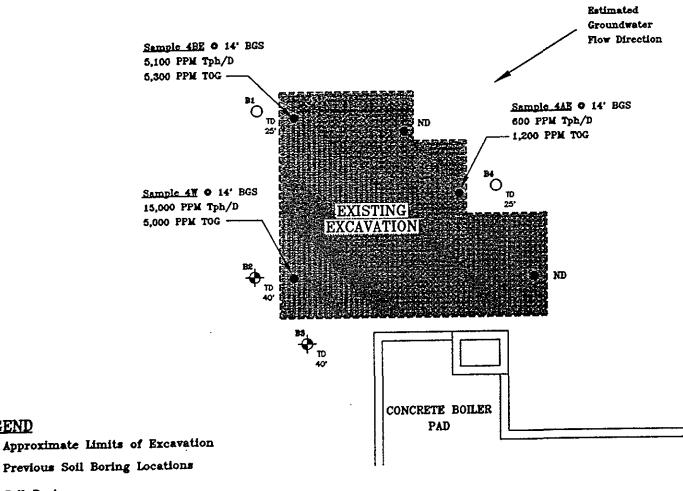
VII. ADDITIONAL COMMENTS, DATA, ETC.

During September 1995, four soil borings were drilled to depths ranging from ~ 25 - 40' BG in areas around the former UST cluster where the highest concentrations of fuel compounds were detected during the previous UST closures. Soil samples were collected from all borings during advancement. Ground water samples were additionally collected from two (2) of the borings, B2 and B3, located at the southwest corner of the UST pit.

Twenty soil samples were collected in total and <u>all</u> were below laboratory detection limits for targeted compounds (TPH-D, BTEX). As a result, SVOC analysis was not performed. Of the two ground water samples, only that sample collected from boring B2 exhibited any detectable compounds where 84 ug/l TPH-D was noted.







LEGEND

Previous Soil Boring Locations

Soil Boring

Hydropunch Groundwater Sample

Total Boring Depth, Feet Below Ground Surface (BGS)



NOTE:

ALL DIMENSIONS AND LOCATIONS

ARE APPROXIMATE



SITE

MAP Ref. Map Adopted from ESE Site Map County of Alameda - G.S.A. Santa Rita Site 4th & Madigan Dublin, California

August 1995 Versar Project: 2241-014

A (I) **FIGURE** 2

TABLE 1. SOIL SAMPLE TPH-D AND BTEX ANALYTICAL RESULTS (NOVEMBER 5, 1993)											
Sample No. (with depth)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)						
FM-SP-1-2.5'	- 23	ND	ND	ND	ND						
FM-SP-2-1.5'	100	ND	ND	ND	÷0.008						
FM-SP-3-2.0'	46	ND	ND	ND	ND						
FM-SP-4-4.0'	ND	ND	ND	ND	ND						
FM-SP-5-2.0'	ND	ND	ND	ND	ND						
FM-SP-6-3.0'	ND	NĎ	ND	ND	ND						
FM-SP-7-2.0'	ND	ND	ND	ND	ND						
FM-SP-8-2.5'	26	ND	ND	ND	ND						
FM-SP-9-0.5'	ND	ND	ND	ND	ND						
FM-SP-10-O.5'	20	ND	ND	ND .	ND						

NOTES:

- TPH-D refers to Total Petroleum Hydrocarbons as Diesel detected using EPA analytical method 8015 (modified per CA LUFT); Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed using EPA analytical
- method 8020;
- mg/kg refers to milligrams per kilogram; ND refers to not detected at method detection limit.

4090 NELSON AVENUE, SUITE J CONCORD, CA 94520

Environmental

Engineering, Inc.

Science &

UST site (4,44,4B)

4 t h

DUBLIN, CALIFORNIA

65-96-012

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Versar		Client Pr	roject ID: #2241-014; 4th &	Date Sampled: 09/0	)1/95
1255 Harbor	Bay Pkwy, # 100	Madigan,	Santa Rita	Date Received: 09/	01/95
Alameda, CA	X 94502	Client Co	ntact: John Bird	Date Extracted: 09	/01/95
		Client P.C	D:	Date Analyzed: 09/	01-09/02/95
EPA methods m	Diesel Ra nodified 8015, and 3550 or	nge (C10-C 3510; Califor	C23) Extractable Hydrocarbons nia RWQCB (SF Bay Region) method	as Diesel * GCFID(3550) or GCFII	D(3510)
Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>		% Recovery Surrogate
55993	B3-25	S	ND		95
55994	B3-30	S	ND		96
55995	B3-35	S	ND		96
55996	B3W	J.W.	ND		99
55997	∦B2W	<b>W</b> 6.5	<b>84</b> ,b		98
55998	B4-10	s	ND		97
55999	B4-15	S	ND		97
56000	B4-20	S	ND		96
•					
Reporting	Limit unless other-	w	50 ug/L		
tected above	; ND means not de- e the reporting limit	S	1.0 mg/kg		

<sup>\*</sup> water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

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ig Fig	jvan	Š	<u>`</u>	rst V ater	ell C	SCS	thol	COLOR	, MOISTU	RE, DENS	ITY, SECONDARY M, BEDROCK	POROSITY, ODORS, STAINING	qsba
ĹÃ	₹	~	m	Ē ≯	W	Ď	Li	GEOLO	G1. FIEL,	ALLUVIO	M, BEDROCK		Hea
											•		
24	U		14			CL		San	_		moist, calcite stria	tions, no odor or staining,	
129	Ø	兌	19						browi	1			
	X	$\boxtimes$	23										0
26													
28	H	$\dashv$	$\dashv$										
ı		$\forall$	10					G'1.	•	• . •			
30	Ŕ	兌	10			CL		Sift	y clay, mo	oist, brow	n, no odor or stair	ning.	0
	$\bowtie$	Ц	15							.==			
II											•		
32	-			<del></del>		$\vdash$	<u> </u>						
ľ							ŀ	 					
34	$\boxtimes$	X	7				_				· · · · · · · · · · · · · · · · · · ·		
	$\bowtie$	X	11					0.114	u sond 11.	who have	moderatel t-	d no odonou stala!	
	H		17			SM	ł	l sur	y sand, 118	gni orown	i, moderately sorte	ed, no odor or staining.	0
36	┞┤	Н	_			<del> </del>	<b> </b> -		······································	<del>, , , , , , , , , , , , , , , , , , , </del>			-
38													
				. 🐷		Γ	<del>                                     </del>						-
ľ				Ā					undwater				
40	Н	$\left  \cdot \right $	_			$\vdash$		40'	- End of t	orehole.	Groundwater sam	ple collected.	
l													
42								]					
		П				Γ			<del></del>				<del> </del>
1													
44		,			<u> </u>								

												P_1 of_	1
				Ver	sar l	Inc.				DRILL	NG LOG	PROJECT NO. 2241-014	
Su	per	visi	ing	Geol	ogist:	I	Bira	i		····	Site Name: Santa	Rita - Alameda County	
Lo	g E	<u>γ:</u>	_7	<u>Л. На</u>	urisc	_מכ					Boring No: B4		
Da	te:	_9	4	/95							Boring Diameter:	8-inch	
Dr	illii	ng (	Co	ntracto	or: V	Ves	t.H	zmat Dri	lling Co	orp.	Boring Depth: 25		
Co	ntr	acto	or .	Lic. N	0. C	57.	-554	979			Boring Location:	See figure	
1				CMI					<del></del>				
Dı	ille I	r: 	G	eorge	De.	esi	18		·				
			S	ÄΑ̈́	uction	a			SO		USCS SOIL DESCRI ION AND GEOLOGI	PTION C INTERPRETATION	(md
Depth (ft)	Advanced/	Recovered	Blow Count	First Water/ Water Table	Well Construction	USCS Grou	Lithology	COLOR	, MOIS	TURE, DEN		T: GRAVEL, SANDS, FINES POROSITY, ODORS, STAINING	Headspace (ppm)
2								Fi	ll - gra	vel gradin	g to unconsolidated	l brown silty sand with depth	
4									<u>.</u>				
هـ													
-8													
10	XXX	X	18 18 18			SP. SM	ı	В		Sand to silt or or stain		ly sorted, medium dense,	0
12									-				
14	X	X	7										
16	Ž	X	9 11			SM	1	Si	_	d, modera ing, moist.	•	n dense, no odor or	0
10								·	-				
20		XXX	6 8			CI		В	rown-s	andy clay,	brown, moist, trac	ce silt, no odor or staining.	0
22								2:	5' End	of borehol	e.		