

Environmental Services, Inc.

2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

URR gent 3/4/91

February 27, 1991 Project Number 5186A

San Lorenzo Unified School District 15510 Usher Street San Lorenzo, CA 94580 Attention: Deb Cornwell

TANK REMOVAL REPORT Fuel Tank Site Arroyo School 15701 Lorenzo Avenue San Lorenzo, California

We are pleased to forward this report to you and the Alameda County Health Care Services Agency.

GENERAL

One 6,000 gallon underground steel diesel fuel tank has been removed from the Arroyo School site. The underground tank had been used to store diesel fuel for heating and hot water service at the school facility. The tank had been unused since natural gas was introduced to the Arroyo School sometime in the 1960s.

In accordance with the Underground tank closure permit issued by the Alameda County Health Care Services Agency we are presenting this report. A copy of the approved first page of the Underground tank closure permit is attached.

The Arroyo School is located at 15701 Lorenzo Avenue in San Lorenzo California. Figure 1, Vicinity Map shows the site location with respect to the surrounding area. The tank which was removed was located within an asphalt paved area between the boiler room and maintenance part of the school building and some portable classrooms. Figure 2, attached, shows the approximate location of the tank with respect to the buildings and nearby site landmarks.

TANK PREPARATION AND REMOVAL

Prior to removal the tank was evacuated of all remaining product and triple rinsed to remove any further product residue. The mixture of product and water was then removed from the site under Uniform Hazardous Waste Manifest procedure. Copies of manifest number 8991 7572 and 8991 7588 are attached.

The 6,000 gallon diesel (fuel oil) tank was exposed and on January 3, 1991 the tank was purged of explosive vapors by insertion of appropriate amounts of dry ice. Mr. Vern Brooks, Hazardous Material Engineer of the Eden Consolidated Fire Protection District and Ms. Pam Evans, Hazardous Materials Specialist of the Alameda County Environmental Health Department were on site to observe the procedures and direct the soil sampling.

When the tank was lifted from the excavation, an inspection was made of the tank integrity. After scraping and probing, the tank was noted as being rusted and corroded with a 1/4 inch leaking seam. Approximately 1 gallon of product leaked and was caught in a bucket.

The tank bottom was measured to be about 10 feet deep. Further backhoe excavation revealed a concrete pad which apparently had been used as a tank foundation or as a tie-down. No groundwater accumulation was noted in the final 10 foot deep excavation during removal.

The empty, rinsed, and purged tank was then immediately placed on a truck from Erickson Trucking and was delivered to Erickson Trucking in Richmond under Uniform Hazardous Waste Manifest procedures (Tank # 5304). A copy of the Uniform Hazardous Waste Manifest number 8991 7579 is attached.

SOIL SAMPLING

Ms. Evans designated nine soil sample locations. Samples 01 and 02 were from the west end of the excavation at about 10 and 11 feet. Sample 03 was taken in the east end of the excavation at a depth of about 11 feet below ground surface. A total of 6 samples were taken from two different piles of excavated material. The location of the four samples are shown on the attached Figure 3, Sample Location Plan.

A backhoe was used to obtain soil for samples 01, 02, and 03. Soil for samples 04 through 09 as exposed using a post hole auger. The soil samples were collected by a California registered geologist by driving 2 inch diameter by 6 inch long brass tubes into the designated soil. The tubes were capped, sealed,

labeled and stored in a cooled ice chest. The samples were then transported to Precision Analytical Laboratory under Chain of Custody protocol for analysis.

LABORATORY ANALYSIS AND PROCEDURES

The three samples from the excavation were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) by the DHS Extraction Method; Volatile Organic Compounds (Benzene, Toluene, Ethylbenzene, and Xylene-BTEX) by EPA Method 8020; and Total Oil and Grease (TOG) by EPA Method 9071. The six samples from the excavated soil were analyzed for TPH-D and BTEX. The laboratory results are tabulated below.

RESULTS OF SOIL ANALYSIS

Saı	mple	Sample	TPH	BTEX	TOG
Nu	ımber	Depth	Diesel		
		(feet) (results are	presented in parts per millio	n-ppm)
()1BT	10	62	ND/0.12/ND/0.06	ND
(D2BT	11 ~	300	ND/0.08/ND/0.33	7 30
()3BT	(113)	300	ND/0.10/ND/ND	2000
()4BT	3	ND	ND/ND/ND/ND	NT
. (D5BT	2	ND	ND/ND/ND/ND	NT
(O6BT	1	ND	ND/ND/ND/ND	NT
()7BT	0.5	ND	ND/ND/ND/ND	NT
(O8BT	1	12.0	ND/ND/ND/ND	NT
()9BT	1.5	ND	ND/ND/ND/ND	NT
Notes:	ppm ND		parts per non-detection	cted at or above the Method	
	ВТ		Boiler Ta		
	NT		Not Teste		

Original signed laboratory certificates from Precision Analytical Laboratory for each analysis are attached.

SOIL HANDLING

As the soil was removed from the tank excavation it was stored on plastic sheeting near the tank excavation area. Subsequently the soil was moved to School District property for aeration and the excavation was filled with low strength concrete slurry.

If there are any questions please call.

Sincerely

George Wilson Vice President

John Carver

Civil Engineer 2377

cc: Alameda County Health Care Services Agency

C 23772

CIAIL

Department of Environmental Health

ATTN: Ms Pam Evans

Eden Consolidated Fire Protection District

ATTN: Mr. Vern Brooks

208# 2186 B

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200 OAKLAND, CA 94621

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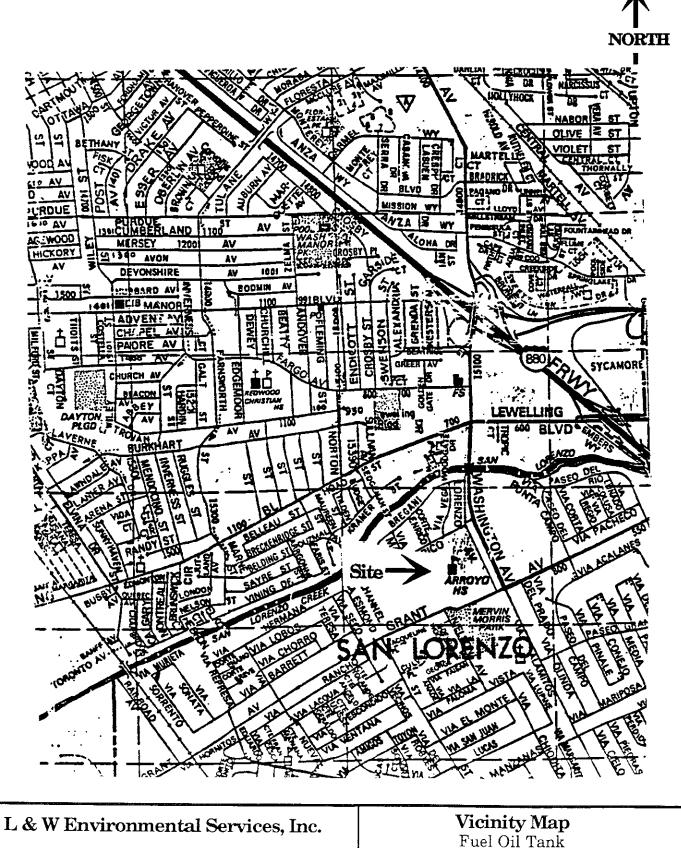
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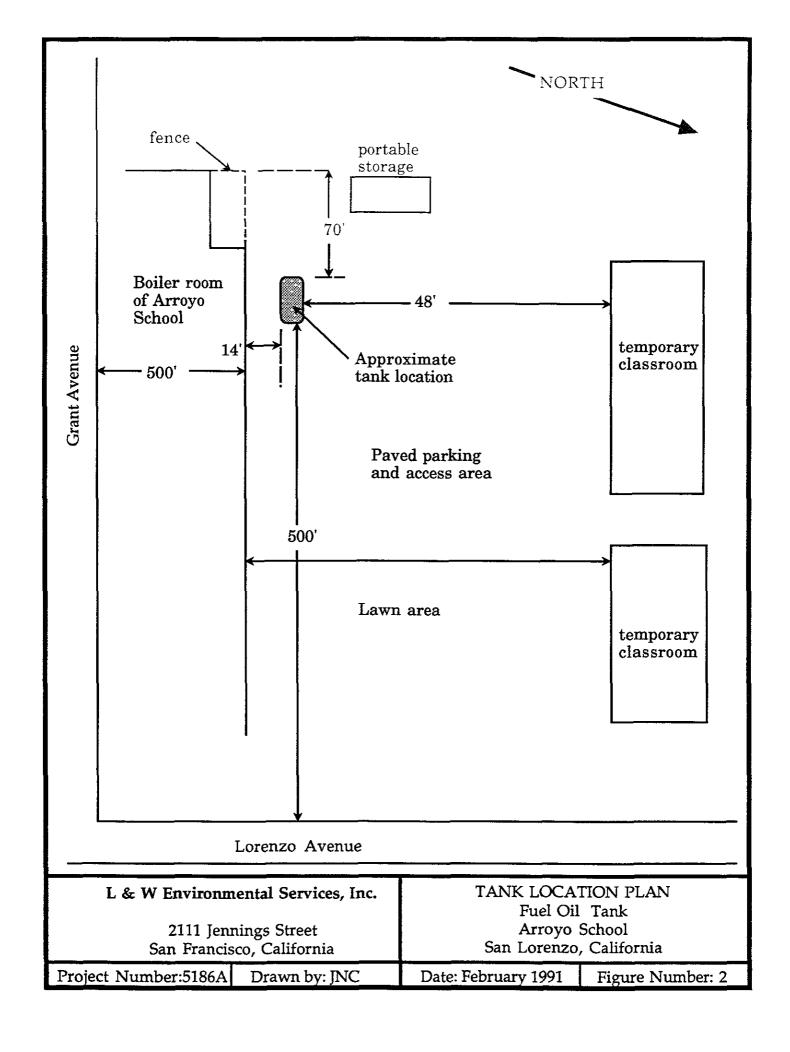
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UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1.	Business Name San Lorenzo Unified School District-Arroyo High School
	Business Owner San Lorenzo Unified School District
2.	Site Address 15701 Lorenzo Avenue
	City San Lorenzo Zip 94580 Phone (415) 276-2260
3.	Mailing Address 15510 Usher Street
	City San Lorenzo Zip 94580 Phone (415)276-3600
4.	Land Owner San Lorenzo Unified School District
	Address 15510 Usher Street City, State San Lorenzo, Cario 94580
5.	EPA I.D. No. CAC000277721
6.	Lindsay & Wilson Environmental Services, Inc. Contractor dba, L.& W. Environmental Services, Inc.
	Address 2111 Jennings Street
	City San Francisco, CA. 94124 Phone (415)822-4555
	License Type A,B, Haz. Substance ID# 507442
7.	Consultant N/A
	Address
	City Phone



2111 Jennings Street San Francisco, California Project Number: 5186A Drawn by: JNC Date: February, 1991 Figure Number: 1

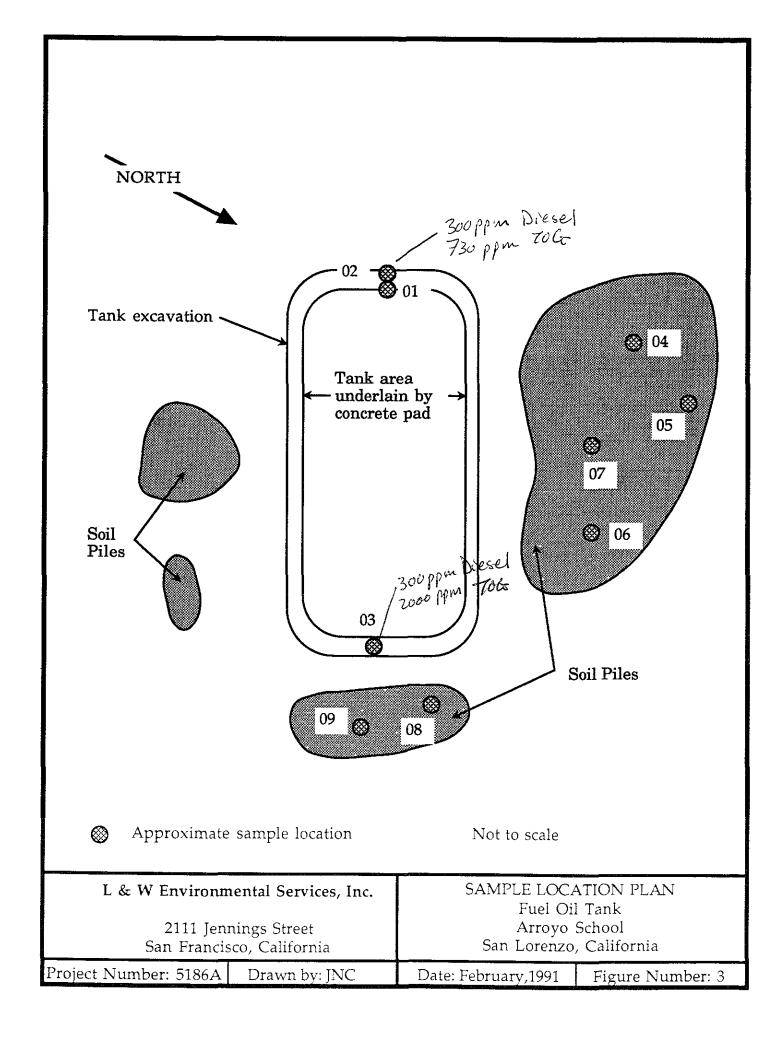


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	3.	enerator's Name and Mailing Address		51719	<u> </u>		Ocument Nu	by Federal law.
) //	N LORENZO UNIFIED SCHOOL DISTRICT-AR				· 89	917	579
	-	ienerator's Phone (415) 276-3600	9458)	Į.	e Generator	s ID	1 2 2 3
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2-7		RICKSON, INC. CADIOO		382	111	te Transporte ssporter's Pt		136% ※
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FORM		CHMOND CA 94806 CAIDIOIO			<u> </u>	<u> </u>	<u>*</u>	2 7
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	<u>څ</u>	TEEL TOED BOOTS WHEN	HANDL	ING.				
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<u>٥</u>		present and future threat to human health and the environment. OR if I am a	mell eventers er	torage, or (disposal ave made	Currently ava	dable to me	which minimizes the
NA P		generation and select the best waste management method that is available to ad/Typed Name	me and mar I ca	in efford.		1		
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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 01/03/91 Reported: 01/08/91 Job #: 72138

Attn: George Wilson

L & W Environmental Services

2111 Jennings Street San Francisco, CA. 94124

Project: Arroyo High School - San Lorenzo School District

Matrix: Soil

Total Petroleum Hydrocarbon Analysis DHS Extraction Method (LUFT) mq/kq

Client ID	Diesel	$\mathtt{MD}\Gamma$
01 BT	62	10
02 BT 03 BT		20 20
	01 BT 02 BT	01 BT 62 02 BT 300

QA/QC: Spike Recovery for Diesel: 97%

MDL: Method detection limit; Compound below this level would not be detected.

swinder Sidly (Ras) Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

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2111 Jennings Street San Francisco, CA. 94124

Project: Arroyo High School - San Lorenzo School District

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/kg

<u>Lab ID</u>	Client ID	Benzene	MDL	<u> Toluene</u>	MDL
72138-1	01 BT	ND<0.015	0.015	0.12	0.015
72138-2	02 BT	ND<0.015	0.015	0.08	0.015
72138-3	03 BT	ND<0.015	0.015	0.10	0.015
		Ethyl-			
Lab ID	Client ID	Ethyl- benzene	MDL	Xylene	MDL
<u>Lab ID</u> 72138-1	Client ID 01 BT	-	MDL 0.015	Xylene 0.06	MDL 0.045
		<u>benzene</u>			

QA/QC: Spike Recovery for Benzene: 108% Spike Recovery for Toluene: 101% Spike Recovery for O-Xylene: 94%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 01/03/91 Reported: 01/09/91 Job #: 72138

Attn: George Wilson

L & W Environmental Services

2111 Jennings Street San Francisco, CA. 94124

Project: Arroyo High School - San Lorenzo School District

Matrix: Soil

Oil & Grease Analysis EPA Method 9071 mg/kg

Lab ID	Client ID	Oil & Grease	MDL
72138-1	01 BT	ND<20	20
72138-2	02 BT	730	20
72138-3	03 BT	2000	20

QA/QC: Spike Recovery for Oil & Grease: 79%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow

Laboratory Director

CHAIN OF CUSTODY

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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 01/03/91 Reported: 01/08/91 Job #: 72139

Attn: George Wilson

L & W Environmental Services

2111 Jennings Street

San Francisco, CA. 94124

Project: Arroyo High School - San Lorenzo School District

Matrix: Soil

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/kg

Lab ID	Client ID	Diesel	MDI
72139-1	04 BT	ND<10	10
72139-2	05 BT	ND<10	10
72139-3	06 BT	ND<10	10
72139-4	07 BT	ND<10	10
72139-5	08 BT	12.0	10
72139-6	09 BT	ND<10	10

QA/QC: Spike Recovery for Diesel: 97%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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CERTIFICATE OF ANALYSIS

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Job #: 72139

Attn: George Wilson

L & W Environmental Services

2111 Jennings Street San Francisco, CA. 94124

Project: Arroyo High School - San Lorenzo School District

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/kg

		_			
<u>Lab ID</u>	<u> Client ID</u>	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72139 - 1	04 BT	ND<0.015	0.015	ND<0.015	0.015
72139-2	05 BT	ND<0.015	0.015	ND<0.015	0.015
72139-3	06 BT	ND<0.015	0.015	ND<0.015	0.015
72139-4	07 BT	ND<0.015	0.015	ND<0.015	0.015
72139-5	08 BT	ND<0.015	0.015	ND<0.015	0.015
72139-6	09 BT	ND<0.015	0.015	ND<0.015	0.015
		Ethyl-			
Lab ID	Client ID	Ethyl- benzene	MDL	Xylene	MDL
<u>Lab ID</u> 72139-1	Client ID 04 BT	_	MDL 0.015	Xylene ND<0.045	MDL 0.045
		<u>benzene</u>			
72139-1	04 BT	benzene ND<0.015	0.015	ND<0.045	0.045
72139-1 72139-2	04 BT 05 BT	benzene ND<0.015 ND<0.015	0.015 0.015	ND<0.045 ND<0.045	0.045 0.045
72139-1 72139-2 72139-3	04 BT 05 BT 06 BT	benzene ND<0.015 ND<0.015 ND<0.015	0.015 0.015 0.015	ND<0.045 ND<0.045 ND<0.045	0.045 0.045 0.045
72139-1 72139-2 72139-3 72139-4	04 BT 05 BT 06 BT 07 BT	benzene ND<0.015 ND<0.015 ND<0.015 ND<0.015	0.015 0.015 0.015 0.015	ND<0.045 ND<0.045 ND<0.045 ND<0.045	0.045 0.045 0.045 0.045

QA/QC: Spike Recovery for Benzene: 108% Spike Recovery for Toluene: 101% Spike Recovery for O-Xylene: 94%

MDL: Method detection limit; Compound below this level would not be detected.

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