



ORO LOMA SANITARY DISTRICT

2600 GRANT AVENUE
SAN LORENZO, CALIFORNIA 94580
TELEPHONE (510) 276-4700
ADMINISTRATION FAX (510) 276-1528
PLANT FAX (510) 278-7382

Directors:

Leythton N. Landis, President
Roland J. Dias, Vice President
Harvey V. Nolting, Secretary
Howard W. Kent, Director
Milford I. Sanford, Director

General Manager:

Paul H. Causey

October 22, 1992

Ms. Pamela J. Evans
Senior Hazardous Materials Specialist
Hazardous Materials Division
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

SUBJECT: DIESEL FUEL REMEDIATION (45-64-11)

Dear Ms. Evans:

Enclosed please find a copy of the Testing and Technology Report covering the sampling and testing of soils and ground water in the vicinity of the fuel spill at the 2500 gallon, above ground diesel fuel tanks on our Wastewater Treatment Plant. A courtesy copy also is being sent to the Regional Water Quality Control Board in Oakland.

The evident contamination may require remediation and the District solicits your guidance at this point as to a suggested work plan. Please contact me at (510) 276-4700 Extension 129 so we can schedule a meeting to determine how the District should proceed with this situation.

Sincerely,

Michael Riddiford
Associate Engineer

MR:al

cc: Paul Causey
Charles Weir, EBDA
V.J. Patel, RWQCB
Doug Humphrey
Tamara Davidson

Encl

ENGCHDMSJEVANS.LTR/ol

**TESTING
AND
TECHNOLOGY**

31-F Commercial Blvd. • Novato, CA • 94949 • (415) 883-5070

FAX • (415) 883-0859

California Contractor's License # 640016

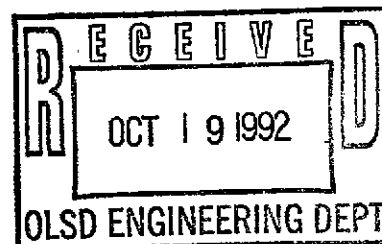
ENVIRONMENTAL SERVICES

PRECISION TANK TESTING

LEAK DETECTION SYSTEMS

October 16, 1992

Mr. Mike Riddiford
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, CA 94580



Subject: Diesel Fuel Spill and Lab Results

Dear Mr. Riddiford:

Attached are the results of the soil and water samples taken at the aboveground diesel fuel tanks. The results show that BTEX/TPH-D are above reporting limits in both the soil and water.

The next step is to write a work plan and a health and safety plan for submittal to the water quality control board. This work plan should include a water sampling plan that would provide some idea of the extent of the contamination. These plans would need to be signed by a registered geologist.

We look forward to working with the Oro Loma Sanitary District in remediating this problem. Please call me with any questions that you may have.

Sincerely,

David L. Nieman

Excelchem
Environmental Labs
 8112 Patton Avenue
 Citrus Heights, CA 95610
 (916) 729-5313



ANALYSIS REPORT

Attention: Mr. David Nieman
 TAT
 27-B Commercial Blvd.
 Novato, Ca. 94949

Date Sampled : 9-17-92
 Date Received: 9-19-92
 BTEX Analyzed: 9-21-92
 TPHg Analyzed: NR
 TPHd Analyzed: 9-27-92
 Matrix: Soil

Project: OLS-299

	Benzene PPM	Toluene PPM	Ethyl- benzene PPM	Total Xylenes PPM	TPHg PPM	TPHd PPM
Reporting Limit:	0.05	0.05	0.05	0.05	1.0	10

SAMPLE
Laboratory Identification

SS-1-6' S0992251	ND	ND	ND	0.34	NR	180
SS-2-6' S0992252	ND	ND	ND	ND	NR	230
SS-4-5' S0992254	ND	0.15	0.09	0.40	NR	110
SS-5- S0992255	ND	0.09	0.08	0.44	NR	120

PPM = Parts per million = mg/Kg = milligram per kilogram

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.


 Laboratory Representative

9-28-92
 Date Reported

Excelchem
Environmental Labs
 8112 Patton Avenue
 Citrus Heights, CA 95610
 (916) 729-5313



ANALYSIS REPORT

Attention: Mr. David Nieman
 TAT
 27-B Commercial Blvd.
 Novato, Ca. 94949

Date Sampled : 9-17-92
 Date Received: 9-19-92
 BTEX Analyzed: 9-21-92
 TPHg Analyzed: NR
 TPHd Analyzed: 9-27-92
 Matrix: Soil

Project: OLS-299

	Benzene PPM	Toluene PPM	Ethyl- benzene PPM	Total Xylenes PPM	TPHg PPM	TPHd PPM
Reporting Limit:	0.05	0.05	0.05	0.05	1.0	1000

SAMPLE

Laboratory Identification

SS-3-6' S0992253	ND	0.31	0.40	2.4	NR	33000
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PPM = Parts per million = mg/Kg = milligram per kilogram

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.


 Laboratory Representative

9-28-92
 Date Reported

Excelchem
Environmental Labs
 8112 Patton Avenue
 Citrus Heights, CA 95610
 (916) 729-5313



ANALYSIS REPORT

Attention: Mr. David Nieman
 TAT
 27-B Commercial Blvd.
 Novato, Ca. 94949

Date Sampled : 9-17-92
 Date Received: 9-19-92
 BTEX Analyzed: 9-26-92
 TPHg Analyzed: NR
 TPHd Analyzed: -----

Project: OLS-299 Matrix: Water

	Benzene PPB	Toluene PPB	Ethyl- benzene PPB	Total Xylenes PPB	TPHg PPB	TPHd PPB
Reporting Limit:	0.5	0.5	0.5	0.5	50	100

SAMPLE
Laboratory Identification

*W-6-6' W0992256	7.5	19	ND	70	NR	---
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* = Surrogate recovery is out of QA/QC limits.
 PPB = Parts per billion = ug/L = micrograms per liter
 ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.
 NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).
 TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.
 TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3510 followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

John A. [Signature]
 Laboratory Representative

9-28-92
 Date Reported

Excelchem
Environmental Labs
 8112 Patton Avenue
 Citrus Heights, CA 95610
 (916) 729-5313



ANALYSIS REPORT

Attention: Mr. David Nieman
 Testing & Technology
 27-B Commercial Blvd.
 Novato, Ca. 94949
 Project: Oro Loma Sanitary District

Date Sampled : 10-1-92
 Date Received: 10-2-92
 BTEX Analyzed: 10-3-92
 TPHd Analyzed: 10-7-92
 Matrix: Water

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHd
	<u>PPB</u>	<u>PPB</u>	<u>PPB</u>	<u>PPB</u>	<u>PPB</u>
Reporting Limit:	500	500	500	500	50000

SAMPLE
Laboratory Identification

W-1-6'	ND	2100	7000	29000	540000
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PPB = Parts per billion = ug/L = micrograms per liter

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

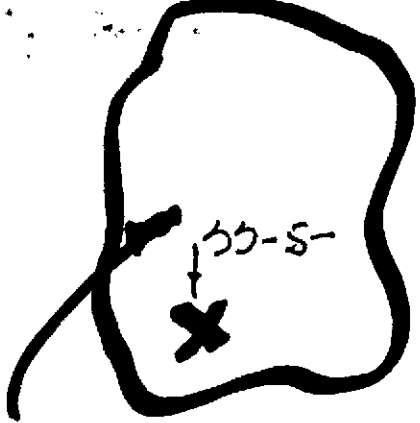
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3510 followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

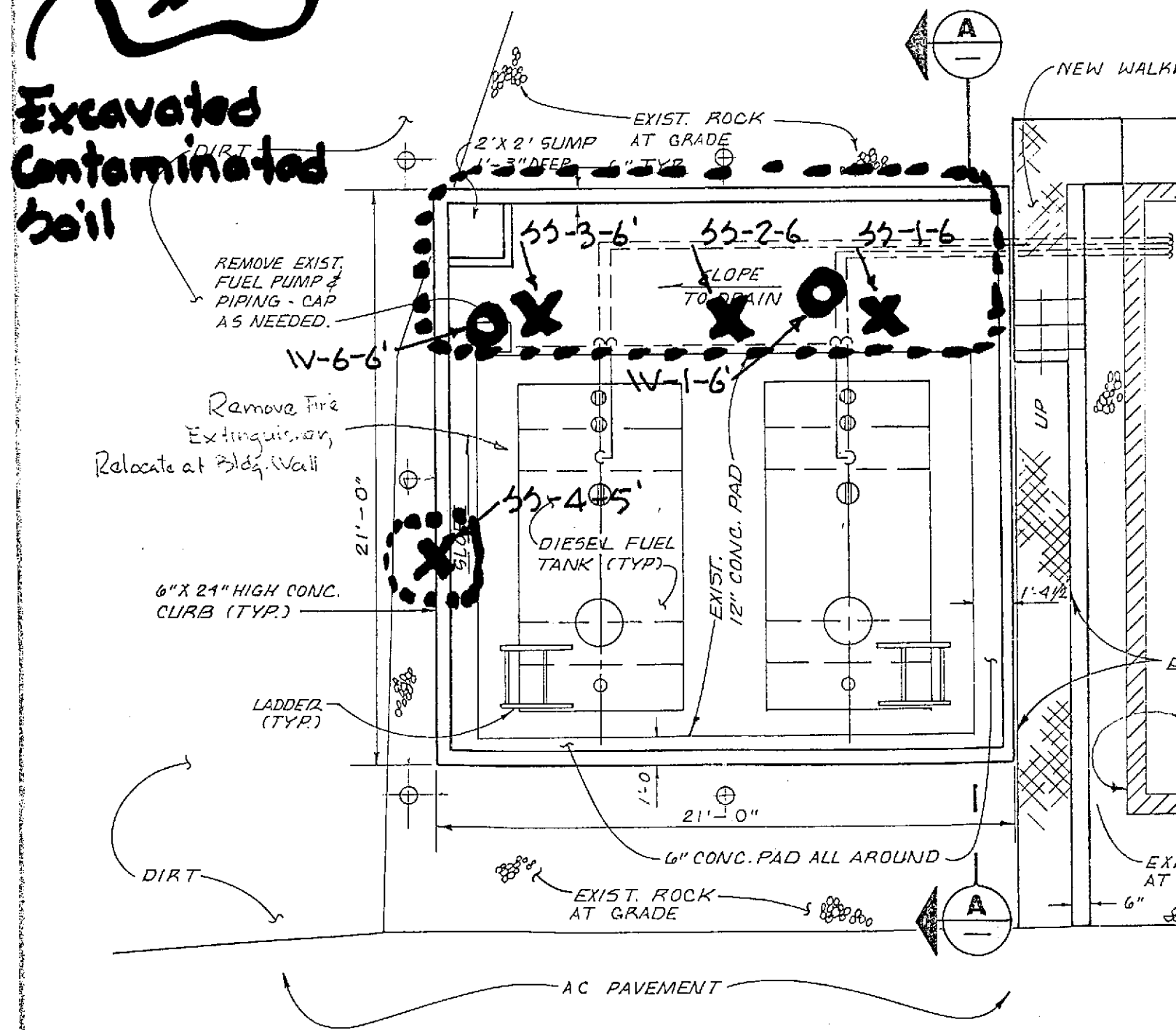
John Miller
 Laboratory Representative

10-7-92
 Date Reported

- X Soil Sample Points
- Water Sample Points
- - - Excavation Envelope



Excavated Contaminated Soil



PLAN

SCALE: 1/4" = 1'-0"



TESTING
AND
TECHNOLOGY

27-6 Commercial Blvd. - Novato, CA - 94949

(415) 883-5070
(415) 883-0859 FAX

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: OLS-299		PROJECT NAME: Old Home Sanitary			NUMBER OF CONTAINERS	ANALYSIS(ES): BT/EX TPH-D	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) DAVID NIEMAN David L Nieman								
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION				
SS-1-6'	9/17/92		GROB	#1	1	<input checked="" type="checkbox"/>		
SS-2-6'	"		"	#2	1	<input checked="" type="checkbox"/>		
SS-3-6'	"		"	#3	1	<input checked="" type="checkbox"/>		
SS-4-5'	"		"	#4	1	<input checked="" type="checkbox"/>		
SS-5-	"		"	#5 STOCK PILE	1	<input checked="" type="checkbox"/>		
SS-6-6'	"		WATER	#6 GROUND WATER (17)	1	<input checked="" type="checkbox"/>		
RELINQUISHED BY: (SIGNATURE) David L Nieman		DATE 9/17/92	TIME 11:00A	RECEIVED BY: (SIGNATURE) David L Nieman		TOTAL NO. OF SAMPLES (THIS SHIPMENT) 6	LABORATORY: EXCEL Chem	
RELINQUISHED BY: (SIGNATURE) David L Nieman		DATE 9/18/92	TIME 1:30P	RECEIVED BY: (SIGNATURE) Don Ellefson		TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 1	LABORATORY CONTACT: Joan Somers LABORATORY PHONE NUMBER: (916) 729-5313	
RELINQUISHED BY: (SIGNATURE) Don Ellefson		DATE 9/18/92	TIME 1600	RECEIVED FOR LABORATORY BY: (SIGNATURE) Mindy Somers		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES () NO		
DISTRIBUTION: WHITE, TESTING AND TECHNOLOGY GOLD, LABORATORY PINK, CLIENT GREEN, PROJECT FILE				REMARKS: 9/17/92 10:00am				

P.07
18/19/1992 11:23 FROM TESTING AND TECHNOLOGY TO 15102761528



TESTING
AND
TECHNOLOGY

27-B Commercial Blvd. - Novato, CA - 94948

(415) 883-9070
(415) 883-0888 FAX

~~KEEP REPRESENTED!~~
CHAIN OF CUSTODY RECORD

PROJECT NUMBER: OLS-299			PROJECT NAME: Oro Loma Sanitary Dist			NUMBER OF CONTAINERS	ANALYSIS(ES): BTEX LPH-D	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Dave Dupont Dave Dupont									
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION					
W-1-6	10-19-92	14:30	Composite	Ground Water (pit)		1	X	ICE	1 Liter Amber bottle provided. 5ml of water will be removed for volatiles analysis as instructed for form
RELINQUISHED BY: (SIGNATURE) Dave Dupont			DATE 10/1	TIME 16:30	RECEIVED BY: (SIGNATURE) [Signature]			TOTAL NO. OF SAMPLES (THIS SHIPMENT) 1	LABORATORY: EXCEL Chem
RELINQUISHED BY: (SIGNATURE) [Signature]			DATE 10/2/92	TIME 2000	RECEIVED BY: (SIGNATURE) [Signature]			TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 1	LABORATORY CONTACT: JOHN SAUERS
RELINQUISHED BY: (SIGNATURE) [Signature]			DATE 10/2/92	TIME 8:15 AM	RECEIVED FOR LABORATORY BY: (SIGNATURE) Mindy Sauer			LABORATORY PHONE NUMBER: (916) 729-5313	
DISTRIBUTION: WHITE, TESTING AND TECHNOLOGY GOLD, LABORATORY PINK, CLIENT GREEN, PROJECT FILE					REMARKS: STANDARD 5-DAY TURN TIME				
SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO									

10/19/1992 11:24 FROM TESTING AND TECHNOLOGY TO 15102761528 P.08