ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3658 - 1433 105th Avenue, Oakland, CA
(1-550 gallon tank removed on November 21, 1991)

April 9, 1999

Mr. Terry Kegg
Frank Kegg Trust
1433 105th Avenue
Oakland, CA 94603

Mr. Ronald Ko
1439 105th Avenue
Oakland, CA 94603

Dear Messrs. Kegg and Ko:

This letter confirms the completion of site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file 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 tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Leroy Griffin, OFD
files-ec (acoustic-11)

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StID 3658

April 9, 1999

Mr. Terry Kegg
Frank Kegg Trust
1433 105th Avenue
Oakland, CA 94603

Mr. Ronald Ko
1439 105th Avenue
Oakland, CA 94603

Re: Fuel Leak Site Case Closure for United Acoustics, 1433 105th Avenue, Oakland, CA

Dear Messrs. Kegg and Ko:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 610ppm TPH as gasoline and 0.5ppm benzene exists in soil beneath the site;
- up to 26,000ppb TPHg and 120ppb benzene exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

enlosures: 1. Case Closure Letter 2. Case Closure Summary

c: Frank Kliewer, City of Oakland, Planning Dept, 1330 Broadway, 2nd Floor, Oakland, CA 94612
files (acoustic-12)

RB#01-1540

ENVIRONMENTAL PROTECTION

99 FEB 17 PM 2:

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

FEB 08 1999

I. AGENCY INFORMATION

Date: **December 31, 1998**

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **United Acoustics**
Site facility address: **1433 105th Avenue, Oakland, CA 94603**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3658**
URF filing date: **12/9/91** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Terry Kegg **Frank Kegg Trust** **1433 105th Avenue** **Oakland, CA 94603**	**Ronald Ko** **1439 105th Avenue** **Oakland, CA 94603**	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	550	Gasoline	Removed	11/21/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Holes in UST**
Site characterization complete? **YES**
Date approved by oversight agency: **12/24/98**
Monitoring Wells installed? **Yes** Number: **1**
Proper screened interval? **Yes, 14' to 29'bgs**
Highest GW depth below ground surface: **13.15'** Lowest depth: **20.50'**
Flow direction: **WSW with .001 to .002 ft/ft gradient, using one onsite and 3 offsite wells**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Merritt Sand**
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(s) filed? **Alameda County**, **1131 Harbor Bay Pkwy**, **Alameda, CA 94502** and **Oakland Fire Dept**, **505 14th St, Ste 510**, **Oakland, CA 94612**

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	**1 UST**	**Disposed at Erickson, in Richmond, CA**	**11/22/91**
Soil	**38 cy**	**Disposed at Vasco Rd L.F. in Livermore, CA**	**4/22/92**

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	**610**	**610**	**235,000**	**26,000**
Benzene	**6.9**	**0.5**	**5,600**	**120**
Toluene	**28**	**11**	**15,000**	**72**
Ethylbenzene	**8.9**	**8.9**	**5,200**	**1,000**
Xylenes	**55**	**55**	**29,000**	**2,700**
MTBE	**NA**	**NA**	**NA**	**ND**

NOTE: 1 maximum soil concentrations at time of tank removal and overexcavation, 11/91 & 12/91
2 soil concentrations from pit bottom after overexcavation to 16.5'bgs, 12/91
3 groundwater from well MW-1, 4/94
4 most recent sampling event, 8/98

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____
Does corrective action protect public health for current land use? **YES**
Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **No, pending site closure**
Number Decommissioned: **0** Number Retained: **1**
List enforcement actions taken: **NOV issued 1/4/94 and 2/16/96. Pre-Enforcement Review on 6/24/96.**
List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Eva Chu Date: 1/28/99

Reviewed by

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: Barney Chan Date: 12/31/98

Name: **Thomas Peacock** Title: **Supervisor**

Signature: Thomas Peacock Date: 1-29-99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 1/28/99 RB Response:

RWQCB Staff Name: **Chuck Headlee** Title: **EG**

Signature: Chuck Headlee Date: 2/8/99

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently a light industrial/business complex. The main tenants include the Oakland Ballet, Winca Chemicals (a laundry supply service), Borken & Dawson Construction, a cabinet making business, and United Acoustics (an acoustic ceiling tile installer).

A 550-gallon gasoline UST, located under the sidewalk and in front of the subject property, was removed in November 1991. Small pea-sized holes were noted along the tank's sides. Soil samples were collected from the sidewalls, pit bottom, and beneath the product line. The samples were analyzed for TPHg and BTEX. All samples contained elevated levels of these constituents. The pit was overexcavated in December 1991 and terminated at 16.5'bgs, within the capillary fringe. The confirmatory soil sample collected from the excavation bottom still contained elevated TPHg and BTEX constituents. Approximately 38cy of impacted soil was removed. (See Fig 1, 2, Table 1)

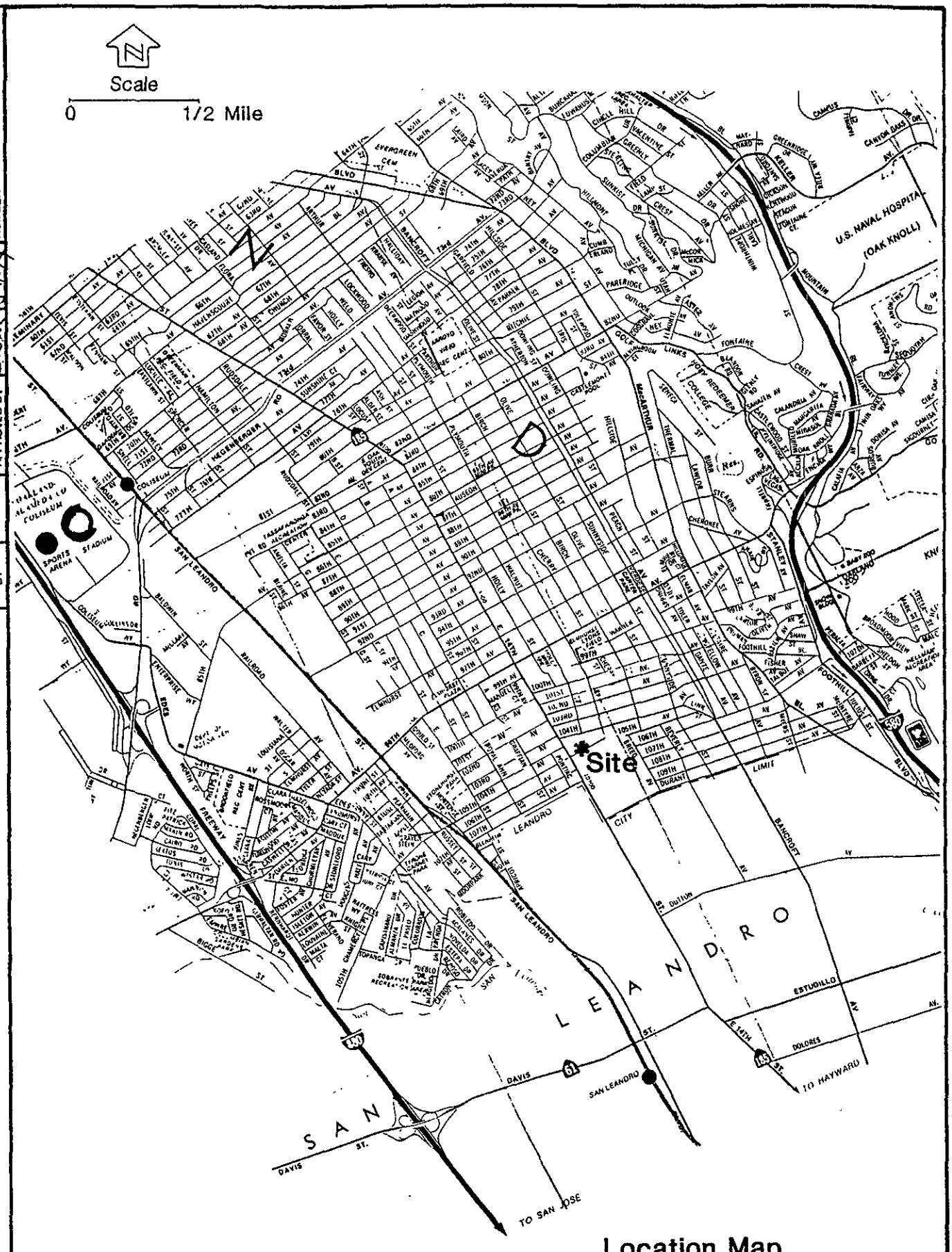
In April 1994 a total of four exploratory soil borings (MW1, B1, B2, and B3) were drilled to delineate the extent of soil and possible groundwater contamination at the site. Each boring was advanced to ~25'bgs. Boring MW-1 was advanced to 31'bgs and converted into a 2" diameter groundwater monitoring well. Groundwater was encountered at ~24'bgs and quickly rose to 18'bgs, indicating confined water conditions. Soil and groundwater samples were collected from each boring. Analytical results indicate that hydrocarbon distribution in the soil is limited to depths of 16' to 22'bgs in the vicinity of the former UST excavation. (See Fig 3, Table 2, 3)

Groundwater was sampled seven times (from 4/94 to 8/98). Benzene levels have decreased from 5,600ppb in 1994 to 120ppb in 1998 (see Table 4). An offsite monitoring well (MW-1-O) at Lloyd Wise Oldsmobile (10440 E 14th Street), located ~120' downgradient of the subject property, did not identify BTEX constituents in 4/94, 11/94, 5/95, or 8/95, indicating that the dissolved plume is not migrating offsite. The decreasing hydrocarbon levels in groundwater noted over the years are most likely due to natural biodegradation. Current benzene concentrations in groundwater should not pose a risk to human health, based on ASTM RBCA Tier 1 Look-Up Table for groundwater volatilization to indoor/outdoor air. And, residual benzene concentrations in soil, which is confined to the capillary fringe or below groundwater level, should not pose a risk to human health either. Continued groundwater sampling is not warranted.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
  residual soil contamination is limited to 16' to 22'bgs
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

acoustic-9



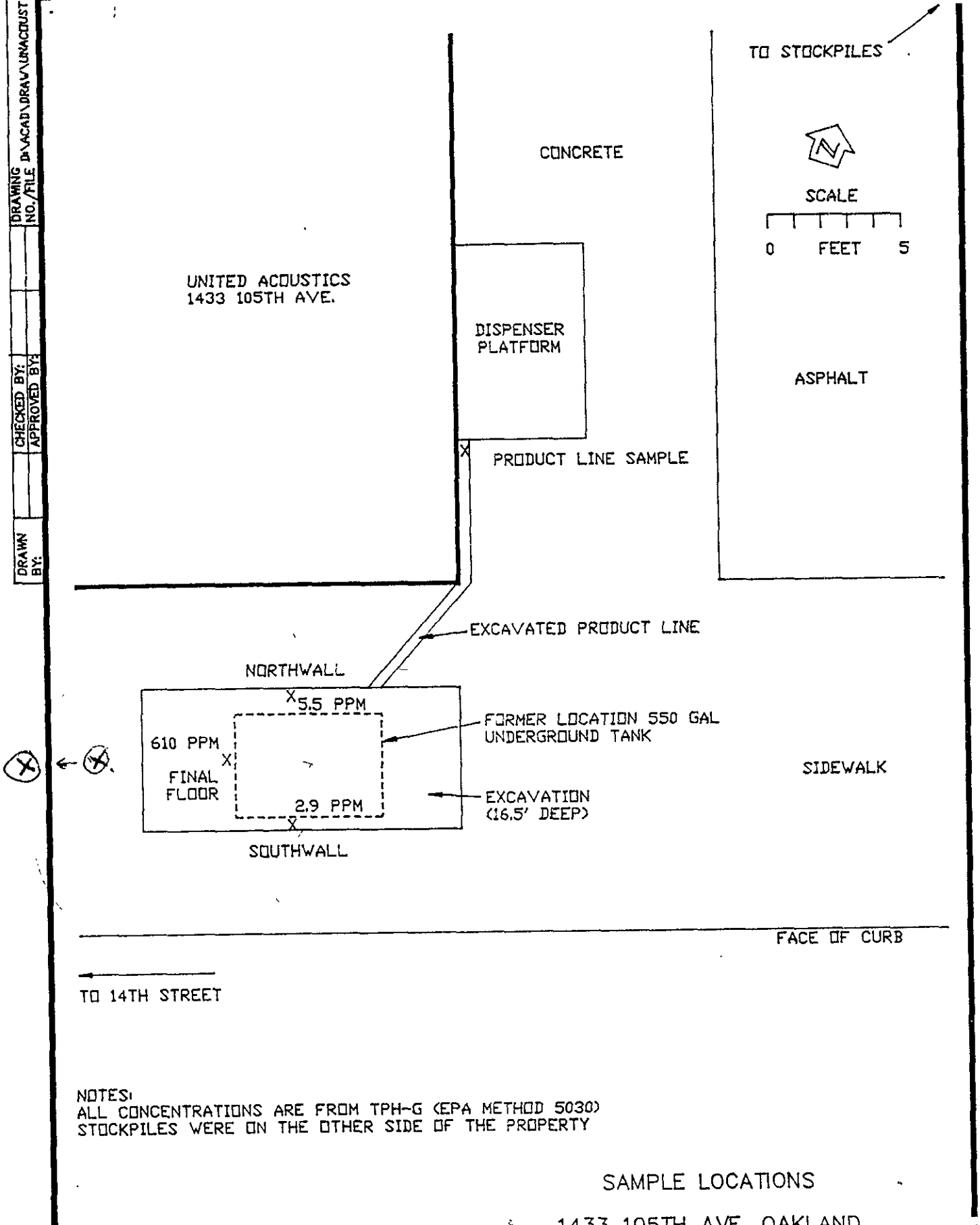
Location Map

1433 105th Ave, Oakland

RES Project 4218-9307

FIGURE 1

RIEDEL ENVIRONMENTAL SERVICES, INC. Richmond, California



NOTES:
ALL CONCENTRATIONS ARE FROM TPH-G (EPA METHOD 5030)
STOCKPILES WERE ON THE OTHER SIDE OF THE PROPERTY

SAMPLE LOCATIONS

1433 105TH AVE, OAKLAND

RIEDEL ENVIRONMENTAL SERVICES, INC RICHMOND, CALIFORNIA

RES PROJECT 4030-9101

FIGURE 2

TABLE 1

SOIL SAMPLE RESULTS

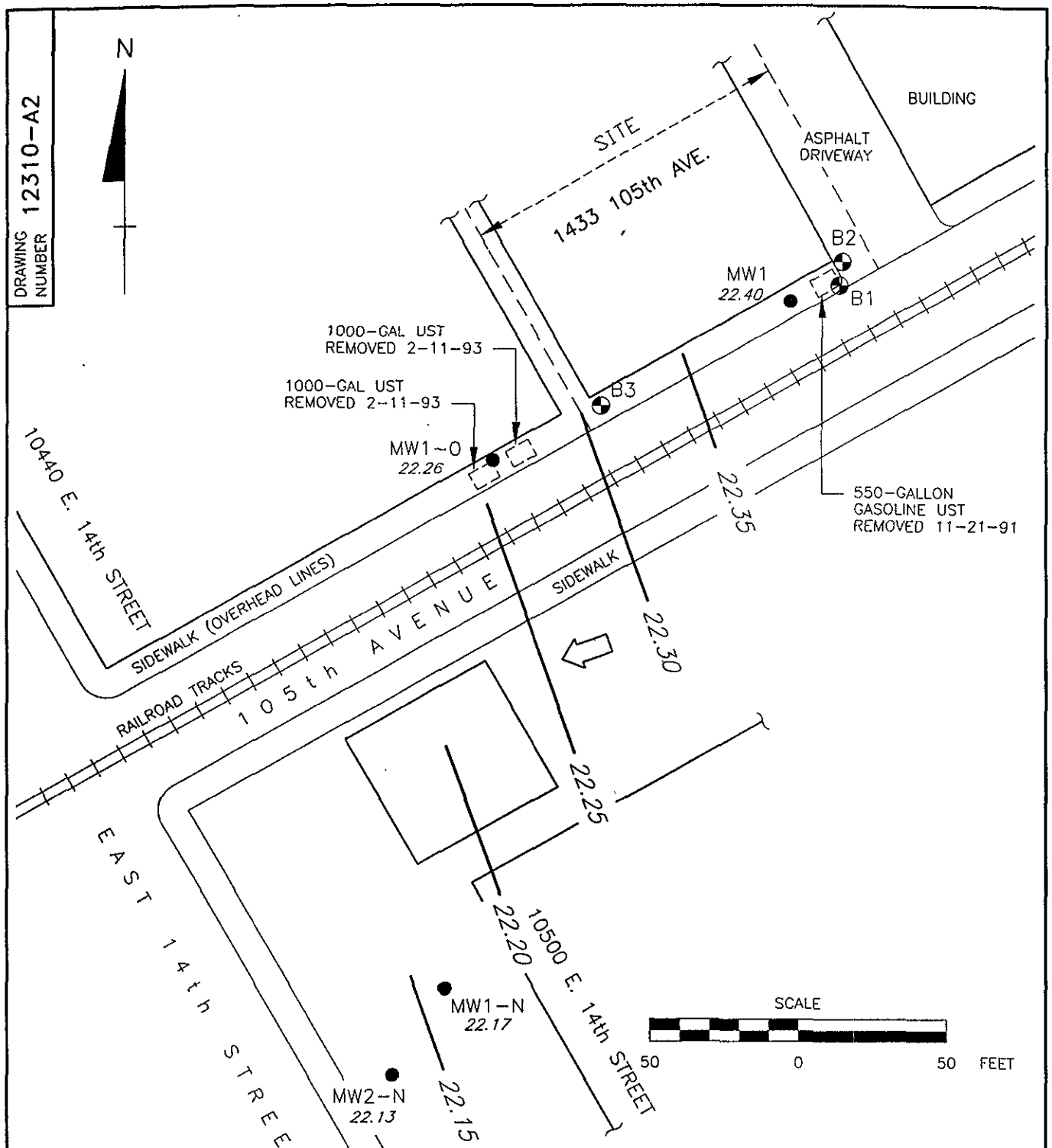
1433 105th Avenue

Oakland, California

November 22 and December 9, 1991

	GASOLINE	BENZENE	TOLUENE	XYLENE	ETHYL-BENZENE
Initial Floor	240	6.9	28	48	8.8
Final floor	610	0.5	11	55	8.9
North Wall	5.5	0.31	0.62	3.3	0.55
South Wall	2.9	0.31	0.22	3.3	0.66
Product line	14	0.006	0.025	0.040	0.006
Stockpile #1 (Composite)	50	0.24	2.6	7.8	1.1
Stockpile #2 (Composite)	1,640	14	220	430	82

Concentrations in parts per million (ppm)



LEGEND:

- B1 — EXPLORATORY SOIL BORING
- MW1 — MONITORING WELL
- 22.13 — GROUND WATER ELEVATION IN FEET (MSL)
- 22.15 — POTENTIOMETRIC CONTOUR
- GROUND WATER FLOW DIRECTION
  GRADIENT = 0.001

POTENTIOMETRIC MAP
(10-4-96)
1433 105th AVENUE
OAKLAND, CALIFORNIA

PREPARED FOR

KEGG PROPERTIES
OAKLAND, CALIFORNIA

No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY
1		ISSUED FOR REPORT	VZC		

DATE: 11-26-96
SCALE: AS SHOWN

FIGURE 4

DRAWING NUMBER 12310-A2

TABLE 1: Analytical Results: Soil Samples
1433 105th Avenue
Oakland, California

Sample ID#	Date	Depth (feet)	TPHg	Benzene	Toluene	E-Benz	Total Xylenes	CAM 17 Metals	STLC Lead mg/L	RCI
			<---------- mg/Kg ---------->							
MW1-16	12-Apr-94	16	250	<0.03	0.07	0.3	1.8	---	---	---
MW1-22	12-Apr-94	22	530	0.3	8.9	9.1	47	---	---	---
B1-21.5	12-Apr-94	21.5	9.7	<0.005	<0.005	0.02	0.08	---	---	---
B2-21.5	13-Apr-94	21.5	3.5	<0.005	<0.005	<0.005	0.02	---	---	---
B3-23.5	13-Apr-94	23.5	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---
COMPOSITE*		*	*	---	---	---	---	---	0.55	**

NOTES:

All samples were analyzed by Precision Analytical, Inc., Richmond, CA
TPHg = Total Petroleum Hydrocarbons as gasoline, by EPA Method 5030/8015
E-Benz = Ethylbenzene
Analyses for benzene, toluene, ethylbenzene and total xylenes were by EPA Method 8020
CAM 17 Metals = total California Assessment Manual 17 Metals by EPA Method 6010/7000 series
STLC Lead = Soluble Threshold Limit Concentration lead by WET/EPA Method 3010
RCI = Reactivity, Corrosivity, and Ignitability by Title 22 methods
mg/Kg = milligrams per kilogram or parts per million (ppm)
mg/L = milligrams per liter
< = less than listed detection limit
--- = not analyzed
* = Composite soil sample (MW1-16, MW1-22, B1-21.5, B2-21.5, B3-23.5)
** = results below Title 22 action levels, see analytical reports

TABLE 2: Analytical Results: Ground Water Samples
1433 105th Avenue
Oakland, California

Sample ID#	Date	TPHg	Benzene	Toluene	E-Benz	Total Xylenes
		<----------	µg/L	----------		>
MW1-194	15-Apr-94	235000	5600	15000	5200	29000
B1-H2O	13-Apr-94	84000	710	920	3000	12000
B2-H2O	13-Apr-94	93000	260	120	610	1450
B3-H2O	13-Apr-94	4500	640	2	260	220

NOTES:

All samples were analyzed by Chromalab, Inc., San Ramon, CA
TPHg = Total Petroleum Hydrocarbons as gasoline, by EPA Method 5030/8015
E-Benz = Ethylbenzene
Analyses for benzene, toluene, ethylbenzene and total xylenes were by EPA Method 602
µg/L = micrograms per liter or parts per billion (ppb)
< = less than listed detection limit

Table 1. Summary of Groundwater Monitoring Data
Kegg Properties, 1433 105th Ave., Oakland, California

Well No. With TOC Elevation (feet msl)	Date	Field Measurement		Laboratory Analytical Data (ug/L)					
		Depth to Water	Ground Water Elevation	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-1 40.74									
	8/27/98	16.10	24.64	26000	120	72	1000	2700	ND
	3/27/97	14.99	25.75	37000	740	640	2200	8500	ND
	10/4/96	18.34	22.40	38000	670	640	2200	9900	NA
	1/24/95	13.15	27.59	162200	2360	4600	2800	20000	NA
	10/20/94	20.50	20.24	212900	4700	11900	4800	27500	NA
	7/26-94	19.50	21.24	92000	3000	8600	1900	16400	NA
	4/15/94	18.42	22.32	235000	5600	15000	5200	29000	NA
MW-1-0 40.66									
	8/2798	16.00	24.66						
	3/27/97	15.16	25.50						
	10//4/96	18.40	22.26						
	1/24/95	13.33	27.33						
	10/20/94	20.59	20.07						
	7/26/94	19.65	21.01						

Notes:

TOC Top of Casing. Kegg Properties well surveyed July 1994 by Ron Archer, Civil Engineer. Lloyd Wise wells surveyed by August 1995, Civil Engineer
Msl Elevation relative to mean sea level. Lloyd Wise well elevations converted from City of Oakland datum.

RIEDEL ENVIRONMENTAL SERVICES, INC
4138 LAKESIDE DRIVE
RICHMOND, CALIFORNIA 94806
(510) 222-7810

LOG OF BORING/MONITORING WELL MW1

SHEET 1 OF 1

PROJECT NO.: 4218-9307	DRILLING CO.: Bayland Drilling	BORING TOTAL DEPTH (FT): 31.5'
PROJECT NAME: United Acoustics	DRILL RIG MODEL: CME 55	TOP OF CASING ELEVATION (FT MSL) NA
LOCATION: 1433 105th Ave. Oakland	DRILLING METHOD: 8" Hollow Stem Auger	TOP OF VAULT BOX ELEV. (FT MSL) NA
FILE NAME: D:\ACAD\DRAW5-94\Un-AcoB1	SAMPLER TYPE: CA Modified Split Spoon	SCREENED INTERVAL: 14'-29'
	LOGGED BY: Len Niles, RG	LOCAL AGENCY: Alameda County Zone 7
DATE DRILLED: 4/12/94	APPROVED BY: Chris White, RG	PERMIT NO.: 94092

DEPTH IN FT	WELL CONSTRUCTION DIAGRAM	PID (PPM) / PENETROMETER TSF	BLOW COUNT	GROUND WATER LEVELS	SAMPLES	SAMPLE I.D.	DEPTH IN FT	LITHOGRAPHIC COLUMN	LITHOGRAPHIC DESCRIPTION
0-33	7" VAULT BOX LOCKING CAP CEMENT HOLE = 8" DIA. BENTONITE 2" ID SCH. 40 PVC CASING 0-14 FEET #2/12 (12X20) LONESTAR SAND 2" ID SCH 40 0.02" SLOT WELL SCREEN 14' TO 29' 2" END CAP	8.8 10.9 11.7 9.7 2500 1255 2500 2500 1696 616 284 102 110	Hand Auger to 5' 6 12 16 4/12 16:53 4/12 11:37		MW1-16 MW1-22 NR NR NR NR NR			SW CL CL CL SC CL CL	CONCRETE SIDEWALK: 6" Thick. GRAVELLY SAND: Dark Grayish Brown; Moist; <10% Fines; Fine-Coarse Sand; Fine Gravel; Fill. SANDY CLAY: Very Dark Grayish Brown; Damp; 10% Fine Sand. AS ABOVE Except 30-40% Fine Sand; Very Moist CLAY: Very Dark Gray; Medium Stiff; Damp; 0-5% Fine Sand. AS ABOVE Except Very Stiff AS ABOVE Except Color Change to Dark Grayish Brown at 10.5'. AS ABOVE Except Olive Gray with Greenish Gray Discoloration; Medium Stiff; Damp-Moist; Hydrocarbon HC Odor AS ABOVE. SANDY CLAY: Olive Gray/Greenish Gray; Stiff; Damp-Moist; 20-40% Fine Sand; HC Odor. CLAY: Olive Greenish Gray; Stiff; Damp; 0-5% Sand. Driller reports soft drilling at 17.5'. HC Odor AS ABOVE Except Stiff; Wet Seams & Voids in Peds/Structures AS ABOVE. CLAYEY SAND: Dark Greenish Gray; Loose; Moist-Wet; 30-50% Fines; Fine Sand; HC Odor. AS ABOVE. Water on Drill Bit; Product Sheen on Water AS ABOVE. SANDY CLAY: Dark Olive Gray/ Dark Greenish Gray; Stiff; Moist; 20-40% Fine Sand; HC Odor. CLAY: Olive Gray; Stiff; Damp; <10% Fine Sand AS ABOVE Except Medium Stiff; Slight HC Odor Auger at 29', Sampler sank to 30' under own weight. AS ABOVE Except Very Soft. Total Depth = 31.5' Auger Depth = 29'

RIEDEL ENVIRONMENTAL SERVICES, INC
4138 LAKESIDE DRIVE
RICHMOND, CALIFORNIA 94806
(510) 222-7810

LOG OF BORING/MONITORING WELL B1

SHEET 1 OF 1

PROJECT NO.: 4218-9307	DRILLING CO.: Bayland Drilling	BORING TOTAL DEPTH (FT): 25'
PROJECT NAME: United Acoustics	DRILL RIG MODEL: CME 55	TOP OF CASING ELEVATION (FT MSL) NA
LOCATION: 1433 105th Ave Oakland	DRILLING METHOD: 8" Hollow Stem Auger	TOP OF VAULT BOX ELEV. (FT MSL) NA
FILE NAME: D:\ACAD\DRAWS-94\Un-AcoB1	SAMPLER TYPE: CA Modified Split Spoon	SCREENED INTERVAL: NA
	LOGGED BY: Len Niles, RG	LOCAL AGENCY: Alameda County Zone 7
DATE DRILLED: 4/12/94	APPROVED BY: Chris White, RG	PERMIT NO.: 94092

DEPTH IN FT	WELL CONSTRUCTION DIAGRAM	PID (PPM)	PENETROMETER TSF	BLOW COUNT	GROUND WATER LEVELS	SAMPLES	SAMPLE I.D.	DEPTH IN FT	LITHOGRAPHIC COLUMN	LITHOGRAPHIC DESCRIPTION
0-25	CEMENT; HOLE = 8" DIA.; TEMPORARY 2" I.D. 0.01" SLOT WELL SCREEN (REMOVED)	37.8; 21.3; 856; 2109		NA; 3 6 11; 1 2 4; 4 5 7	4/12/94 8:30; 4/12/94 17:30		B1-21		CL; CL	CONCRETE SLAB SANDY CLAY: Very Dark Grayish Brown; Damp. 10-20% Fine Sand. CLAY: Very Dark Gray, Damp; <10% Fine Sand. AS ABOVE Except Dark Grayish Brown with Greenish Gray Relic Structures; Stiff, Damp; <10% Fine Sand. AS ABOVE Except Dark Olive Gray Mottled with Greenish Gray; Damp; Medium Stiff; <10% Sand; Hydrocarbon (HC) Odor. AS ABOVE Except Olive Brown with Bluish Gray Void Spaces, Discoloration along Contaminant Paths Stiff, Damp, <10% Fine Sand; HC Odor Bottom of Borehole at 25'

RIEDEL ENVIRONMENTAL SERVICES, INC
4138 LAKESIDE DRIVE
RICHMOND, CALIFORNIA 94806
(510) 222-7810

LOG OF BORING/MONITORING WELL B2

SHEET 1 OF 1

PROJECT NO.: 4218-9307	DRILLING CO.: Bayland Drilling	BORING TOTAL DEPTH (FT): 25'
PROJECT NAME: United Acoustics	DRILL RIG MODEL: CME 55	TOP OF CASING ELEVATION (FT MSL) NA
LOCATION: 1433 105th Ave. Oakland	DRILLING METHOD: 8" Hollow Stem Auger	TOP OF VAULT BOX ELEV. (FT MSL) NA
FILE NAME: D:\ACAD\DRAW5-94\Un-AcoB1	SAMPLER TYPE: CA Modified Split Spoon	SCREENED INTERVAL: NA
	LOGGED BY: Len Niles, RG	LOCAL AGENCY: Alameda County Zone 7
DATE DRILLED: 4/13/94	APPROVED BY: Chris White, RG	PERMIT NO.: 94092

DEPTH IN FT	WELL CONSTRUCTION DIAGRAM	PID (PPM)	PENETROMETER TSF	BLOW COUNT	GROUND WATER LEVELS	SAMPLES	SAMPLE I.D.	DEPTH IN FT	LITHOGRAPHIC COLUMN	LITHOGRAPHIC DESCRIPTION
0								0		CONCRETE SLAB - Sidewalk
1								1		
2	CEMENT							2	CL	SANDY CLAY. Very Dark Gray; 10-15% Fine Sand. Damp; Medium Plasticity (Cuttings)
3								3		
4								4		
5								5		AS ABOVE Except Dark Grayish Brown; Moist; 20-30% Fine Sand; Low-Medium Plasticity. No Odor (Cuttings)
6								6		
7								7		
8								8		
9								9		
10								10		
11	HOLE = 8" DIA.							11		
12								12	CL	CLAY. Dark Brown; Damp; <10% Fine Sand; Medium Plasticity; No Odor (Cuttings)
13								13		
14								14		
15		17.7						15		AS ABOVE. Medium Stiff
16		20.7						16		CLAY. Dark Greenish Gray Discoloration at 15.5 Medium Stiff; Damp; <10% Fine Sand; Very Slight Hydrocarbon (HC) Odor
17	TEMPORARY 2" ID SCH. 40 PVC SLOT 37.8 WELL SCREEN (REMOVED							17	CL	
18								18		
19								19		
20		27.8						20		AS ABOVE Except Dark Brown with Greenish-Gray Mottling around Voids; Damp, Very Slight HC Odor
21								21		
22								22		
23								23		
24								24		
25								25		Bottom of Borehole at 25'
26								26		
27								27		
28								28		
29								29		
30								30		
31								31		
32								32		
33								33		

4/13 13:18

B2-[illegible]

4/13 13:00

RIEDEL ENVIRONMENTAL SERVICES, INC
4138 LAKESIDE DRIVE
RICHMOND, CALIFORNIA 94806
(510) 222-7810

LOG OF BORING/MONITORING WELL B3

SHEET 1 OF 1

PROJECT NO.: 4218-9307	DRILLING CO.: Bayland Drilling	BORING TOTAL DEPTH (FT): 23.5
PROJECT NAME: United Acoustics	DRILL RIG MODEL: CME 55	TOP OF CASING ELEVATION (FT MSL) NA
LOCATION: 1433 105th Ave. Oakland	DRILLING METHOD: 8" Hollow Stem Auger	TOP OF VAULT BOX ELEV. (FT MSL) NA
FILE NAME: D:\ACAD\DRAW5-94\Un-Aco81	SAMPLER TYPE: CA Modified Split Spoon	SCREENED INTERVAL: NA
	LOGGED BY: Jen Niles, RG	LOCAL AGENCY: Alameda County Zone 7
DATE DRILLED: 4/13/94	APPROVED BY: Chris White, RG	PERMIT NO.: 94092

DEPTH IN FT	WELL CONSTRUCTION DIAGRAM	PID (PPM)	PENETROMETER TSF	BLOW COUNT	GROUND WATER LEVELS	SAMPLES	SAMPLE I.D.	DEPTH IN FT	LITHOGRAPHIC COLUMN	LITHOGRAPHIC DESCRIPTION
0-33	CEMENT; CASING = 8" DIA.; TEMPORARY (2" @ 0.01" SLOT WELL SCREEN REMOVED)	17.6; 18.5; 15.9; 20.7; 22.8			4/13 16.04'; 4/13 16.30'		B3-23.5	0-33	CL; CL; SC	CONCRETE SLAB – Sidewalk SANDY CLAY: Very Dark Grayish Brown, Moist; 10-20% Fine Sand; Medium Plasticity (Cuttings) CLAY: Very Dark Grayish Brown; Damp; <10% Fine Sand, Medium Plasticity. AS ABOVE Color Change at 12.5' to Dark Brown (Cuttings) AS ABOVE Except Very Dark Grayish Brown AS ABOVE Except Olive Brown SANDY CLAY: Light Olive Brown with Gray along Voids; Medium Stiff; Moist, Wet along Voids, 10-30% Fine Sand; No Odor. CLAYEY SAND: Light Olive Brown, Loose; Moist, <50% Fines; Fine Sand. Bottom of Borehole at 25'