ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 12, 1999 StID # 3764 ENVIRONMENTAL HEALTH SERVICES 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

REMEDIAL ACTION COMPLETION CERTIFICATION

Odili Ojukwu City of Oakland Public Works Agency 250 Frank H. Ogawa Plaza, Ste 5301 Oakland, CA 94612

RE: Oakland Fire Station #6, located at 7080 Colton Blvd., Oakland, CA 94611

Dear Mr. Ojukwu:

This letter confirms the completion of site investigations and remedial action for the former 285-gallon diesel fuel underground storage tank removed from 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 tank is greatly appreciated.

Based upon the available information and with provisions 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, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Juliet Shin at (510) 567-6763 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung

Director, Environmental Health

C: J. Shin, Hazardous Materials Division-files Chuck Headlee, RWQCB

-Mr. Dave Deaner, SWRCB Cleanup Fund

Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612

pb#01-0635

ENVIRONMENTAL PROTECTION

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

.99 APR 20 PM 1: 23

I. AGENCY INFORMATION

Date: February 23, 1999

Agency name: Alameda County-HazMat

Address: 1131 Harbor Bay Pkwy

City/State/Zip: Alameda, CA 94502 Responsible staff person: Juliet Shin Phone: (510) 567-6700
Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Oakland Fire Station #6

Site facility address: 7080 Colton Blvd., Oakland, CA 94611

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3764

URF filing date: 04/21/89 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

City of Oakland 250 Frank H. Ogawa Plaza, Ste 5301 (510) 238-7371

Contact: Odili Ojukwu Oakland, CA 94612

Tank Size in Contents: Closed in-place Date:

No: gal.: or removed?:

1 285 Diesel Removed 3/23/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown Site characterization complete? YES Date approved by oversight agency:

Monitoring Wells installed? One temporary piezometer was installed within 3 feet downgradient of the former tank pit on June 05, 1989, and was screened from roughly 9- to 18-feet below ground surface.

Proper screened interval? YES

Highest GW depth below ground surface: 9-feet below ground surface Lowest depth: It appears that the water was perched and that groundwater only went down a couple of feet to roughly 11-feet bgs, where fairly impermeable claystone was encountered.

Flow direction: Unknown

Most sensitive current use: Not Applicable

Are drinking water wells affected? No. According to the MapInfo Database, Version 3, there are no

wells within 1,000 feet of the site. Aquifer name: Unknown

Is surface water affected? Surface waters do not appear to be affected based on no observed oily surface runoff or stained soil in the area of the former tank at the time of site inspection. The nearest surface waters are Temescal Creek, located roughly 2,000-feet north of the site, and Shepherd Creek, located roughly 3,000 feet southeast of the site.

Off-site beneficial use impacts (addresses/locations): No known beneficial use impacts.

Report(s) on file? YES Where is report(s) filed? Alameda County O

1131 Harbor Bay Pkwy and Alameda, CA 94502

Oakland Fire Dept 505 14th St, Ste 510 Oakland, CA 94612

Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank	One 285-gallon	H & H Ship Service Co. 220 China Basin Street San Francisco, CA 94107	03/23/89
Soil	~17 tons	Liquid Waste Management Corner Hwy 33 and Hwy 58 McKittrick, CA 93251	04/28/89

Ma	ximum Documented	Contaminant Concentration	ns Before and After Cleanup
_		A 11 ()	147 4 . 7 . 1 1

Contaminant	Soil (ppm}	Water (ppb)	
	Before 1	After	Before After ³	
TPH (Gas)	ND^2	ND	ND	
TPH (Diesel)	ND	ND	ND	
Benzene	ND	ND	ND	
Toluene	ND	1.0 ²	ND	
Ethylbenzene	ND	ND	ND	
Total Xylenes	ND	ND	ND	
MTBE	.ND⁴	NA ⁵	NA	
Oil and Grease	230	ND^2	140,000	
Kerosene	ND^2		ND	

NA-Not Analyzed ND-Not Detected

- 1- Soil samples collected during the tank removal on March 23, 1989.
- 2- Soil samples collected from 4-, 10-, 14-, and 20-feet below ground surface from the temporary piezometer installed on June 09, 1989.
- 3- Groundwater sample collected from perched groundwater after overexcavation of the tank pit, from a piezometer located roughly 3 feet downgradient of the former tank pit.
- 4- From soil sample collected from 8-feet bgs adjacent to the former UST in June 1999.
- 5- The collection of groundwater was attempted in June 1999, but there was no groundwater down to 8.5-feet bgs. They encountered claystone at 8.5-feet bgs.

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the

Regional Board Basin Plan? YES

Does completed corrective action protect potential beneficial uses per the

* Regional Board Basin Plan? YES

Does corrective action protect public health for current land use? YES

Site management requirements: A site safety plan addressing the potential contact with oil and grease-contaminated perched water must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual contamination.

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommissioned: The temporary piezometer still remains at the site and must be removed prior to granting closure certification to prevent a conduit to the subsurface.

List enforcement actions taken: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Juliet Shin

Signature: Juliet Sun

Reviewed by

Name: Eva Chu

Signature: Low

Name: Thomas Peacock

Signature

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RWQCB Staff Name: Chuck Headlee

Chuck Hearles

Signature:

Title: Haz Mat Specialist

Date: 03/01/99

Title: Haz Mat Specialist

Date: 3/1/99

Title: Supervisor

Date: 3-12-9

RB Response:

Title: EG

Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is located at the southern corner of the intersection of Colton Boulevard, Skyline Boulevard and Snake Road in a predominantly residential area of the Oakland Hills (refer to attached Site plan). On March 23, 1989, one 285-gallon diesel underground storage tank and associated piping was removed from the site. According to a County Inspection Report, dated March 23, 1989, no holes were noted in the tank, and the tank was covered with tar. No groundwater was encountered in the tank pit during the tank removal. According to the report, the tank pit appeared to be clean and no odors emanated from the pit, however, the excavated soil emanated a slight odor (refer to attached copies of tank manifest and County Inspection report). One soil sample was collected from the sidewall of the tank pit at an unknown depth, and one three-point composite soil sample was collected from the excavated stockpiled soil. These samples were analyzed for Total Petroleum Hydrocarbons as Diesel (TPHD), Oil and Grease using Standard Method 503E, and benzene, toluene, ethylbenzene, and total xylenes. Analysis of these samples identified 230 parts per million (ppm) Oil and Grease in the sidewall sample, and 430ppm Oil and Grease and 24ppm TPHD in the stockpile soil sample (refer to attached copies of laboratory analysis results and Unauthorized Release Leak Report Form).

Based on the levels of Oil and Grease identified in the initial tank removal samples, the tank pit was overexcavated on April 18, 1989. One additional soil sample was collected. According to statements from the City of Oakland, this sample was collected from the bottom of the excavation. However, the depth is unknown. This sample was analyzed for Oil and Grease using Standard Method 503E, and no Oil and Grease was identified above detection limits. According to disposal receipts, a total of 17 tons of excavated soil was generated from the tank pit and hauled off site to Liquid Waste Management in McKittrick, California (refer to attached copy of disposal receipt).

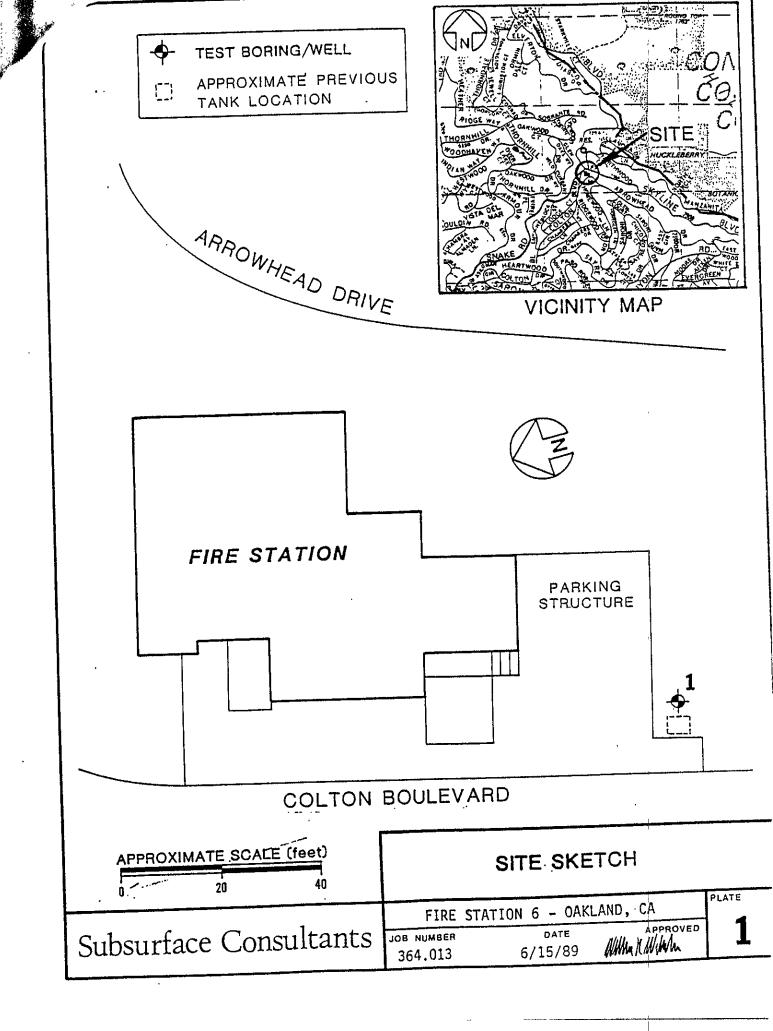
One exploratory boring was installed at the site on June 5, 1989, roughly 3 feet downgradient of the former tank pit to assess the downgradient extent of soil and/or groundwater contamination. The downgradient direction was determined to be downslope based on the steep 3:1 slope of the hill where the former tank was located. Four soil samples were collected from the boring from 4-, 10-, 14-, and 20-feet below ground surface (bgs), and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHG), kerosine, TPHD, Oil and Grease, and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Analysis of these samples did not identify any contaminants above detection limits.

During the installation of the boring, groundwater was encountered first at roughly 9-feet bgs. The boring was finished as a temporary piezometer, with a screened interval of 9- to 18-feet bgs. One "grab" groundwater sample was collected from the piezometer prior to purging (refer to attached copy of boring log). This sample was analyzed for all the same constituents as the above soil samples collected from the same location. Analysis of the groundwater sample identified up to 140,000 parts per billion (ppb) Oil and Grease and no other contaminants were identified above detection limits. Four subsequent attempts were made to sample the groundwater from this piezometer on October 31, 1989, February 02, 1990, May 01, 1990, and August 01, 1990. The piezometer was recorded as being completely dry on each of these dates, therefore no additional groundwater samples could be collected. Based on this information and the soil types at the site, it appears that the groundwater initially encountered was perched groundwater.

In June 1999, Subsurface Consultants, Inc. attempted to collect a groundwater sample at the former UST and analyze it for MTBE, and BTEX. They bored down to 8.5-feet bgs, and encountered claystone and no groundwater, so only one soil sample was collected from native lean clay at 8-feet bgs and analyzed for the constituents of concern. No contaminants were identified.

This office is recommending that this site be closed for the following reasons:

- The initial soil samples collected from around the former 285-gallon diesel underground storage tank did not identify any BTEX and only low levels of TPHD at 24ppm and Oil and Grease at 230ppm and 430ppm. This contamination was subsequently overexcavated and hauled off site. Confirmatory soil samples collected from the tank pit after the overexcavation were all Non Detect for Oil and Grease and TPHG, TPHD, BTEX, and kerosine.
- Although 140,000ppb of Oil and Grease was identified in perched groundwater encountered in the temporary piezometer, it is unlikely that surface water is infiltrating this "perched zone" due to evidence that the piezometer never recharged after a one-time purging in June 1989. Additionally, the soil types and extensive vegetation in the area of the former tank would be likely to retard future infiltration in this area.
- The nearest surface waters to the site appear to be Temescal Creek, located roughly 2,000 feet north of the site, and Shepherd Creek, located roughly 3,000 feet from the site.
- No groundwater wells are located within 1,000 feet of the site.



white -env.health yellow -facility -flles plnk

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Inspection Form

H	azardous Materials Inspection Form
	Site Site Name City of Oakland Joday's 123,89
<u></u>	-Site Site Name City of Oakland Date 3/23/89
II.A BUSINESS PLANS (Tille 19)	1 00 - 00 0
1, immediate Reporting 2703	Site Address 7080 Collan Blod.
2. Bus. Plan Stds. 25503(b) 3. RR Cars > 30 days 25503.7 4. Inventory information 25504(a)	00-1
5. Inventory Complete 2730 6. Emergency Response 25504(b)	City Oakland zip 9461 Phone
7. Training 25504(c) 8. Deficiency 25505(a)	MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
9. Modification 25505(b)	Inspection Categories:
II.B ACUTELY HAZ. MATLS	I. Haz. Mat/Waste GENERATOR/TRANSPORTER
10. Registration Form Filed 25533(a) 11. Form Complete 25533(b)	III. Underground Tanks
12, RMPP Contents 25534(c) 13, Implement Sch. Regid? (Y/N)	
14. OffSite Conseq. Assess. 25524(c) 15. Probable Risk Assessment 25534(d)	Callf. Administration Code (CAC) or the Health & Safety Code (HS&C)
16. Persons Responsible 25534(g) 17. Certification 25534(f) 18. Exemption Request? (Y/N) 25536(b)	
18. Exemption Request? (Y/N) 25536(b)19. Trade Secret Requested? 25538	Comments:
	Small (about 350 - gal.) Resel
III. UNDERGROUND TANKS (Title 23)	40 000 00 0 00 00 00 00 00 00 00 00 00 0
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2712 4. Release Report 2651 5. Closure Plans 2670	3 Meghalion
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Semi-annual gnawater One time sols 3) Daily Vodose	io, but is covered w/ tan
One firms sols	
4) Monthly Gndwater One time sols	Hole looks clean, no smell of diesel
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9) Other	extowation sile,
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14. As 8ulit	
Rev 6/88	
Contact:	, II, III
COHICLI.	

Inspector:

Signature:

Title:

Signature:

Form Approved OMB No. 2050-0039 (Expires 9-30-

Toxic Substances Control Division

ADIAN POLAICON

	UNDERGROUND STORAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINA	ATION SITE REPORT
	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO ORT DATE CASE #	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOV REPORTED THIS INFORMATION TO LOCAL OFFICIA THE HEALTH AND SAFTY COLD	PERIMENT EMPLOYEE AND THAT I HAVE LIS PURSUANT TO SECTION 25180 , OF
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TY TY	NUNICIPAL BUILDINGS I UNKNOWN	Building Services MANDO	er 145/2733462
RESPONSIBLE PARTY	ADDRESS 7101 EDGEWATER DRIVE	OARLAND	CA 94621
*	FACILITY NAME (IF APPLICABLE) FIREHOUSE #6	PREMEN AT STATION	A15)2733331
SITE LOCATION	47080 COLTON BLVD.	OAKLAND A	LAMEDA
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NTING	Alameda County Health Care Services	CONTACT PERSON	PHONE (4/5)271-4200
MPLEMENTING AGENCIES	REGIONAL BOARD		PHONE
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4/6/89

LOG NO.:

7173

DATE SAMPLED:

FIRST ABOUT ALL

3/23/89

DATE RECEIVED:

3/23/89

CUSTOMER:

R.S. Eagan and Company

REQUESTER:

Bob Eagan

PROJECT:

No. 9-154 Fire Station, No. 6, 7080 Colton Boulevard

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Dan Forah

Dan Farah, Ph.D. Supervisory Chemist

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(415) 783-6960

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Trace Analysis Laboratory, Inc 3423 Investment Boulevard, *8 * Hayward, California 94545

(415) 783-6960

DATE:

4/25/89

LOG NO.:

7280

DATE SAMPLED:

4/18/89

DATE RECEIVED:

4/18/89

CUSTOMER:

R.S. Eagan and Company

REQUESTER:

Bob Eagan

PROJECT:

No. 9-154, Fire Station No. 6, 7080 Colton Boulevard, Oakland, CA

Sample Type: Soil

No. 1

Method and
ConcenConstituent
Units
Units

Standard Method 503E,
Hydrocarbons:

0il and Grease

Mo. 1

ConcenLimit

10

Dan Farch

Dan Farah, Ph.D. Supervisory Chemist

Df:mlo

7280

CHAIN OF CUSTODY RECORD PROLHO. IPROJECT HAME Cotton Blod Dakiand NO. SAMPLERS: STATE OF Q# REMARKS COM TAINERS STATION LOCATION Town ounce ZBN X 1984 Reinstead by: (Squared Data / Young : Account by: Garages! Reinquiried by: (Symparial Dave / Toma أمسين الم Assessment by: Cherman Dru /Time | Regimed by: Gamesof I Reinquished by: (Symmetri Date / Turns - ! Record by: Garage Rainquains by: (Squares) Des /Taxe Antoniod for Laboratory by: Date / Turk **ARTHURES**

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LAB NUMBER: 17561 CLIENT: SUBSURFACE CONSULTANTS PROJECT #: 364.013/FIRE STATION 6 DATE RECEIVED: 05/09/69 DATE ANALYZED: 06/13/89 DATE REPORTED: 06/26/89 PAGE 2 OF 6

ANALYSIS: OIL AND GREASE METHOD: SMWW 503E

TYR ID	SAMPLE ID	result	UNITE	DETECTION LIMIT
17561-1 17561-2 17561-3 17561-4 17561-5	1 6 4' 1 8 10' 1 8 14' 1 8 20' NW 1	ND ND ND ND	mg/Kg mg/Kg mg/Kg mg/L	50 50 50 50

ND - NONE DETECTED.

QA/QC SUMMARY	·····································
RPD, ♣	2 :
RECOVERY, &	9 4
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LABORATORY NUMBER: 17561 CLIENT: SUBSURFACE CONSULTANTS JOB #: 354.013 LOCATION: FIRE STATION 6 DATE RECEIVED: 06/09/89 DATE ANALYZED: 06/19/89 DATE REPORTED: 06/26/89 PAGE 3 OF 6

Extractable Petroleum Hydrocarbons in Scils & Wastes EPA 8015 (Modified) Extraction Method: EPA 3550

LAB ID	CLIENT ID	Gasoline (mg/Kg)	KEROSINE (mg/Kg)	DIESEL	OTHER (mg/Kg)
17561-1	1 6 4'	ND(10)	ND(10)	ND(10)	MD(10)
17561-2	1 6 10'	ND(10)	ND(10)	ND(10)	ND(10)
17561-3	1 8 14'	ND(10)	ND(10)	ND(10)	ND(10)
17561-4	1 6 20'	ND(10)	ND(10)	ND(10)	ND(10)

ND = Not Detected; Limit of detection in parentheses.

QA/QC BUMMARY

Duplicate: Relative & Difference Spike: & Recovery <1 84 LABORATORY NUMBER: 17561 CLIENT: SUBSURFACE CONSULTANTS: PROJECT #: 364.013 LOCATION: FIRE STATION 6 DATE RECEIVED: 05/09/89 DATE ANALYSED: 06/16/89 DATE REPORTED: 06/26/89 PAGE 4 OF 6

Extractable Petroleum Hydrocarbons in Aqueous Solutions EPA 8015 (Modified) Extraction Method: EPA 3510

LAB ID	CLIENT ID	Gasoline (mg/L)	KEROSINE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)

17561-5	MW 1	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY RPD, \ Spike: \ Recovery

LABORATORY NUMBER: 17561 CLIENT: SUBSURFACE CONSULTANTS JOB NUMBER: 364.013 JOB LOCATION: FIRE STATION 6 DATE RECEIVED: 06/09/89 DATE ANALYSED: 06/12/89 DATE REPORTED: 06/26/89 PAGE 5 OF 6

Benzene, Toluene, Ethyl Benzene, Kylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)
17561-1	1 4 4' 1 4 10' 1 6 14' 1 6 20'	ND(5)	18	ND(5)	ND(5)
17561-2		ND(5)	220	ND(5)	ND(5)
17561-3		ND(5)	110	ND(5)	ND(5)
17561-4		ND(5)	1,000	ND(5)	ND(5)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

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4RPD 4RECOVERY	10	
	108	

LABORATORY NUMBER: 17561 CLIENT: SUBSURFACE CONSULTANTS JOB NUMBER: 364.013 JOB LOCATION: FIRE STATION 6 DATE RECEIVED: 06/09/89 DATE ANALYSED: 06/12/89 DATE REPORTED: 06/26/89 PAGE 6 OF 6

Benzene, Toluene, Ethyl Benzene, Kylenes by EPA 8020 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	Benzene	TOLUENE	TOTAL XYLENES	ethyl Beneene
		(ug/L)	(ug/L)	(ug/L)	(ug/L)
*******		,,,			1
17561-5	MW 1	ND(1)	ND(1)	ND(1)	ND(1)

ND = Not Detected; Limit of detection in parentheses.

QA/QC	SUMMARY
4RPD	10
4RECOVERY	106

LIQUID WASTE MANAGEMENT, INC.

STAR RTE. BOX 4, CORNER HWY. 33 AND HWY. 58 MCKITTRICK, CA 93251 (805) 762-7607 29418

Lease			. •		Scale Ticket #
Well # Ph #	6.0		٠.		02974
		ved Disposal Site McKITTRICK		Oper LIQUID WASTE MA	
A	. Liquid Waste Source: Company _ Address _	LIQUID WASTE	E DISCHARGE REPOF	RT Eland	- -
8	Description: Descr	soil 0	Brine Drillin	ng Mud 🔲 Othe	
	Address Truck #	96	ear Arts		en e
C	Delivery Date:Date: <u>4 - 28</u>	2-89	D. Invoice:	Hauler Waste Source	•
	Quantity 6.9 Cost Per Ton	C Tons	Wash Out:	@ • еа.	William.
	"I certify that the above waste as establishe	described waste was high by Order No. 72-256	auled to this approved dis of the California Regional	sposal site and was an a Water Quality Control I	acceptable Board."
,	Signature of Disp	osal Site Operator	HAULER	Signature of Lice	sed Hauler

