

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

September 22, 1999
StID # 4272

REMEDIAL ACTION COMPLETION CERTIFICATION

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

**RE: Fire Station No. 14, located at 3459 Champion Street,
Oakland, CA**

Dear Mr. Ojukwu:

This letter confirms the completion of site investigations and remedial action for the one 500-gallon gasoline fuel underground 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 tanks 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 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

ALAMEDA COUNTY
HEALTH CARE SERVICES

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DAVID J. KEARS, Agency Director



20871

ENVIRONMENTAL HEALTH SERVICES

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

October 05, 1999

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

STID: 4272

Re: Fire Station No. 14, located at 3459 Champion Street, Oakland, CA

Dear Mr. Ojukwu,

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]) of the California Health and Safety Code. The State Water Resources Control Board (SWRCB) has required since March 1, 1997 that this agency 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 this site.

If you have any questions, please contact the undersigned at (510) 567-6763.

Sincerely,

Juliet Shin, R.G.
Hazardous Materials Specialist

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

Cc: Dick Pantages, Chief

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: August 20, 1999

Agency name: Alameda County-HazMat
City/State/Zip: Alameda, CA 94502
Responsible staff person: Juliet Shin

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

II. CASE INFORMATION

Site facility name: Fire Station No. 14
Site facility address: 3459 Champion Street, Oakland, CA
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4272
URF filing date: 05/03/90 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
City of Oakland Contact: Odili Ojukwu	250 Frank H. Ogawa Plaza, Ste 5301 Oakland, CA 94612	(510) 238-7371

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	500	Gasoline	Removed	05/03/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 08/20/99
Monitoring Wells installed? None Number: Not Applicable
Proper screened interval? Not Applicable
Highest GW depth below ground surface: Unknown Lowest depth: Unknown
Flow direction: Unknown
Most sensitive current use: Not Applicable
Are drinking water wells affected? No. According to Alameda County's MapInfo Database, there are no drinking water wells within 1,000 feet of the site. Aquifer name: Not Applicable

ENVIRONMENTAL PROTECTION
99 SEP 17 PM 3:41

Is surface water affected? **No** Nearest affected SW name: **Not Applicable**

Off-site beneficial use impacts (addresses/locations):

Report(s) on file? **YES** Where is report(s) filed? **Alameda County** and **Oakland Fire Dept**
1131 Harbor Bay Pkwy and **505 14th St, Ste 510**
Alameda, CA 94502 and **Oakland, CA 94612**

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	One 500-gallon	H & H Ship Service Co. 220 China Basin Street San Francisco, CA 94107	05/03/90

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u> ¹	<u>After</u> ²	<u>Before</u>	<u>After</u>
TPH (Gas)	250	ND	Groundwater sample not collected.	
TPH (Diesel)	200			
Benzene	ND	ND		
Toluene	4.2	ND		
Ethylbenzene	3.4	ND		
Total Xylenes	22	ND		
MTBE	NA	ND		

NA = Not Analyzed

ND = Not Detected

1-Analytical results of composite sample 1C4, collected from the excavated stockpiled soil during the tank removal activities in 1990.

2-Analytical results of soil sample C-P-1.1', collected from 12- to 14-foot bgs within the former UST location in 1999.

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: **None**

List enforcement actions taken: **None**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Juliet Shin

Title: Haz Mat Specialist

Signature: 

Date: 09/02/99

Reviewed by

Name: Eva Chu

Title: Haz Mat Specialist

Signature: 

Date: 8/27/99

Name: Thomas Peacock

Title: Supervisor

Signature: 

Date: 9-1-99

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWQCB Staff Name: Chuck Headlee

Title: AEG

Signature: 

Date: 9/15/99

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is located in the East Bay Plains Area of Alameda County in Quaternary alluvium, and has been used to house a fire station (refer to Figure 1). One 500-gallon unleaded gasoline underground storage tank (UST) was formerly located at this site, and was apparently used to re-fuel the fire station vehicles.

On May 03, 1990, the PWA/Municipal Buildings Department removed the gas UST, and replaced it with an aboveground storage tank (refer to Figure 2). The UST was disposed of at H & H Ship Service Company in San Francisco, CA. Following excavation of the UST and overburden soil, two soil samples, 1C1 and 1C2, were collected from the bottom of the UST excavation at about 8-feet below ground surface (bgs), and one soil sample, 1C3, was collected from the bottom of the excavated piping trench at 2-feet bgs. Additionally, one composite soil sample, 1C4, was collected from the excavated stockpiled soil.

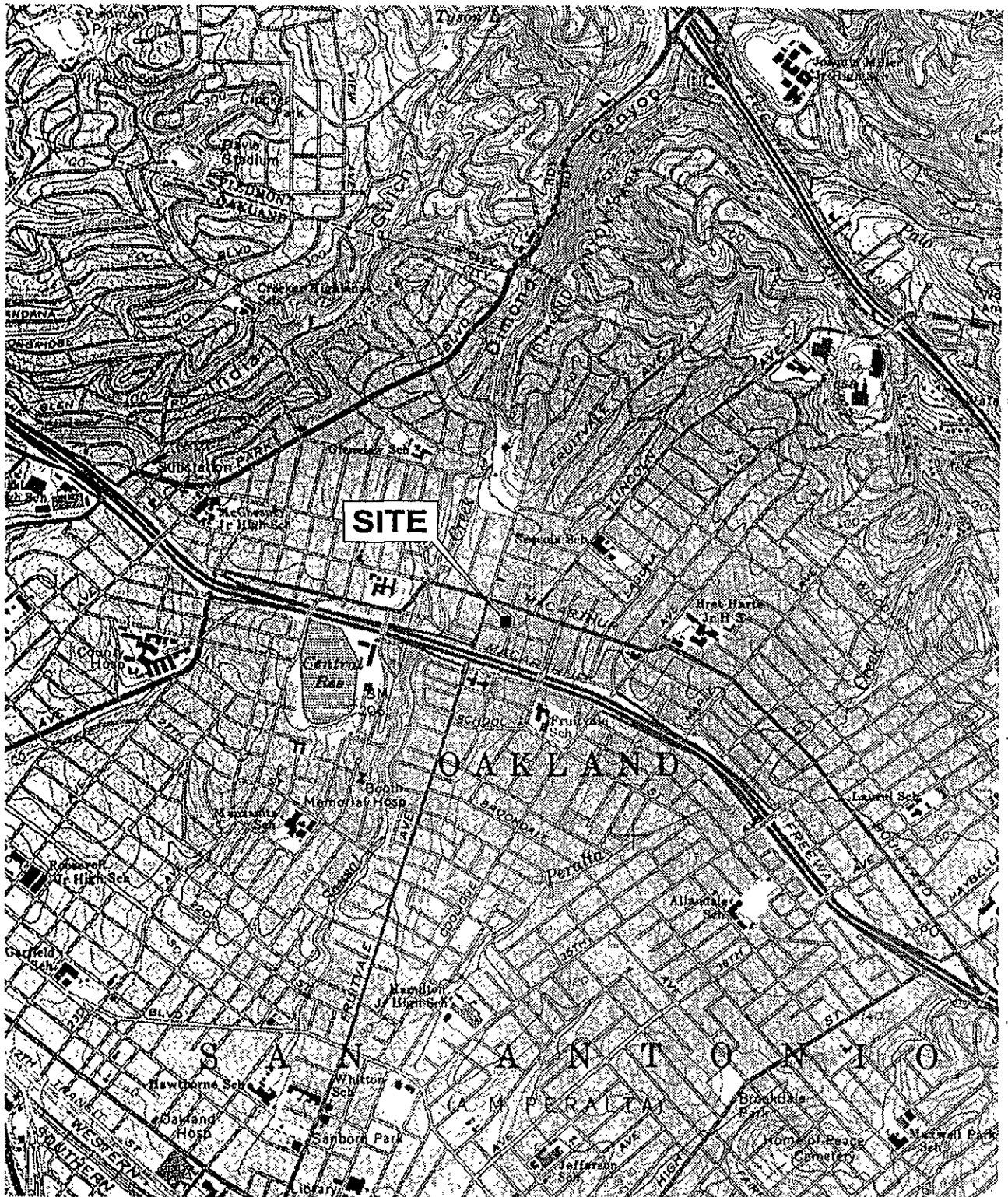
All four soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and total xylenes (BTEX), and Sample 1C4 was additionally analyzed for TPH as diesel (TPHd). Analysis of Sample 1C4 identified 250 parts per million (ppm) TPHg, 4.2ppm toluene, 3.4ppm ethylbenzene, 22ppm total xylenes, and 200ppm TPHd. Analysis of the other samples did not identify any contaminant concentrations above detection limits (refer to attached lab analyticals).

Approximately 11.4 tons of soil was excavated at the site and hauled off site for disposal.

On June 6, 1999, Subsurface Consultants, Inc. collected one additional soil sample, C-P-1.1', from the former tank pit location to confirm whether there were any residual concentrations of BTEX or Methyl Tertiary Butyl Ether (MTBE) in the soil. The boring was advanced to 14-feet below ground surface (bgs). The soil sample was collected from native soil between 12- and 14-feet bgs, and was comprised of dark brown lean clay with silt. No groundwater was encountered and no petroleum odors were noted during this sampling event. Sample C-P-1.1' was analyzed for MTBE and BTEX using EPA Method 8260. No contaminants were identified above detection limits (refer to attached lab analyticals).

This office is recommending this site for closure, based on the following rationale:

- Soil samples collected from below the former tank during the tank removal in 1990 did not identify any TPHg or BTEX. Although the composite sample collected from the excavated stockpiled soil identified low levels of TPHg, TPHd, and TEX, no benzene, which is a carcinogen and the primary constituent of concern in TPHg, was identified.
- One additional soil sample was recently collected from the former UST area from 12- to 14-feet bgs in native soil and analyzed for MTBE and BTEX. Analysis of this soil sample did not identify any contaminants.
- No groundwater was encountered down to 14-feet bgs.



Source: TOPOI © 1997 Wildflower Productions



VICINITY MAP

FIRE STATION No. 14
3459 CHAMPION STREET, OAKLAND, CA

PLATE

1



Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

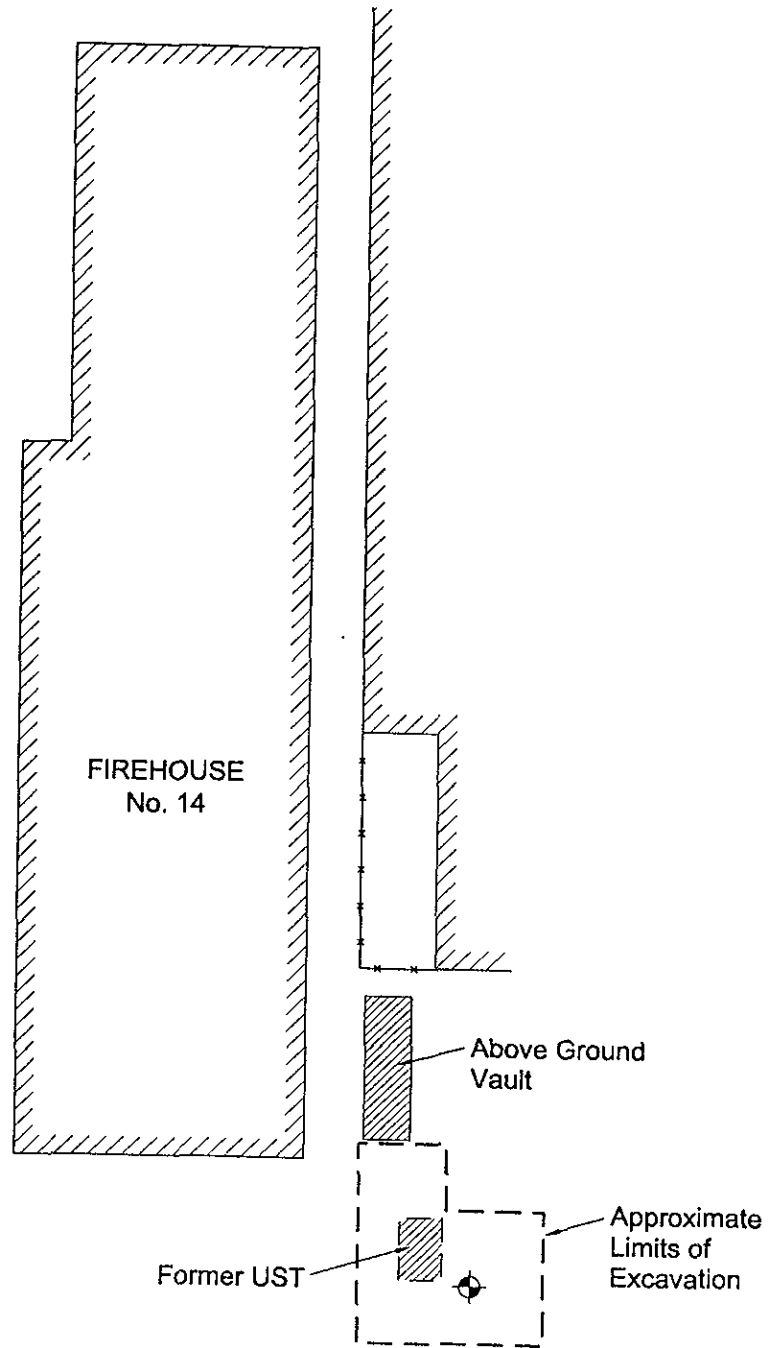
JOB NUMBER
272.037

DATE
12/98

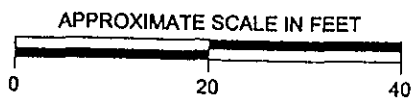
APPROVED
[Signature]

Explanation

⊕ Approximate Location of Proposed Boring



CHAMPION STREET



SITE PLAN

SCI Subsurface Consultants, Inc.
Geotechnical & Environmental Engineers

FIRE STATION No. 14
3459 CHAMPION STREET, OAKLAND, CA

JOB NUMBER
272.037

DATE
01/99

APPROVED

PLATE

2



Client: R.S. Eagan & Co.
Project Number: SFB-762-0087.72
Location: Fire Station #14

Western Region
4080-C Pike Ln., Concord, CA 94520
(415) 685-7852
In CA: (800) 544-3422
Outside CA: (800) 423-7143

Table 1
TEST RESULTS
BTEX/Total Petroleum Hydrocarbons as Gasoline
Modified EPA Method 8015
Matrix: Soil

Date Sampled: May 3, 1990
Date Analyzed: May 3, 1990
UNITS: mg/Kg (ppm)

Sample ID	Depth (ft)	Total Petroleum Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylenes
1C1	8	ND	ND	ND	ND	ND
1C2	8	<MDL	ND	ND	ND	ND
1C3	2	<MDL	ND	ND	ND	ND
1C4-Comp.	NA	250	ND	4.2	3.4	22

CA Certification Number: E628

MDL= Method detection limit; compound below this level would not be detected.

Method detection limit: TPH 10ppm; Benzene 1ppm; Toluene 1ppm; Ethylbenzene 1ppm; Xylenes 1ppm.

Results rounded to two significant figures.

↑ High detection limits

NA = Not Applicable

ND = Not Detected

Table 2
TEST RESULTS

Total Petroleum Hydrocarbons as Diesel
Modified EPA Method 8015 (GC/FID)
Matrix: Soil

Date Sampled: May 3, 1990
Date Analyzed: May 3, 1990

UNITS: mg/Kg (ppm)

Sample ID	Depth (ft)	Total Petroleum Hydrocarbons as Diesel	Remarks
1C4 Comp.	NA	200	

CA Certification number: E628

MDL = Method detection limit; compound below this level would not be detected.

Method detection limit: 10 mg/Kg (ppm)

Results rounded to two significant figures.

NA = Not Applicable

ND = Not Detected

Table 3
TEST RESULTS
BTEX
EPA Method 8020/5030
Matrix: Soil

Date Sampled: May 3, 1990
Date Analyzed: May 5,7 1990

UNITS: mg/Kg (ppm)

Sample ID	Depth (ft)	Benzene	Toluene	Ethylbenzene	Xylenes
1C1	8	ND	ND	ND	ND
1C2	8	ND	ND	ND	ND
1C3	2	ND	ND	ND	ND
1C4-Comp.	NA	ND	3.4	2.9	18

CA Certification Number: 194

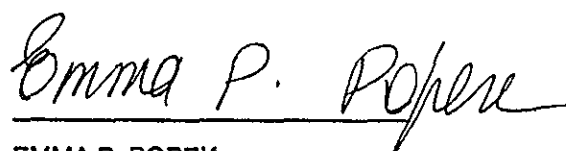
MDL= Method detection limit; compound below this level would not be detected.

Method detection limit: TPH 10ppm; Benzene 1ppm; Toluene 1ppm; Ethylbenzene 1ppm; Xylenes 1ppm.

Results rounded to two significant figures.

NA = Not Applicable

ND = Not Detected



EMMA P. POPEK,
Laboratory Director



4080-C Pike Lane
Concord, CA 94520
415-685-7852

800-544-3422 (In CA)
800-423-7143 (Outside CA)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jim Nicholas Phone #: _____

Address: RS. Eagan & Co. FAX #: _____

Project Number: Firehouse #14 Project Name: _____

Project Location: 3459 Champion St Sampler Signature: James C. Nichols

ANALYSIS REQUEST

OTHER

SPECIAL HANDLING

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix				Method Preserved				Sampling		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(74207421/239.2)	ORGANIC LEAD	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBAL/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	ICE	NONE	OTHER																								DATE	TIME	
1C1																																							
1C2																																							
1C3																																							
1C4																																							

Relinquished by: <u>James C. Nichols</u>	Date Time <u>5/3/90 1516</u>	Received by: <u>D. L. W. H.</u>	Remarks: <u>SAMPLE PREP BY PURGEE TRAP</u> <u>ANALYSIS BY OHS 8059</u> <u>8020</u>
Relinquished by:	Date Time:	Received by:	
Relinquished by:	Date Time:	Received by Laboratory:	



Aromatic Volatile Organics
EPA 8020 Analyte List

Client: Subsurface Consultants
Project#: 272.037.21.3
Location: City Of Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

Field ID: C-P-1.1
Lab ID: 139777-001
Matrix: Soil
Batch#: 48500
Units: ug/Kg
Diln Fac: 0.9434

Sampled: 06/07/99
Received: 06/07/99
Extracted: 06/08/99
Analyzed: 06/08/99

Analyte	Result	Reporting Limit
MTBE	ND	19
Benzene	ND	4.7
Toluene	ND	4.7
Chlorobenzene	ND	4.7
Ethylbenzene	ND	4.7
m, p-Xylenes	ND	4.7
o-Xylene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	99	80-129
Toluene-d8	98	88-111
Bromofluorobenzene	101	76-128

