SITE CHARACTERIZATION REPORT BUILDING 12 U.S. COAST GUARD COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

November 12, 1997

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank removal operations at Building 12 on Coast Guard Island in Alameda, CA. The project included the removal of one one hundred gallon gasoline storage tank and related piping.

II. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank was located in the front of Building 12, and formerly stored gasoline, which was probably used to power an emergency generator. The tank was immediately adjacent to the building in a landscaped area beneath some shrubs.

III. SOIL SAMPLING AND ANALYSIS

On October 30, 1997, following the removal of the tank, at approximately 10:45 A.M., one soil sample was collected from the base of the tank excavation, and one sample from the soil stockpile as shown in Figure 1. The sample from the excavation (Bldg. 12 Pit) was collected from 4' below ground surface in the center of the pit by removing approximately 6" of soil and driving a 2"x6" brass tube into the native soil. A single sample (Bldg. 12 Pile) was collected from the stockpile, also in a 2"x6" brass tube. The samples were preserved on ice at 4°C and transported under chain of custody to NEI/GTEL for analysis. NEI/GTEL is state certified under #1845 and is located at 4080-C Pike Lane in Concord, CA 94520. The following table summarizes the conditions under which the samples were taken:

Table 1

Sample ID#	Time	Temperature	Weather	Tide
Bldg. 12 Pit	10:45	72°	Clear, Sunny	5.0
Bldg. 12 Pile	11:00	72°	Clear, Sunny	5.0

Results of the soil sampling indicate that the subsurface soil was impacted slightly by very low concentrations of petroleum hydrocarbons. The sample collected from the tank excavation contained 880 parts per billion(ppb) of TPHgas, 3.7 ppb ethylbenzene, 24 ppb xylene, and 22 parts per million of lead. The sample collected from the soil stockpile contained 590 ppb of TPHgas, 2.8 ppb ethylbenzene, 18 ppb xylene and 25 parts per million of lead. The analytical results are summarized in Table 2 below, and the full laboratory reports are included as an attachment.

Table 2

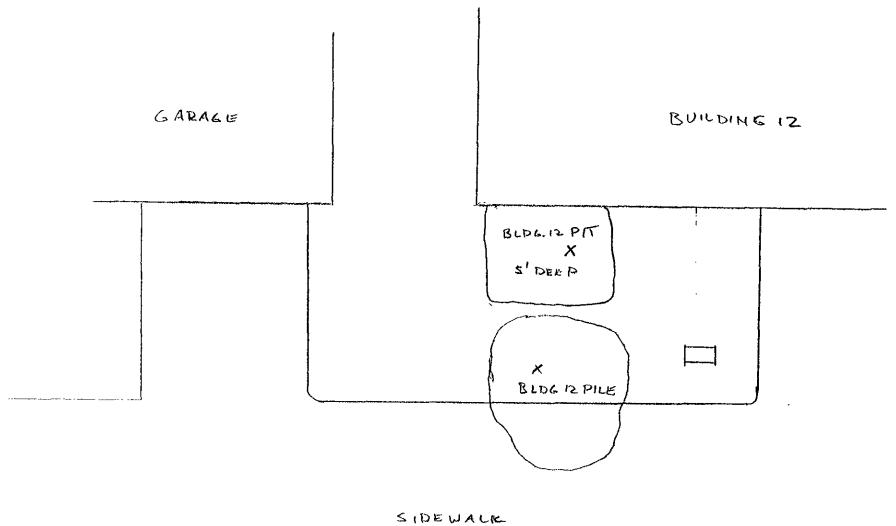
Sample ID	TPHgas	TPHdieset	Benzene	Toluene	Ethylbenzene	Xylene	Lead
Bldg. 12 Pit	880	<10 ppm	<1.0	<2.0	3.7	24	22 ppm
Bldg. 12 Pile	590	<10 ppm	<1.0	<2.0	2.8	18	25 ppm

All results reported in parts per billion(ug/kg), unless otherwise indicated.

IV. RECOMMENDATIONS

Based on the results of the soil sampling and analysis, there are no significant concentrations of petroleum hydrocarbons in the soil, and the site should be eligible for regulatory closure.

US.C.G. - ISC ALAMEDA BLDG, IZ 100 GALLON TANK UST REMOVAL



MCCULLOUGH

FIGURE



Midwest Region

4211 May Avenue Wichita, KS 67209 (316) 945-2624 (800) 633-7936 (316) 945-0506 (FAX)

November 13, 1997

Scott Vickers RAH Environmental Inc. 3310 Swetzer Road Loomis, CA 95650

RE: NEI/GTEL Client ID:

lessa Number

Login Number:

RAH01RAH01 W7100447

Project ID (number):

Project ID (name):

USCG/ISC/ALAMEDA/AFB

Dear Scott Vickers:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 10/31/97 under Chain-of-Custody Number(s) 36375.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

ect Coordinator

Sincerely.

NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks

Laboratory Director

ANALYTICAL RESULTS Volatile Organics

NEI/GTEL Client ID: RAHO1RAH01

Login Number: W7100447

Project ID (number): RAH01RAH01

Project ID (name): USCG/ISC/ALAMEDA/AFB

Method: EPA 8020A

Matrix: Low Soil

NEI/GTEL Sample Number	W7100447-01	W7100447-02	• •	••
Client ID	BLDG 12-PIT	BLDG 12-PILE		••
Date Sampled	10/30/97	10/30/97		• •
Date Analyzed	11/06/97	11/07/97	••	
Dilution Factor	1.00	1.00		

Analyte	Reporting Limit	Units _	Concentration:Dry Weight
Benzene	1.0	tig/kg	< 1.0 < 1.0 · · · · · · · · · · · · · · · · · · ·
Toluene	2.0	ug/kg	< 2.0 < 2.0
Ethy I benzene	2.0	ug/kg	10万 (1 3.7 1万 (17.11 2.8) (19.11 (17.41 (17.11 (17
Xylenes (total)	4.0	ug/kg	24. 18
TPH as Gasoline	100	∴ tig/kg	590 The Second Control of Seco
Percent Solids		%	86.6 87.5

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update II.

ANALYTICAL RESULTS Metals

NEI/GTEL Client ID: RAH01RAH01

Login Number: W7100447

Project ID (number): RAH01RAH01 Method: EPA 6010A

Project ID (name): USCG/ISC/ALAMEDA/AFB Matrix: Solids

NEI/GTEL Sample Number	W7100447-01	W7100447-02		••
Client ID	BLDG 12-PIT	BLDG 12-PILE		• •
Date Sampled	10/30/97	10/30/97		
Date Analyzed	11/04/97	11/04/97	• •	
Dilution Factor	1.00	1.00		

Reporting

	kepoi cing			
Analyte	Limit <u>Units</u>	Concentration:Wet	Weight	
Lead	7.0 mg/kg	22. 25.		
Percent Solids	%	86.6 87.5		

Nates:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

FPA 6010A:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846. Third Edition including Update 2.

W7100447-01:

The maximum relative percent difference was exceeded for LEAD in the matrix spike and the matrix spike duplicate due to sample heterogeneity.

ANALYTICAL RESULTS Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: RAH01RAH01

Login Number:

W7100447

Project ID (number): RAH01RAH01

Project ID (name): USCG/ISC/ALAMEDA/AFB

Method: GC

Matrix: Solids

NEI/GTEL Sample Number	W7100447-01	W7100447-02		
Client ID	BLDG 12-PIT	BLDG 12-PILE		
Date Sampled	10/30/97	10/30/97	••	••
Date Prepared	11/04/97	11/04/97		
Date Analyzed	11/05/97	11/05/97	••	
Dilution Factor	1.00	1.00	••	

Reporting	Rei	por	ti	ng
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Analyte	Limit	Units	C	oncentration:Dry We	<u>eigh</u> t	
TPH as Diesel	10.	mg/kg	< 10.	< 10.	~ - , ."	
Percent Solids	·	%	86.6	87.5		

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution ${\bf r}$

GC:

Extraction by EPA Method 3550 (sonication). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update 1. This method is equivalent to the California LUFT manual DHS method for diesel fuel.

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SITE CHARACTERIZATION REPORT BUILDING 12 U.S. COAST GUARD COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

November 12, 1997

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank removal operations at Building 12 on Coast Guard Island in Alameda, CA. The project included the removal of one one hundred gallon gasoline storage tank and related piping.

II. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank was located in the front of Building 12, and formerly stored gasoline, which was probably used to power an emergency generator. The tank was immediately adjacent to the building in a landscaped area beneath some shrubs.

III. SOIL SAMPLING AND ANALYSIS

On October 30, 1997, following the removal of the tank, at approximately 10:45 A.M., one soil sample was collected from the base of the tank excavation, and one sample from the soil stockpile as shown in Figure 1. The sample from the excavation (Bldg. 12 Pit) was collected from 4' below ground surface in the center of the pit by removing approximately 6" of soil and driving a 2"x6" brass tube into the native soil. A single sample (Bldg. 12 Pile) was collected from the stockpile, also in a 2"x6" brass tube. The samples were preserved on ice at 4°C and transported under chain of custody to NEI/GTEL for analysis. NEI/GTEL is state certified under #1845 and is located at 4080-C Pike Lane in Concord, CA 94520. The following table summarizes the conditions under which the samples were taken:

Table 1

Sample ID#	Time	Temperature	Weather	Tide
Bldg. 12 Pit	10:45	72°	Clear, Sunny	5.0
Bldg. 12 Pile	11:00	72°	Clear, Sunny	5.0

Results of the soil sampling indicate that the subsurface soil was impacted slightly by very low concentrations of petroleum hydrocarbons. The sample collected from the tank excavation contained 880 parts per billion(ppb) of TPHgas, 3.7 ppb ethylbenzene, 24 ppb xylene, and 22 parts per million of lead. The sample collected from the soil stockpile contained 590 ppb of TPHgas, 2.8 ppb ethylbenzene, 18 ppb xylene and 25 parts per million of lead. The analytical results are summarized in Table 2 below, and the full laboratory reports are included as an attachment.

Table 2

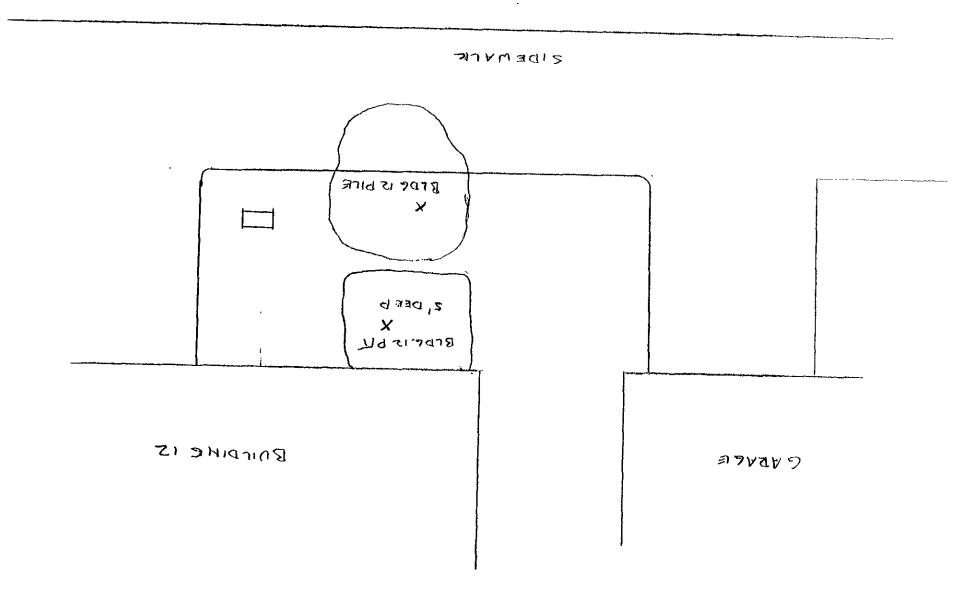
Sample ID	TPHgas	TPHdiesel	Benzene	Toluene	Ethylbenzene	Xylene	Lead
Bldg. 12 Pit	880	<10 ppm	<1.0	<2.0	3.7	24	22 ppm
Bldg. 12 Pile	590	<10 ppm	<1.0	<2.0	2.8	18	25 ppm

All results reported in parts per billion(ug/kg), unless otherwise indicated.

IV. RECOMMENDATIONS

Based on the results of the soil sampling and analysis, there are no significant concentrations of petroleum hydrocarbons in the soil, and the site should be eligible for regulatory closure.

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US.CG. ISCALAMEDA BLDG, IZ IGOGALLON TANK UST REMOUAL



Midwest Region

4211 May Avenue Wichita, KS 67209 (316) 945-2624 (800) 633-7936 (316) 945-0506 (FAX)

November 13, 1997

Scott Vickers RAH Environmental Inc. 3310 Swetzer Road Loomis, CA 95650

RE: NEI/GTEL Client ID:

Login Number: Project ID (number):

Project ID (name):

RAH01RAH01

W7100447

USCG/ISC/ALAMEDA/AFB

Dear Scott Vickers:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 10/31/97 under Chain-of-Custody Number(s) 36375.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

ect Goodinator for

Sincerely.

NEI/GTEL Environmental Laboratories, Inc.

terry R. Loucks Laboratory Director

ANALYTICAL RESULTS Volatile Organics

NEI/GTEL Client ID: RAHO1RAH01

Login Number: W7100447

Project ID (number): RAH01RAH01

Project ID (name): USCG/ISC/ALAMEDA/AFB

Method: EPA 8020A

Matrix: Low Soil

NEI/GTEL Sample Number	W7100447-01	W7100447-02		
Client ID	BLDG 12-PIT	BLDG 12-PILE	- -	• •
Date Sampled	10/30/97	10/30/97	••	**
Date Analyzed	11/06/97	11/07/97	• •	• •
Dilution Factor	1.00	_1.00		••

	Reporting			
Analyte	<u>Limit</u>	Units	Concentration:Dry Weight	
Benzene	1.0	ug/kg	1. < 1.0 () () () () () () () () () (mi e gjalak kaj o g e i jakit og
Toluene	2.0	ug/kg	< 2.0 < 2.0	
Ethylbenzene	2.0	_ug/kg:	1. 3.7. 3.3. 2.8	weeks and the second
Xylenes (total)	4.0	ug/kg	24. 18.	
TPH as Gasoline	100	ug/kg	880 2 July 590 1 3 July 5	Amilia (La Caracteria)
Percent Solids		<u>%</u>	86.6 87.5	

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS Metals

NEI/GTEL Client ID: RAH01RAH01

Login Number:

W7100447

Project ID (number): RAH01RAH01

Project ID (name): USCG/ISC/ALAMEDA/AFB

Method: EPA 6010A

Matrix: Solids

NEI/GTEL Sample Number	W7100447-01	W7100447-02	* *	••
Client ID	BLDG 12-PIT	BLDG 12-PILE	• •	••
Date Sampled	10/30/ 9 7	10/30/97		••
Date Analyzed	11/04/97	11/04/97	••	• •
Dilution Factor	1.00_	1.00		

Reporting

	1,000.01.03					
Analyte	Limit	Units	Co	<u>ncentration:Wet W</u>	leight	
Lead	7.0	mg/kg	22.	25.		
Percent Solids		- %	86.6	87.5		

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution

EPA 6010A:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846. Third Edition including Update 2.

W7100447-01:

The maximum relative percent difference was exceeded for LEAD in the matrix spike and the matrix spike duplicate due to sample heterogeneity.

NEI/GTEL Wichita, KS W7100447

Page: 1

ANALYTICAL RESULTS Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: RAHO1RAH01

Login Number:

W7100447

Project ID (number): RAH01RAH01

Project ID (name): USCG/ISC/ALAMEDA/AFB

Method: GC

ids

 NEI/GTEL Sample Number	W7100447-01	W7100447-02		
Client ID	BLDG 12-PIT	BLDG 12-PILE		••
Date Sampled	10/30/97	10/30/97	••	
Date Prepared	11/04/97	11/04/97		
Date Analyzed	11/05/97	11/05/97		• •
Dilution Factor	1.00	1.00	••	

	Reporting					
Analyte	Limit	Units		Concentration:Dry 1	weight	
TPH as Diesel	10.	ng/kg	< 10.	< 10.	~-	
Percent Solids	<u></u>	%	86.6	87.5		

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution

GC:

Extraction by EPA Method 3550 (sonication). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update 1. This method is equivalent to the California LUFT manual DHS method for diesel fuel.

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l attest that the pro procedures were u	Scatt Victors (NAME) 1 attest that the proper field sampling procedures were used during the collection of these samples. (NAME) Sampler Name (Print): Scatt Victors										-	with MTBE	BTEX/Gas Hydrocarbons PID/FIDX with MTBE	Gas 🗆 Die	SIMDIS)	Oil and Grease 413.1 🗆 413.2 🗆 SM-503 🗆	503	by 504 □	2.2	0	0.0	EPA 608 🗆 8080 🗔 PCB only 🗆	EPA 624/PPL ☐ 8240/TAL ☐ NBS (+15)	EPA 625/PPL ☐ 8270/TAL ☐ NBS (+25) ☐	i	sticides 1 h	W-mes [ICLP Metals _ VOA _ Sermi-VOA	Polluta	STLC	7420		Flash Point C Reactivity	0	777									
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