

# ***Entech Analytical Labs, Inc.***

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**3334 Victor Court , Santa Clara, CA 95054**

**Phone: (408) 588-0200**

**Fax: (408) 588-0201**

**Joshua Alexander  
Golden Gate Tank Removal  
3730 Mission Street  
San Francisco, CA 94110**

**Lab Certificate Number: 57738**

**Issued: 10/22/2007**

**Project Number: 8938  
Project Location: 757 Santa Clara Ave. Alameda**

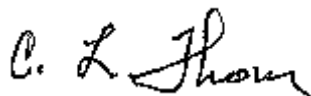
## **Certificate of Analysis - Final Report**

On October 17, 2007, samples were received under chain of custody for analysis.  
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Solid	VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B Composite Metals by ICP: EPA 3050B / EPA 6010B TPH-Extractable: EPA 3545A / EPA 8015B(M)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

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Golden Gate Tank Removal  
3730 Mission Street  
San Francisco, CA 94110  
Attn: Joshua Alexander

Project Number: 8938

Project Location: 757 Santa Clara Ave. Alameda

## Certificate of Analysis - Data Report

Samples Received: 10/17/2007

Sample Collected by: client

Lab #: 57738-005    Sample ID: 8938-SP-(A-D)Composite    Matrix: Solid    Sample Date: 10/16/2007 10:05 AM

### VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
Toluene	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
Ethyl Benzene	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
Xylenes, Total	ND		50	500	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
Methyl-t-butyl Ether	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
tert-Butyl Ethyl Ether	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
tert-Butanol (TBA)	ND		50	2000	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
Diisopropyl Ether	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
tert-Amyl Methyl Ether	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
1,2-Dichloroethane	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P
1,2-Dibromoethane (EDB)	ND		50	250	µg/Kg	10/17/2007	PM071017P	10/17/2007	PM071017P

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.2	60 - 130
Dibromofluoromethane	93.8	60 - 130
Toluene-d8	99.6	60 - 130

Analyzed by: EricKum

Reviewed by: MaiChiTu

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Lead	12		1.0	1.0	mg/Kg	10/18/2007	SM071018	10/18/2007	SM071018

Analyzed by: CTran

Reviewed by: HDINH

### TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel Atypical pattern (C12-C34).	160		2.0	10	mg/Kg	10/17/2007	SD071017A	10/19/2007	SD071017A

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	97.8	50 - 150

Analyzed by: JHsiang

Reviewed by: mtran

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Golden Gate Tank Removal  
3730 Mission Street  
San Francisco, CA 94110  
Attn: Joshua Alexander

Project Number: 8938

Project Location: 757 Santa Clara Ave. Alameda

## Certificate of Analysis - Data Report

Samples Received: 10/17/2007

Sample Collected by: client

Lab #: 57738-006

Sample ID: 8938-C-11

Matrix: Solid

Sample Date: 10/16/2007 10:52 AM

### VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
Toluene	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
Ethyl Benzene	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
Xylenes, Total	ND		5.0	50	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
Methyl-t-butyl Ether	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
tert-Butyl Ethyl Ether	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
tert-Butanol (TBA)	ND		5.0	200	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
Diisopropyl Ether	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
tert-Amyl Methyl Ether	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
1,2-Dichloroethane	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E
1,2-Dibromoethane (EDB)	ND		5.0	25	µg/Kg	N/A	N/A	10/17/2007	SM3E071017E

Sample was diluted due to high concentration of hydrocarbons.

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.2	60 - 130
Dibromofluoromethane	97.1	60 - 130
Toluene-d8	102	60 - 130

Analyzed by: EricKum

Reviewed by: MaiChiTu

### TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	170		2.0	10	mg/Kg	10/17/2007	SD071017A	10/19/2007	SD071017A

Atypical pattern (C10-C34).

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	85.4	50 - 150

Analyzed by: JHsiang

Reviewed by: mtran

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC/Prep Batch ID: PM071017P

Validated by: MaiChiTu - 10/18/07

QC/Prep Date: 10/17/2007

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	50	250	µg/Kg
1,2-Dichloroethane	ND	50	250	µg/Kg
Benzene	ND	50	250	µg/Kg
Diisopropyl Ether	ND	50	250	µg/Kg
Ethyl Benzene	ND	50	250	µg/Kg
Methyl-t-butyl Ether	ND	50	250	µg/Kg
tert-Amyl Methyl Ether	ND	50	250	µg/Kg
tert-Butanol (TBA)	ND	50	2000	µg/Kg
tert-Butyl Ethyl Ether	ND	50	250	µg/Kg
Toluene	ND	50	250	µg/Kg
Xylenes, Total	ND	50	500	µg/Kg

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	92.1	60 - 130
Dibromofluoromethane	91.0	60 - 130
Toluene-d8	100	60 - 130

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: PM071017P

Reviewed by: MaiChiTu - 10/18/07

QC/Prep Date: 10/17/2007

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	2000	2590	µg/Kg	130	65 - 135
Benzene	<5.0	2000	2610	µg/Kg	130	65 - 135
Chlorobenzene	0.0	2000	2400	µg/Kg	120	65 - 135
Methyl-t-butyl Ether	<5.0	2000	2480	µg/Kg	124	65 - 135
Toluene	<5.0	2000	2440	µg/Kg	122	65 - 135
Trichloroethene	0.0	2000	2500	µg/Kg	125	65 - 135

## Surrogate

	% Recovery	Control Limits
4-Bromofluorobenzene	92.4	60 - 130
Dibromofluoromethane	99.5	60 - 130
Toluene-d8	96.4	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	2000	2540	µg/Kg	127	1.9	30.0	65 - 135
Benzene	<5.0	2000	2520	µg/Kg	126	3.5	30.0	65 - 135
Chlorobenzene	0.0	2000	2440	µg/Kg	122	1.7	30.0	65 - 135
Methyl-t-butyl Ether	<5.0	2000	2430	µg/Kg	122	2.0	30.0	65 - 135
Toluene	<5.0	2000	2490	µg/Kg	124	2.0	30.0	65 - 135
Trichloroethene	0.0	2000	2410	µg/Kg	120	3.7	30.0	65 - 135

## Surrogate

	% Recovery	Control Limits
4-Bromofluorobenzene	95.5	60 - 130
Dibromofluoromethane	98.3	60 - 130
Toluene-d8	100.0	60 - 130

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E071017E

Validated by: MaiChiTu - 10/18/07

QC Batch Analysis Date: 10/17/2007

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	5.0	µg/Kg
1,2-Dichloroethane	ND	1	5.0	µg/Kg
Benzene	ND	1	5.0	µg/Kg
Diisopropyl Ether	ND	1	5.0	µg/Kg
Ethyl Benzene	ND	1	5.0	µg/Kg
Methyl-t-butyl Ether	ND	1	5.0	µg/Kg
tert-Amyl Methyl Ether	ND	1	5.0	µg/Kg
tert-Butanol (TBA)	ND	1	40	µg/Kg
tert-Butyl Ethyl Ether	ND	1	5.0	µg/Kg
Toluene	ND	1	5.0	µg/Kg
Xylenes, Total	ND	1	10	µg/Kg

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	89.3	60 - 130
Dibromofluoromethane	99.5	60 - 130
Toluene-d8	100	60 - 130

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LCS / LCSD - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3E071017E

Reviewed by: MaiChiTu - 10/18/07

QC Batch ID Analysis Date: 10/17/2007

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	40	39.1	µg/Kg	97.8	65 - 135
Benzene	<5.0	40	41.2	µg/Kg	103	65 - 135
Chlorobenzene	0.0	40	41.9	µg/Kg	105	65 - 135
Methyl-t-butyl Ether	<5.0	40	44.2	µg/Kg	110	65 - 135
Toluene	<5.0	40	43.1	µg/Kg	108	65 - 135
Trichloroethene	0.0	40	41.7	µg/Kg	104	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.7	60 - 130
Dibromofluoromethane	99.3	60 - 130
Toluene-d8	102.0	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	40	48.4	µg/Kg	121	21	30.0	65 - 135
Benzene	<5.0	40	49.3	µg/Kg	123	18	30.0	65 - 135
Chlorobenzene	0.0	40	45.1	µg/Kg	113	7.4	30.0	65 - 135
Methyl-t-butyl Ether	<5.0	40	48.2	µg/Kg	120	8.7	30.0	65 - 135
Toluene	<5.0	40	46.9	µg/Kg	117	8.4	30.0	65 - 135
Trichloroethene	0.0	40	47.1	µg/Kg	118	12	30.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	94.8	60 - 130
Dibromofluoromethane	98.2	60 - 130
Toluene-d8	98.2	60 - 130

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC/Prep Batch ID: SD071017A

Validated by: mtran - 10/19/07

QC/Prep Date: 10/17/2007

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	5.0	mg/Kg
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>		
n-Hexacosane	97.8	50 - 150		

LCS / LCSD - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC Batch ID: SD071017A

Reviewed by: mtran - 10/19/07

QC/Prep Date: 10/17/2007

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<5.0	100	92.7	mg/Kg	92.7	45 - 140
TPH as Motor Oil	<20	100	89.0	mg/Kg	89.0	45 - 140
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>				
n-Hexacosane	96.4	50 - 150				

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<5.0	100	95.1	mg/Kg	95.1	2.6	30.0	45 - 140
TPH as Motor Oil	<20	100	87.0	mg/Kg	87.0	2.3	30.0	45 - 140
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>						
n-Hexacosane	98.0	50 - 150						



# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC Batch ID: SM071018

Reviewed by: HDINH - 10/19/07

QC/Prep Date: 10/18/2007

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<1.0	50	48.0	mg/Kg	95.9	70 - 130
Arsenic	<1.0	50	47.3	mg/Kg	94.6	70 - 130
Barium	<1.0	50	48.7	mg/Kg	97.4	70 - 130
Beryllium	<1.0	50	46.2	mg/Kg	92.3	70 - 130
Cadmium	<1.0	50	46.8	mg/Kg	93.6	70 - 130
Chromium	<1.0	50	48.2	mg/Kg	96.3	70 - 130
Cobalt	<1.0	50	49.0	mg/Kg	98.0	70 - 130
Copper	<1.0	50	48.9	mg/Kg	97.9	70 - 130
Lead	<1.0	50	49.7	mg/Kg	99.4	70 - 130
Molybdenum	<1.0	50	49.7	mg/Kg	99.4	70 - 130
Nickel	<1.0	50	48.3	mg/Kg	96.6	70 - 130
Selenium	<2.0	50	44.1	mg/Kg	88.1	70 - 130
Silver	<1.0	50	48.8	mg/Kg	97.6	70 - 130
Thallium	<2.0	50	45.6	mg/Kg	91.2	70 - 130
Vanadium	<1.0	50	49.3	mg/Kg	98.7	70 - 130
Zinc	<2.0	50	46.4	mg/Kg	92.9	70 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<1.0	50	47.4	mg/Kg	94.8	1.2	30.0	70 - 130
Arsenic	<1.0	50	46.4	mg/Kg	92.8	1.9	30.0	70 - 130
Barium	<1.0	50	49.5	mg/Kg	99.0	1.6	30.0	70 - 130
Beryllium	<1.0	50	45.7	mg/Kg	91.5	0.96	30.0	70 - 130
Cadmium	<1.0	50	46.5	mg/Kg	93.0	0.63	30.0	70 - 130
Chromium	<1.0	50	47.6	mg/Kg	95.2	1.2	30.0	70 - 130
Cobalt	<1.0	50	48.5	mg/Kg	96.9	1.2	30.0	70 - 130
Copper	<1.0	50	48.5	mg/Kg	97.1	0.80	30.0	70 - 130
Lead	<1.0	50	48.8	mg/Kg	97.6	1.8	30.0	70 - 130
Molybdenum	<1.0	50	49.0	mg/Kg	98.0	1.4	30.0	70 - 130
Nickel	<1.0	50	47.9	mg/Kg	95.8	0.91	30.0	70 - 130
Selenium	<2.0	50	43.9	mg/Kg	87.8	0.40	30.0	70 - 130
Silver	<1.0	50	48.7	mg/Kg	97.3	0.31	30.0	70 - 130
Thallium	<2.0	50	45.0	mg/Kg	90.1	1.2	30.0	70 - 130
Vanadium	<1.0	50	48.8	mg/Kg	97.7	1.0	30.0	70 - 130
Zinc	<2.0	50	46.1	mg/Kg	92.2	0.76	30.0	70 - 130

# Entech Analytical Labs, Inc. Chain of Custody / Analysis Request

3334 Victor Court  
 Santa Clara, CA 95054 (408) 588-0200  
 (408) 588-0201 - Fax

ELAP No. 2346

Attention to: **757 Santa Clara Ave** Phone No.: **415-512-1555** Purchase Order No.: **8938** Invoice to: (if Different) **Gina Wee - Porter** Phone: **415-512-1555**

Company Name: **ECTR, INC** Fax No.: **415-512-0964** Project No. / Name: **8938 - 757 Santa Clara Ave (Alameda)** Company: **Golden Gate Tank Removal**

Mailing Address: **3730 Mission Street** Email Address: **jalexander@entech.com** Billing Address: (if Different) **3730 Mission Street**

City: **San Francisco** State: **CA** Zip Code: **94110** Project Location: **757 Santa Clara Ave** City: **San Francisco** State: **CA** Zip: **94110**

Entech Order ID: \_\_\_\_\_ Turn Around Time:  Same Day  1 Day  2 Day  3 Day  4 Day  5 Day  10 Day

EDF  Global ID: **57738** Sample Information: **505N**

Client ID	Field Point	Date	Time	Entech Lab. No.	Matrix	No. of Containers	Applicable	Circle	Remarks
8938-49(A-1)		10/16	10:05	5	5	4	<input checked="" type="checkbox"/> EPA 8260B Full List <input checked="" type="checkbox"/> EPA 8270: Base/Neutral/Acid Organics Full List <input checked="" type="checkbox"/> EPA 8270 Full List <input checked="" type="checkbox"/> Pesticides-8081 <input checked="" type="checkbox"/> PCBs - 8082 <input checked="" type="checkbox"/> TPH Gas, BTEX, MtBE by EPA 8015/8021B <input checked="" type="checkbox"/> Metals - Circle Below <input checked="" type="checkbox"/> (Total)	<input type="checkbox"/> Circle <input type="checkbox"/> Applicable	HF DUST VENT Composite
8938-C-11		10/16	10:52	5	1	1	<input checked="" type="checkbox"/> EPA 8260B Full List <input checked="" type="checkbox"/> EPA 8270: Base/Neutral/Acid Organics Full List <input checked="" type="checkbox"/> EPA 8270 Full List <input checked="" type="checkbox"/> Pesticides-8081 <input checked="" type="checkbox"/> PCBs - 8082 <input checked="" type="checkbox"/> TPH Gas, BTEX, MtBE by EPA 8015/8021B <input checked="" type="checkbox"/> Metals - Circle Below <input checked="" type="checkbox"/> (Total)	<input type="checkbox"/> Circle <input type="checkbox"/> Applicable	

Received by:	Date:	Time:	Lab Use:
<i>[Signature]</i>	10/19/07	08:45	
<i>[Signature]</i>	10/19/07	13:35	

Reinquired by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Reinquired by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Reinquired by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use: \_\_\_\_\_

Metals:  Al, As, Sb, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Tl, Sn, Ti, Zn, V  
 Plating  LUFT-5  RCRA-8  PPM-13  CAM-17

Temperature: **12.2 °C**

Samples: Iced  N Appropriate Containers/Preservatives:  N  
 Labels match CoC?  N Headspace?  N/A Shipment Method: **Entech Courier**  
 Custody Seals?  N/A Separate Receipt Log  N/A