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By dehloptoxic at 1:13 pm, Feb 07, 2007

**Transportation Terminals Company**

**PO Box 882682**

**San Francisco, CA 94188-2682**

**Date:** 12/1/2006  
**From:** Bob Lawlor  
**To:** Barney Chan, Haz. Materials Specialist, Alameda County Env.  
**Subject:** 15651 Worthley Drive, San Lorenzo CA R02558

**Perjury Statement**

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Bob Lawlor



General Partner

# Environmental Restoration Services

Site Investigations \* Fuel Tank Closures and Installations \* Site Remediation \* Regulatory Reporting

Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Second Floor  
Alameda, CA 94502

November 6, 2006

Attn: Mr. Barney Chan, Haz Mat. Specialist for : 15651 Worthley Dr., San Lorenzo

Re: Investigative Report

Dear Mr. Chan ,

Environmental Restoration Services (ERS) is pleased to submit to following investigative report for your review.

## 1.0 INTRODUCTION

On April 30, 2003 , one 12000 gallon underground tank last containing diesel was removed at the subject site (Figure 2) by ERS. Analytical results of a groundwater sample recovered from the excavation showed elevated levels of diesel constituents.

ERS treated the affected groundwater within the open excavation, has de-watered the excavation and sampled the re-charge. ERS has also sampled soil imported from off-site for backfilling purposes, and was granted a permit to discharge the treated groundwater to the sanitary sewer. When permission had been granted to use the imported soil as backfill, ERS de-watered the excavation one additional time, and sampled the re-charge, and backfilled the excavation using existing and imported soil. Under a discharge permit granted by the Oro Loma Sanitary District (OLSD), ERS has discharged all of the affected groundwater to the sanitary sewer.

This Report first reviews the site background, describes the previous tank removal, sampling protocols and the analytical results and previous remedial actions. The Report then describes the additional investigative scope of work, as requested by the Alameda County Health Care Services Agency (ACHCSA)

## 1.1 Site Location

The site is located in a commercial district of San Lorenzo, California on property at 15651 Worthley Dr. ( Figure 1).

## **1.2 Background**

On April 30, 2003, one 12,000 gallon underground tank last containing diesel was removed.

## **1.3 Site History**

### **1.3.1 Description of Site**

The site is occupied by a trucking terminal. About 20% of the site is occupied by the present structures, with the remaining area covered by asphalt and concrete driving surfaces.

## **2.0 SITE DESCRIPTION**

### **2.1 Site Description**

The site is located approximately 200 feet southeast of the corner of Grant Ave. and Worthley Dr.. An approximate 1500 square foot office and trucking terminal is located down the center portion of the parcel with an approximate 2000 square foot truck repair building located in north corner of the parcel. The majority of the remaining property is paved.

### **2.2 Vicinity Map**

A vicinity map is given in Figure 1 which includes the location of any known hydraulic influences. San Lorenzo Creek lies approximately 1600 feet northwest of the site and San Francisco Bay lies approximately 2700 feet northwest of the site. A site map is given in Figure 1 which includes information on adjacent streets.

### **2.3 Depth to Groundwater**

Depth to groundwater based groundwater elevation within the recently installed borings at the site is approximately five feet below ground surface (bgs.)

### **2.4 Soil Profile**

The boring logs show predominantly silty to high plasticity clays, with some fine sand lenses, starting at the ground surface.

### **2.5 Waste Removal**

One tank and approximately 7000 gallons of groundwater have been removed from the site.

## **2.6 Previous Investigative and Remedial Work**

On April 30, 2003, permission was given by the Health Inspector Robert Weston of the ACHSA to remove the tank from the excavation. The pea-gravel backfill material surrounding the tanks did appear to be stained and emit an odor. The tank was transported to the ECI T.S.D. facility in Richmond.

On April 30, 2003, after removal of the UST, ERS recovered one soil sample ("West SW@4") from the western excavation sidewall at approximately 4' bgs., and one groundwater sample from the excavation ("Pit GW"). The results of the analysis indicated levels of TPH/d, BTEX and fuel oxygenates below the varying detection limit for both samples, with the exception of TPH/d concentrations in groundwater sample "Pit GW" at 2560 parts per million (ppm).

On May 1, 2003 the groundwater within the excavation was inoculated with Solmar L-100 hydrocarbon consuming microbes. The groundwater within the excavation was aerated using a submersible electric pump.

On June 5, 2003, the excavation was dewatered of approximately 5000 gallons and stored on-site within a 5000 gallon aboveground storage tank (AST) and as groundwater was recharging into the excavation, a grab water sample was recovered. The analytical results of the groundwater recharge sample indicated no BTEX above the detection limit and 0.52 parts per million of TPH/d.

On June 5, 2003, one sample was obtained from the water contained in the tank and tested per Oro Loma Sanitary District (OLSD) waste discharge requirements. The analytical results were below discharge limits and a discharge permit was obtained from the OLSD.

On October 1, 2003 the 5000 gallons of groundwater within the AST and approximately 2000 gallons of groundwater within the excavation, was disposed of to the sanitary sewer.

On October 1, 2003, as groundwater was recharging into the excavation prior to backfill, a grab water sample was recovered. The analytical results of the groundwater recharge sample indicated no TPH/d above the analytical detection limit.

On October 1, 2003, prior to backfill, ERS also recovered one soil sample ("East - SW@4") from the eastern excavation sidewall at approximately 4' bgs.. The analytical results of the soil sample indicated no TPH/d or BTEX above the analytical detection limit.

### **3.0 INVESTIGATIVE SCOPE OF WORK**

The investigative scope of work comprised installing six soil borings at on-site locations and sampling the groundwater at each boring location.

#### **3.1 Reconnaissance Boring Installation and Groundwater Sampling**

Prior to initiating drilling, a subsurface drilling permit was obtained from the Alameda County Public Works Agency (ACPWA).

Six soil borings (SB-1 through SB-6) were constructed to determine the presence of hydrocarbons in the groundwater, in the vicinity of the former tank location. Boring locations are shown in Figure 2.

Prior to mobilization of the drilling equipment on-site and at each boring location, all associated boring and sampling equipment was thoroughly cleaned to removed all soil, oil, grease, mud, tar, etc. The cleaning process consisted of TSP cleaning of the drilling equipment and a clean water final rinse.

##### **3.1.1 Soil Boring Procedure**

On October 17, 2006, borings SB-1 through SB-6 were advanced using a small diameter push rig (Geo-Probe) to a depth of approximately 8 feet. All of the soil recovered from the borings SB-1 and SB-5 were logged under the supervision of a registered civil engineer.

##### **3.1.2 Groundwater Grab Sampling Procedures**

After completion of drilling, a new, PVC screened casing was inserted into each boring. Each boring was then allowed to recharge with groundwater. Then, a new, disposable bailer was inserted into the well casing for recovery of a groundwater grab sample. The groundwater was emptied into sample containers obtained directly from the analytical laboratory. An effort was made to minimize exposure of the sample to air. The groundwater samples were immediately stored on crushed ice and maintained at a constant 4 degrees Celsius. The samples were transported to Entech Analytical Labs (Entech) of Santa Clara, under chain-of-custody procedures.

### 3.1.3 Laboratory Analyses

The following analyses were performed on the groundwater samples obtained from the borings.

TPH-diesel (EPA Method CATFH); BTEX and MTBE (EPA Method 8020)

Analytical results did not indicate TPH-diesel, BTEX or MTBE concentrations above the detection limits at any of the sampling points.

### 3.3 Informal Groundwater Gradient Determination

In order to obtain an accurate estimation for groundwater gradient, the top of temporary well casings of borings SB-1, SB-3 and SB-5 were surveyed to an accuracy of 0.01 feet using an assumed elevation of 10 feet MSL for top of casing at SB-1.

Approximately 24 hours after sampling the borings, the water levels in each of the casings was measured within a five-minute period. The water surface elevations in the wells were be calculated using the survey data. An estimated horizontal hydraulic gradient was calculated based on accurately determined casing locations and depth to water measurements.

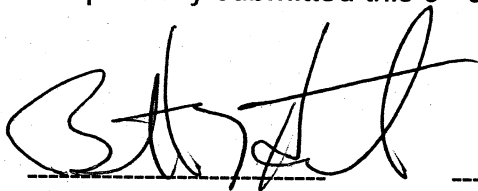
The gradient calculated indicated a north-northeastern flow direction at an average gradient of 0.89%. Gradient information is contained in Figure 2.

The borings were backfilled immediately after completion of the sampling and depth to water measurements, with a cement grout mixture containing approximately 3% bentonite

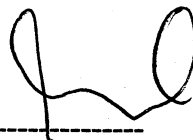
### 4.0 CONCLUSIONS

It appears that groundwater at the sample points outside of the pea gravel backfilled tank pit, has not been impacted by Total Petroleum Hydrocarbons as diesel. ERS recommends the site be considered for closure as a fuel leak site.

Respectfully submitted this 6<sup>th</sup> day of November, 2006.



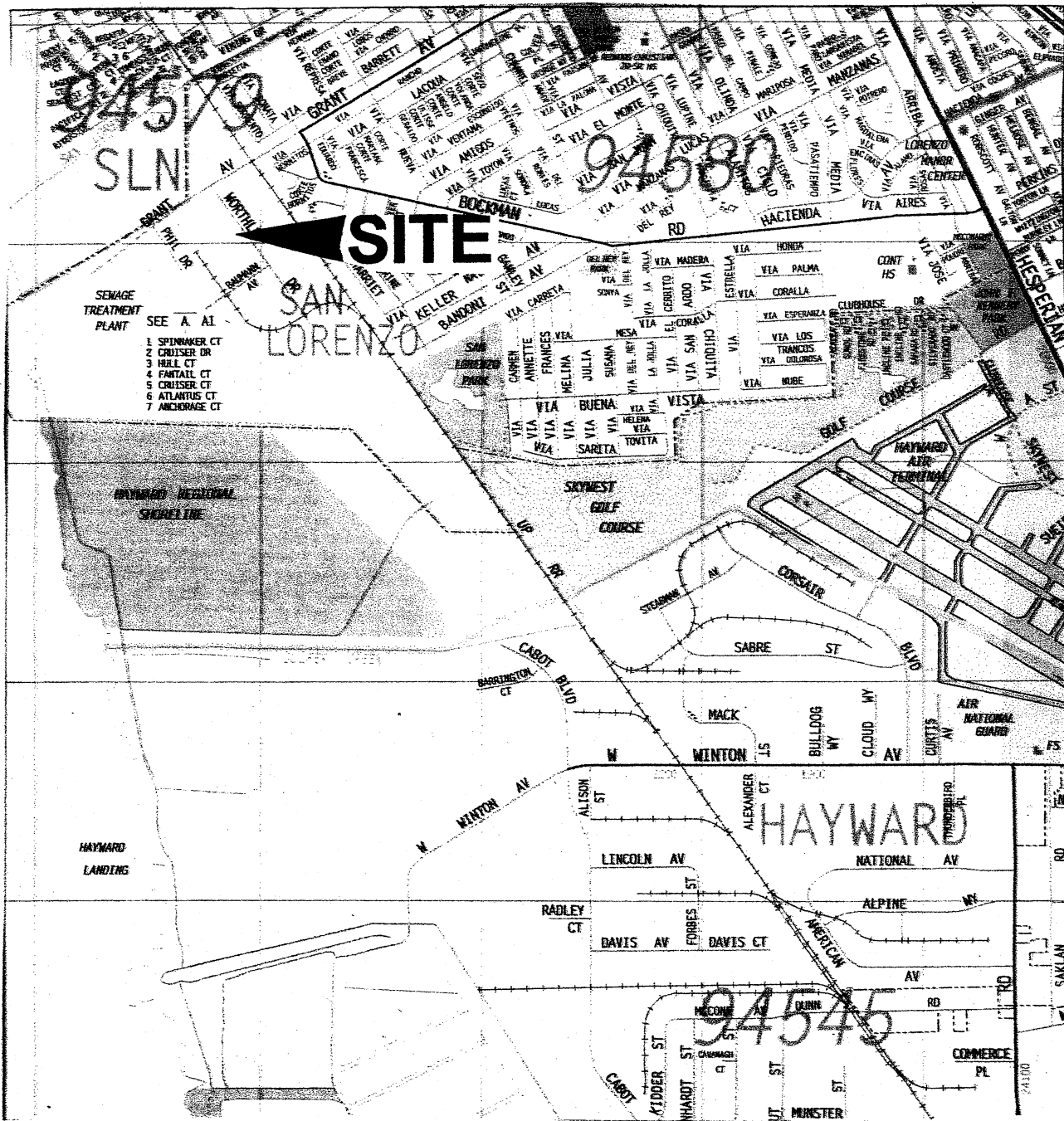
Bennett T. Halsted  
Project Manager



Samuel H. Halsted PE  
C.E. 14095



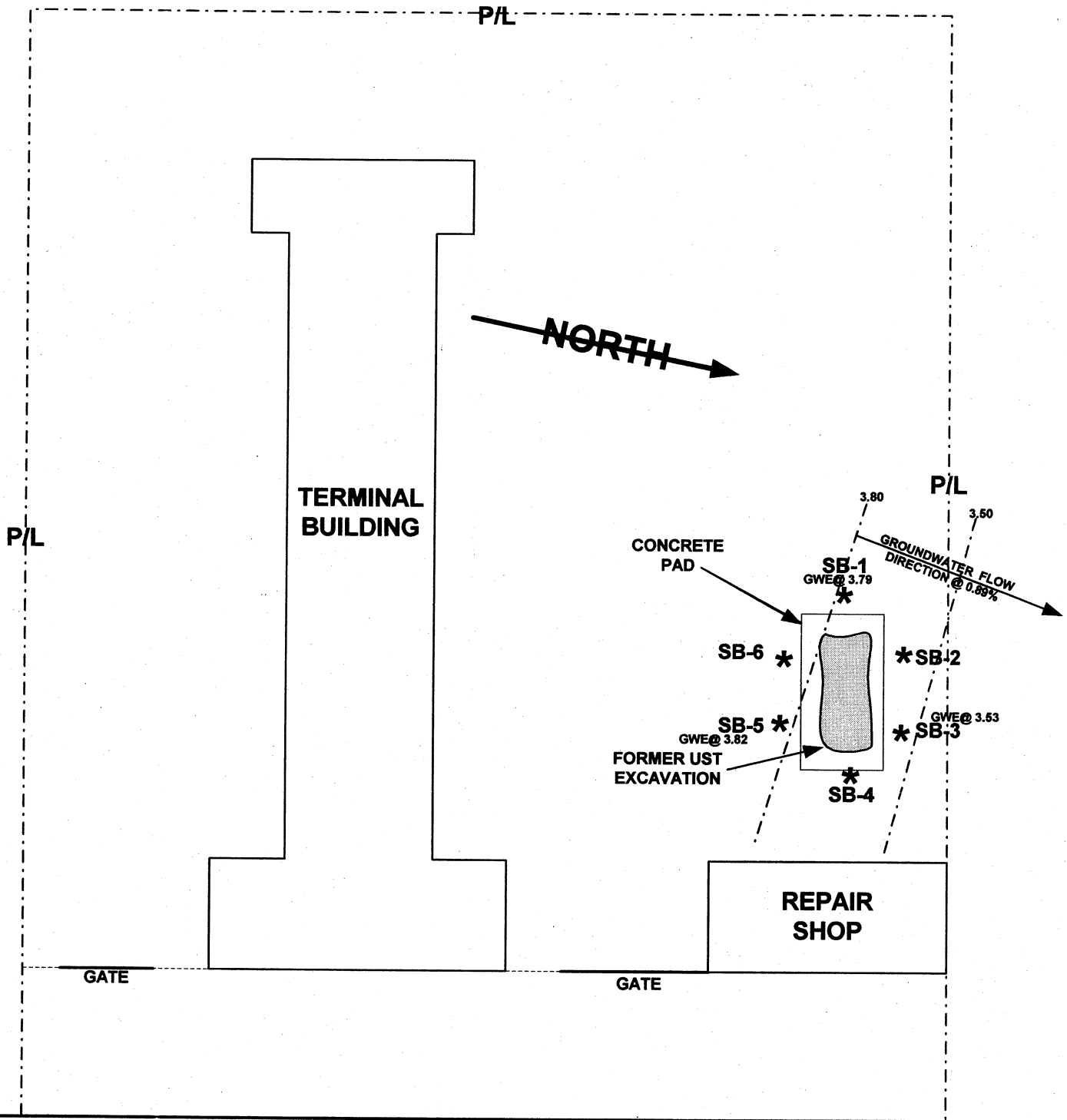
# FIGURES



**VICINITY MAP**  
 15651 Worthley Dr., San Lorenzo, CA

SCALE: 1"= 1900'	BY:
<i>Environmental Restoration Services</i>	<b>FIGURE 1</b>
<b>500 Santa Cruz Ave., Menlo Park, CA 94025</b>	





**\* BORING LOCATIONS**

Well#	Casing Elev.	Depth to Grndwtr.	Grndwtr. Elev.
SB-1	10.00	6.21	3.79
SB-3	10.18	6.65	3.53
SB-5	10.13	6.31	3.82

<h1>SITE PLAN</h1>		
<i>15651 Worthley Dr., San Lorenzo, CA</i>		
DATE 11/2/06	SCALE: 1"=40'	BY:
<i>Environmental Restoration Services</i>		<b>FIGURE 2</b>
<i>500 Santa Cruz Ave., Menlo Park, CA 94025</i>		

# **BORING LOGS**

# Environmental Restoration Services

# Boring Log

Location: 15651 Worthley Dr. , San Lorenzo Date: 10/17/06 Boring No.: SB-1

Drill Method: 2" Vibra-Push Logged By: BTH Page 1 of 1

Sample No.	Blow Count	Sample Type	Location Depth	USGS	Lithology Description	Well/Boring Completion Detail
					<b>Asphalt/Baserock</b>	<b>NEAT CEMENT</b>
				<b>CH</b>	CLAY, dark gray (10YR 4/1), v. stiff, high plasticity, moist. no odor.	
					silty CLAY, brown (7.5Y 5/4), med. stiff, high/med. plasticity, moist. no odor.	
			<b>5'</b>	<b>CL</b>	Silty SAND. Fine. 30% silt, 10% clay, med. dense, v. moist. Light yellowish brown (10YR6/4). No odor.	
				<b>SM</b>		
				<b>ML</b>	Low plasticity clayey SILT. 30% clay 15% fine sand. soft, v. moist. brownish yellow(10YR6/6). No odor.	
					<b>BOH</b>	
			<b>10'</b>			
			<b>15'</b>			
			<b>20'</b>			
			<b>25'</b>			
			<b>30'</b>			



**CHAIN-OF-CUSTODY  
ANALYTICAL RESULTS**

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

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

ELAP No. 2346

Attention to: <b>B. Halsted</b>	Phone No.: <b>650-325-3216</b>	Purchase Order No.:	Invoice to: (if Different):	Phone:
Company Name: <b>ELS</b>	Fax No.: <b>650-325-3238</b>	Project No. / Name:	Company:	
Mailing Address: <b>500 Santa Cruz Ave</b>	Email Address: <b>envalrestead@com</b>	Billing Address: (if Different):		
City: <b>Mountain View</b>	State: <b>CA</b>	Zip Code: <b>94025</b>	Project Location: <b>5651 Worthley S.L.</b>	City: State: Zip:

Entech Order ID:	Turn Around Time	Circle Applicable					
EDF <input type="checkbox"/>	<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 10 Day						
Global ID: <b>51961</b>	Sample Information	EPA 8260B Full List 8260 Petrochem: Lab Includes: Gas, PPEX, MBE, PBE, TBA, TAME, DPE, 1,2-DCA, EDB EPA 8270: Base/Neutral/Acid Organics 8270 Full List PAHs Only PFAS - SM Pesticides-8081 PCBs - 8082 TPA Laboratory: Diesel, Motor Oil, Other SL-58 Cleanup 810X, MBE by EPA 8015/8021B Metals - Circle Below Total Dissolved Solids TSS					
Client ID	Field Point	Date	Time	Entech Lab. No.	Matrix	No. of Containers	Remarks Instructions

Client ID	Field Point	Date	Time	Entech Lab. No.	Matrix	No. of Containers	Remarks Instructions
SB-1		10-17-06	3:40	001	W S		
SB-2			3:52	002			
SB-3			4:01	003			
SB-4			4:15	004			
SB-5			4:23	005			
SB-6			4:31	006			

**4 Day TAT**

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 10/19/06	Time: 14:10	Lab Use:
Relinquished by:	Received by:	Date:	Time:	
Relinquished by:	Received by:	Date:	Time:	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, Ti, Sn, Tl, Zn, V <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17

1 liter Amber, 2 VOA'S H2C each

Lab Use: Samples: Iced  Y/N    Temperature: **17.8°**  
 Appropriate Containers/Preservatives:  Y/N    Shipment Method: **walk in**  
 Labels match CoC?  Y/N    Headspace? Y/N    Custody Seals? Y/N  
 Separate Receipt Log Y/N

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Ben Halsted

Environmental Restoration Services-Menlo Park

500 Santa Cruz Avenue

Menlo Park, CA 94025

Lab Certificate Number: 51961

Issued: 11/10/2006

Project ID: 15651 Worthley S.L.

Project Name: DiSalvo

Project Location: 15651 Worthley S.L.

## Certificate of Analysis-Revision

Note: This is a revision of the original report issued on October 18, 2006 for a revision to the project name per the client's request.

On October 18, 2006, 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</u>	<u>Comments</u>
Liquid	TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M) VOCs: EPA 5030C / EPA 8021B	

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,



Erin Cunniffe  
Operations Manager

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Restoration Services-Menlo Park  
500 Santa Cruz Avenue  
Menlo Park, CA 94025  
Attn: Ben Halsted

Project ID: 15651 Worthley S.L.

Project Name: DiSalvo

Project Location: 15651 Worthley S.L.

## Certificate of Analysis - Data Report

Samples Received: 10/18/2006

Sample Collected by: Client

Lab #: 51961-001 Sample ID: SB-1

Matrix: Liquid Sample Date: 10/17/2006 3:40 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		2.6	130	µg/L	10/19/2006	WD061019AS	10/24/2006	WD061019AS
1100 ppb Motor Oil range organics. No Diesel pattern present.									

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	71.9	16 - 137

Analyzed by: JHsiang

Reviewed by: LGlantz

Lab #: 51961-002 Sample ID: SB-2

Matrix: Liquid Sample Date: 10/17/2006 3:55 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.9	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.9	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.2	60	µg/L	10/19/2006	WD061019AS	10/23/2006	WD061019AS

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	49.5	16 - 137

Analyzed by: JHsiang

Reviewed by: LGlantz

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

11/10/2006 10:42:24 AM - ECunniffe



# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Restoration Services-Menlo Park  
500 Santa Cruz Avenue  
Menlo Park, CA 94025  
Attn: Ben Halsted

Project ID: 15651 Worthley S.L.

Project Name: DiSalvo

Project Location: 15651 Worthley S.L.

## Certificate of Analysis - Data Report

Samples Received: 10/18/2006

Sample Collected by: Client

Lab #: 51961-003 Sample ID: SB-3

Matrix: Liquid Sample Date: 10/17/2006 4:09 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

Analyzed by: MaiChiTu

Reviewed by: TFulton

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.4	70	µg/L	10/19/2006	WD061019AS	10/23/2006	WD061019AS

450 ppb hydrocarbons (C14-C36). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	58.1	16 - 137

Analyzed by: JHsiang

Reviewed by: LGlantz

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Restoration Services-Menlo Park  
500 Santa Cruz Avenue  
Menlo Park, CA 94025  
Attn: Ben Halsted

Project ID: 15651 Worthley S.L.

Project Name: DiSalvo

Project Location: 15651 Worthley S.L.

## Certificate of Analysis - Data Report

Samples Received: 10/18/2006

Sample Collected by: Client

Lab #: 51961-004 Sample ID: SB-4

Matrix: Liquid Sample Date: 10/17/2006 4:15 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: MaiChiTu	
4-Bromofluorobenzene	99.3		65	- 135				Reviewed by: TFulton	

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: MaiChiTu	
4-Bromofluorobenzene	99.3		65	- 135				Reviewed by: TFulton	

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.1	55	µg/L	10/19/2006	WD061019AS	10/23/2006	WD061019AS
300 ppb hydrocarbons (C14-C36). No Diesel pattern present.									
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JHsiang	
o-Terphenyl	50.1		16	- 137				Reviewed by: LGlantz	

Lab #: 51961-005 Sample ID: SB-5

Matrix: Liquid Sample Date: 10/17/2006 4:23 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: MaiChiTu	
4-Bromofluorobenzene	99.4		65	- 135				Reviewed by: TFulton	

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: MaiChiTu	
4-Bromofluorobenzene	99.4		65	- 135				Reviewed by: TFulton	

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.1	55	µg/L	10/19/2006	WD061019AS	10/23/2006	WD061019AS
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JHsiang	
o-Terphenyl	57.9		16	- 137				Reviewed by: LGlantz	

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

11/10/2006 10:42:25 AM - ECunniffe

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Environmental Restoration Services-Menlo Park  
500 Santa Cruz Avenue  
Menlo Park, CA 94025  
Attn: Ben Halsted

Project ID: 15651 Worthley S.L.

Project Name: DiSalvo

Project Location: 15651 Worthley S.L.

## Certificate of Analysis - Data Report

Samples Received: 10/18/2006

Sample Collected by: Client

Lab #: 51961-006 Sample ID: SB-6

Matrix: Liquid Sample Date: 10/17/2006 4:37 PM

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					<b>Analyzed by:</b> MaiChiTu	
4-Bromofluorobenzene	97.1		65 - 135					<b>Reviewed by:</b> TFulton	

### VOCs: EPA 5030C / EPA 8021B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	10/19/2006	WGC061019
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					<b>Analyzed by:</b> MaiChiTu	
4-Bromofluorobenzene	97.1		65 - 135					<b>Reviewed by:</b> TFulton	

### TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	10/19/2006	WD061019AS	10/23/2006	WD061019AS
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					<b>Analyzed by:</b> JHsiang	
o-Terphenyl	50.4		16 - 137					<b>Reviewed by:</b> LGlantz	

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

11/10/2006 10:42:25 AM - ECunniffe

# Entech Analytical Labs, Inc.

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

Method Blank - Liquid - TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

QC/Prep Batch ID: WD061019AS

Validated by: LGlantz - 10/23/06

QC/Prep Date: 10/19/2006

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	72.7	16 - 137

LCS / LCSD - Liquid - TPH-Extractable with SGCU: EPA 3510C / EPA 3630C / EPA 8015B(M)

QC Batch ID: WD061019AS

Reviewed by: LGlantz - 10/23/06

QC/Prep Date: 10/19/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	581	µg/L	58.1	35 - 109
TPH as Motor Oil	<200	1000	839	µg/L	83.9	30 - 132

Surrogate	% Recovery	Control Limits
o-Terphenyl	59.1	16 - 137

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	572	µg/L	57.2	1.7	25.0	35 - 109
TPH as Motor Oil	<200	1000	797	µg/L	79.7	5.1	25.0	30 - 132

Surrogate	% Recovery	Control Limits
o-Terphenyl	59.5	16 - 137

# Entech Analytical Labs, Inc.

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

Method Blank - Liquid - VOCs: EPA 5030C / EPA 8021B

QC Batch ID: WGC061019

Validated by: TFulton - 10/20/06

QC Batch Analysis Date: 10/19/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	98.7	65 - 135

Method Blank - Liquid - VOCs: EPA 5030C / EPA 8021B

QC Batch ID: WGC061019

Validated by: TFulton - 10/20/06

QC Batch Analysis Date: 10/19/2006

Parameter	Result	DF	PQLR	Units
Methyl-t-butyl Ether	ND	1	1.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	98.7	65 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Liquid - VOCs: EPA 5030C / EPA 8021B

QC Batch ID: WGC061019

Reviewed by: TFulton - 10/20/06

QC Batch ID Analysis Date: 10/19/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	4.0	4.05	µg/L	101	65 - 135
Ethyl Benzene	<0.50	4.0	4.30	µg/L	108	65 - 135
Toluene	<0.50	4.0	4.15	µg/L	104	65 - 135
Xylenes, total	<0.50	12	13.0	µg/L	109	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	97.2	65 - 135

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	4.0	4.23	µg/L	106	4.3	25.0	65 - 135
Ethyl Benzene	<0.50	4.0	4.50	µg/L	112	4.5	25.0	65 - 135
Toluene	<0.50	4.0	4.37	µg/L	109	5.2	25.0	65 - 135
Xylenes, total	<0.50	12	13.6	µg/L	113	4.1	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.7	65 - 135

LCS / LCSD - Liquid - VOCs: EPA 5030C / EPA 8021B

QC Batch ID: WGC061019

Reviewed by: TFulton - 10/20/06

QC Batch ID Analysis Date: 10/19/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Methyl-t-butyl Ether	<1.0	4.0	3.81	µg/L	95.2	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	97.2	65 - 135

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Methyl-t-butyl Ether	<1.0	4.0	3.78	µg/L	94.5	0.79	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.7	65 - 135