



**Earth Systems Consultants**  
**Northern California**

47853 Warm Springs Blvd.  
Fremont, CA 94539-7400  
(510) 353-0320  
Fax (510) 353-0344

File No. FRE-4948-03  
January 17, 2003

Doc. No. 0301-038

Mirabito, Mooney, and Associates, Inc.  
1615 Bonanza Street, Suite 208  
Walnut Creek, California 94597-0459

Attention: Mr. Stephen Mirabito

Subject: 8855 San Leandro Street  
Oakland, California

**SPUR SOIL INVESTIGATION REPORT**

*W. Mirabito*  
*M. Mooney*  
Alameda County  
FEB 04 2003  
Environmental Health

Dear Mr. Mirabito:

As discussed with Mr. Jim Field, Earth Systems Consultants Northern California (ESCNC) has prepared the following report for submittal to the Alameda County Health Care Services Agency (ACHSCA) and the City of Oakland. The purpose of the report is to summarize the soil sampling activity associated with the railroad track spur at the subject site (Figure 1).

As stated in the bank response letter dated December 5, 2002, the County (ACHSCA) was contacted concerning the soil sampling results from the railroad track spur. The ACHSCA representative stated that the Regional Water Quality Control Board (RWQCB), San Francisco Region should be contacted for risk levels. The RWQCB representative was contacted and stated that the case would remain either with the City or County, based upon the levels reported for the site. However, based upon the arsenic levels present in the soil at the spur, the RWQCB representative recommended removal rather than encapsulation, although the decision should come from the local lead agency.

After review of the RWQCB risk based screening levels (RBSLs) document dated December 2001, the subject site falls under the City of Oakland's risk levels approved by the RWQCB.

**Scope of Work**

ESCNC prepared this report from the following scope of work in response to the client's Bank's request:

1. Prepare a response letter with the requested documentation for site closure included as an attachment.
2. Prepare a soil-sampling plan. The plan will include a program for field observation and limited soil sampling on an as needed basis.

3. Preparation of a follow-up report covering observation and any sample results following the soil management plan.

#### **Pre Management Plan Field Work: Evaluation and Sampling**

##### **1. Two Disturbed Soil Areas: former UST and southeast corner of the main building.**

The case closure letter from the County of Alameda, and on file with the City of Oakland Fire Department, was reviewed for the location of the past Underground Storage Tanks (USTs). The disturbed soil area in the southeast corner of the building was found to be the location of the former waste oil tank. The site of the former USTs is shown on the attached Figure 2.

##### **2. Soil Management Plan (included for reference)**

The soil management plan will consist of: Field observation during the final demolition of the buildings and associated parking areas at the site. Soil samples will be collected in select areas, if conditions require sampling. Areas anticipated to require sampling will be stained areas that remain after removal of the asphalt and concrete and any base used. The samples collected from the stained areas will be analyzed for TPHg, BTEX, and TPHmo by EPA Methods 8015/8020. We anticipate approximately one day of field time for the site observation and sampling.

If concentrations above Risk Based Levels of the City of Oakland or RWQCB and/or County Action Levels are encountered, the area will be overexcavated and the soil removed. The soil will be sampled and profiled for disposal at an appropriate facility. Confirmation samples will be collected in the excavation and analyzed for TPHg, BTEX and TPHmo.

##### **3. Spur Soil Sampling Results and Discussion**

Soil samples were collected on November 27, 2002 from the railroad spur located on the southern portion of the subject site. The samples, S1 and S2, were collected at a depth of three and six inches, respectively. The two samples were analyzed for TPH as motor oil (TPHmo) by EPA method 8015M, Organochlorine Pesticides by EPA Method 8081A, PCBs by EPA Method 8082A, and Arsenic and Lead by EPA method 6010B.

The laboratory results for the two samples indicated that TPHmo concentrations were 2300 parts per million (ppm) for S1 and 340 ppm for S2. Lead was reported at concentrations of 820 ppm in S1 and 740 ppm in S2. Arsenic was reported at concentration of 46 ppm in S1 and 35 ppm in S2. DDD and DDT were reported in S1 at concentrations of 0.13 and 0.64 ppm, respectively. The PCB Aroclor 1260 was reported at concentrations of 1.2 ppm in S1 and 0.38 ppm in S2. The summary of analytical results is shown in Table 1.

The sample results were compared to County action levels and EPA Preliminary Remediation Goals (PRGs) for industrial sites. The PCB and Lead results from sample S1 exceed the PRGs. The arsenic results exceed the RWQCB and City of Oakland carcinogen RBSLs in both samples, but are less than the Oakland hazard RBSL. TPHmo exceeds the Action Level in both samples. The other results are below the PRGs for industrial sites.

**Recommendation**

As discussed on December 5, 2002, ESCNC recommends encapsulation of the soil on the spur rather than removal of the soil along the ties and rails along the spur. ESCNC will coordinate with the Alameda County Health Care Services Agency for regulatory approval of the site for encapsulation.

ESCNC appreciates this opportunity to be of service.

Very truly yours,

**EARTH SYSTEMS CONSULTANTS  
Northern California**



Gary Pischke  
Senior Geologist  
Certified Engineering Geologist 1501  
Registered Environmental Assessor 04365

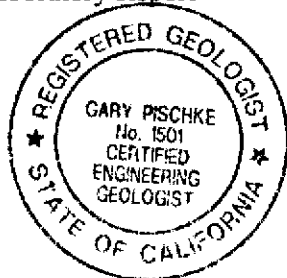


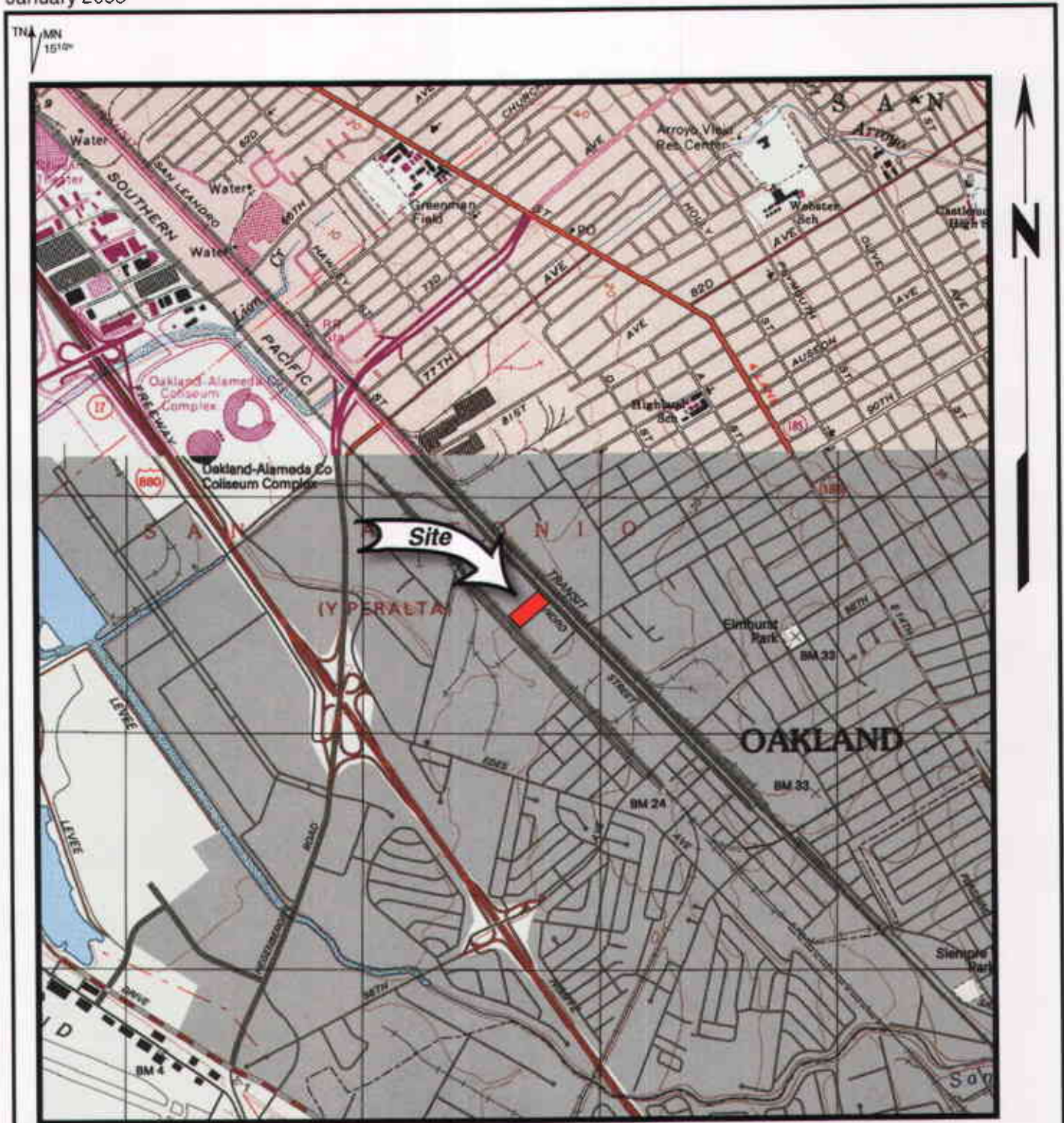
Carl W. Greenlee  
Senior Vice President  
Geotechnical Engineer 355

GP/CWG: gwDisk004.89

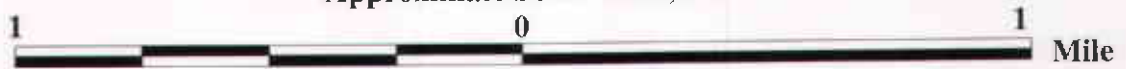
Distribution: 4 to addressee  
1 to City of Oakland, Public Works Agency, Environmental Services Division  
1 to Alameda County Health Care Services Agency: Attn. Barney Chan

Attachments: Figure 1: Site Location Map  
Figure 2: Site Plan showing sample locations.  
Table 1  
Laboratory Report





Approximate Scale 1: 24,000



Base: U.S.G.S. 7.5 minute San Leandro (1993) & Oakland East (1980) Quadrangles  
 Printed from TOPO™ ©1997 Wikiflower Productions (415) 558-8700, www.topo.com

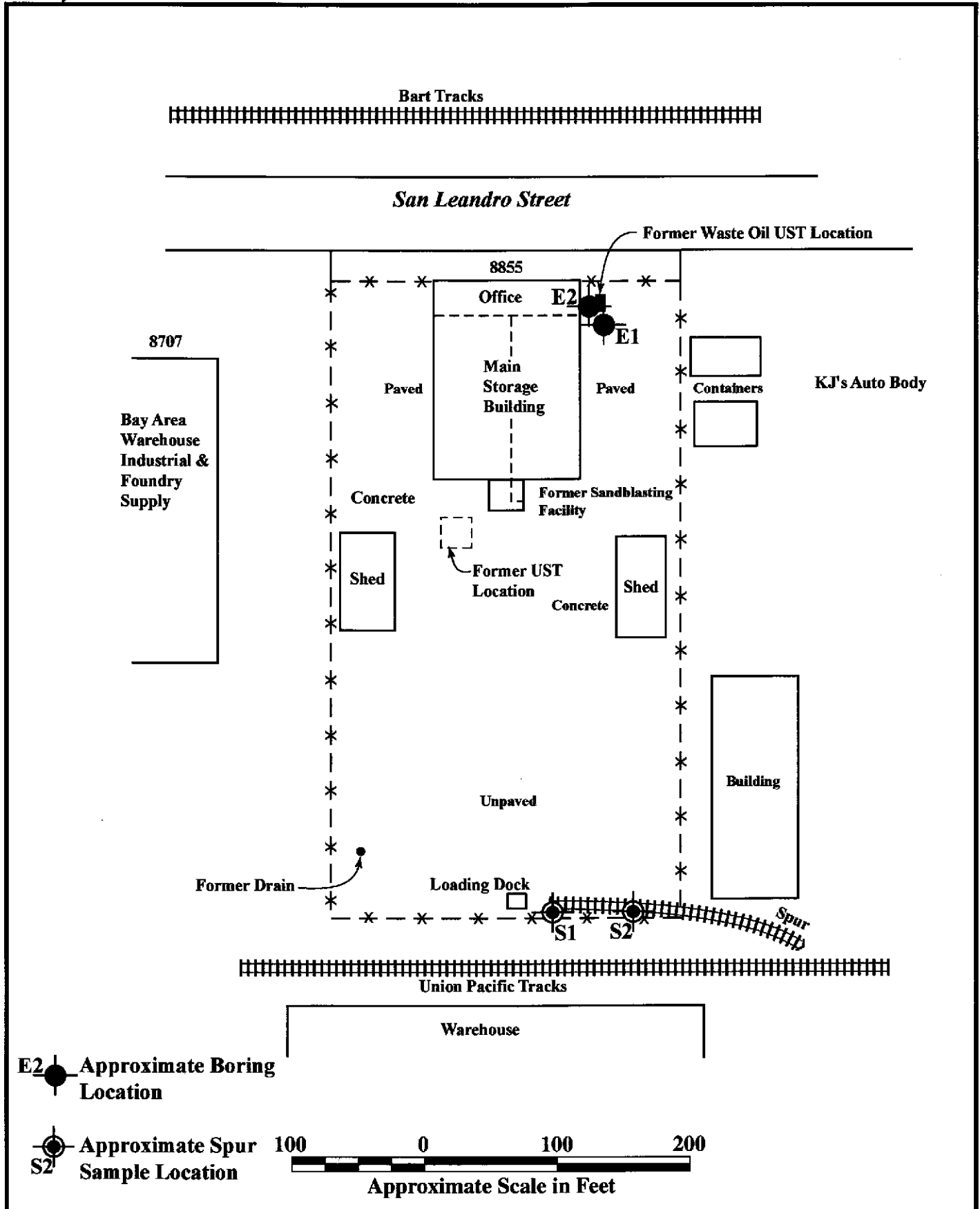


**Earth Systems Consultants**  
 Northern California

Self Storage Building  
 8855 San Leandro Street  
 Oakland, California

**SITE LOCATION**

Figure 1



**E2** — Approximate Boring Location

**S2** — Approximate Spur Sample Location



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

8855 San Leandro Street  
Railroad Spur  
Oakland, California  
( mg/Kg, parts per million)

Sample	Date	TPHmo	8082A (Aroclor 1260)	8081A (4,4 DDD)	8081A (4,4 DDT)	Arsenic	Lead
S1	11/27/02	2300 (a)	1.20	0.13	0.64	46	820.0
S2	11/27/02	340	0.38	ND	ND	35	740.0
CCRs						500.0	1000.0
PRGs			1.0	17.0	12.0	440.0	750.0
Background						16-65	30-300
RBSL			1.000	17.000	4.000	2.7	750
RBSL:Okld			.18/10			15/250	
Action Level		1000					

Notes:

- TPHmo Total Petroleum Hydrocarbons as Motor Oil
- 8082A PCBs: All other compounds were non-detectable
- 8081A Pesticides: All other compounds were non-detectable
- < Analyte less than indicated detection limit.
- (a) Results within quantitation range; chromatographic pattern not typical of fuel
- ND Not Detected as method detection limits
- PRG Preliminary Remediation Goals "risk-based concentrations" for industrial sites.
- RBSL Risk Based Screening Level- Industrial: RWQCB
- RBSL:Okld Risk Based Screening Level- Industrial: Oakland Tier 1 Levels

# Entech Analytical Labs, Inc.

REC'D DEC 06 2002

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

December 04, 2002

Gary Pischke  
Earth Systems Consultants  
47853 Warm Springs Boulevard  
Fremont, CA 94539-7400

Order: 32256  
Project Name: San Leandro St. P2  
Project Number: FRE-4948-03  
Project Notes: Re-issue of metals data for work order 32256. Original Arsenic results reported from incorrect instrument in error. Please disregard previously submitted data for lead and arsenic results.

Date Collected: 11/27/2002  
Date Received: 11/27/2002  
P.O. Number: FRE-4948-03

On November 27, 2002, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Solid	Arsenic	EPA 6010B
	Lead	EPA 6010B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Patti Sandrock  
QA/QC Manager

# Entech Analytical Labs, Inc.

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

Earth Systems Consultants  
47853 Warm Springs Boulevard  
Fremont, CA 94539-7400  
Attn: Gary Pischke

Date: 12/4/02  
Date Received: 11/27/2002  
Project Name: San Leandro St. P2  
Project Number: FRE-4948-03  
P.O. Number: FRE-4948-03  
Sampled By: Gary Pischke

## Certified Analytical Report

Order ID: 32256	Lab Sample ID: 32256-001	Client Sample ID: S1							
Sample Time: 9:24 AM	Sample Date: 11/27/2002	Matrix: Solid							
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Arsenic	4.7	1	1	1	mg/Kg	11/27/2002	12/3/2002	SM8259B	EPA 6010B
Lead	820	1	1	1	mg/Kg	11/27/2002	12/2/2002	SM8259B	EPA 6010B

Order ID: 32256	Lab Sample ID: 32256-002	Client Sample ID: S2							
Sample Time: 9:30 AM	Sample Date: 11/27/2002	Matrix: Solid							
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Arsenic	4.8	1	1	1	mg/Kg	11/27/2002	12/3/2002	SM8259B	EPA 6010B
Lead	740	1	1	1	mg/Kg	11/27/2002	12/2/2002	SM8259B	EPA 6010B

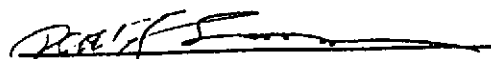
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager



# Entech Analytical Labs, Inc.

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

December 03, 2002

Gary Pischke  
Earth Systems Consultants  
47853 Warm Springs Boulevard  
Fremont, CA 94539-7400

Order: 32256  
Project Name: San Leandro St. P2  
Project Number: FRE-4948-03  
Project Notes:

Date Collected: 11/27/02  
Date Received: 11/27/02  
P.O. Number: FRE-4948-03

On November 27, 2002, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Solid	Arsenic	EPA 6010B
	EPA 8081A	EPA 8081A
	EPA 8082A	EPA 8082A
	Lead	EPA 6010B
	TPH as Motor Oil	EPA 8015 MOD. (Extractable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Patti Sandrock  
QA/QC Manager

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Earth Systems Consultants  
 47853 Warm Springs Boulevard  
 Fremont, CA 94539-7400  
 Attn: Gary Pischke

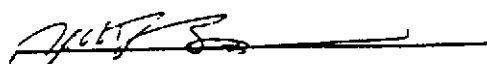
Date: 12/3/02  
 Date Received: 11/27/2002  
 Project Name: San Leandro St. P2  
 Project Number: FRE-4948-03  
 P.O. Number: FRE-4948-03  
 Sampled By: Gary Pischke

## Certified Analytical Report

Order ID: 32256	Lab Sample ID: 32256-001	Client Sample ID: S1								
Sample Time: 9:24 AM	Sample Date: 11/27/2002	Matrix: Solid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	2300	x	100	13	1300	mg Kg	11/27/2002	12/3/2002	DS4230A	EPA 8015 MOD. (Extractable)
						Surrogate o-Terphenyl	Surrogate Recovery 107.0		Control Limits (%) 40 - 128	
Comment:	While Motor Oil is present, a second fuel overlapping from the Hydraulic Oil quantitation range into the Motor Oil quantitation range, has resulted in an elevated final Motor Oil result.									

Order ID: 32256	Lab Sample ID: 32256-002	Client Sample ID: S2								
Sample Time: 9:30 AM	Sample Date: 11/27/2002	Matrix: Solid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	340		10	13	130	mg Kg	11/27/2002	12/3/2002	DS4230A	EPA 8015 MOD. (Extractable)
						Surrogate o-Terphenyl	Surrogate Recovery 39.0		Control Limits (%) 40 - 128	

DF = Dilution Factor      ND = Not Detected      DLR = Detection Limit Reported      PQL = Practical Quantitation Limit  
 Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
 Patti Sandrock, QA/QC Manager

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Earth Systems Consultants  
47853 Warm Springs Boulevard  
Fremont, CA 94539-7400  
Attn: Gary Pischke

Date: 12/3/02  
Date Received: 11/27/02  
Project Name: San Leandro St. P2  
Project Number: FRE-4948-03  
P.O. Number: FRE-4948-03  
Sampled By: Gary Pischke

## Certified Analytical Report

Order ID: 32256	Lab Sample ID: 32256-001	Client Sample ID: S1								
Sample Time: 9:24 AM	Sample Date: 11/27/02	Matrix: Solid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Aroclor 1016	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1221	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1232	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1242	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1248	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1254	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1260	1.2		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1262	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1268	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Surrogate						Surrogate Recovery			Control Limits (%)	
Decachlorobiphenyl						108.7			50 - 142	

Order ID: 32256	Lab Sample ID: 32256-002	Client Sample ID: S2								
Sample Time: 9:30 AM	Sample Date: 11/27/02	Matrix: Solid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Aroclor 1016	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1221	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1232	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1242	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1248	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1254	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1260	0.38		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1262	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Aroclor 1268	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS7194B	EPA 8082A
Surrogate						Surrogate Recovery			Control Limits (%)	
Decachlorobiphenyl						108.8			50 - 142	


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

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

Earth Systems Consultants  
47853 Warm Springs Boulevard  
Fremont, CA 94539-7400  
Attn: Gary Pischke

Date: 12/3/02  
Date Received: 11/27/02  
Project Name: San Leandro St. P2  
Project Number: FRE-4948-03  
P.O. Number: FRE-4948-03  
Sampled By: Gary Pischke

## Certified Analytical Report

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Chlordane (technical)	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Alpha-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Gamma-BHC (Lindane)	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Beta-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Heptachlor	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
delta-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Aldrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Heptachlor Epoxide	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan I	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4'-DDE	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Dieldrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4'-DDD	0.13		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan II	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4-DDT	0.64		5	0.05	0.25	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin Aldehyde	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan Sulfate	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Methoxychlor	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin Ketone	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Toxaphene	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
						Surrogate	Surrogate Recovery		Control Limits (%)	
						Decachlorobiphenyl	108.7		43 - 156	

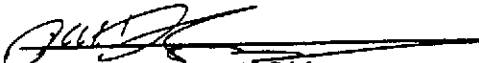
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Patti Sandrock, QA/QC Manager

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 Attn: Gary Pischke

Date: 12/3/02  
 Date Received: 11/27/02  
 Project Name: San Leandro St. P2  
 Project Number: FRE-4948-03  
 P.O. Number: FRE-4948-03  
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## Certified Analytical Report

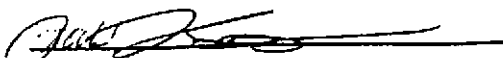
Order ID: 32256      Lab Sample ID: 32256-002      Client Sample ID: S2  
 Sample Time: 9:30 AM      Sample Date: 11/27/02      Matrix: Solid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Chlordane (technical)	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Alpha-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Gamma-BHC (Lindane)	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Beta-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Heptachlor	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
delta-BHC	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Aldrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Heptachlor Epoxide	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan I	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4'-DDE	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Dieldrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4'-DDD	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan II	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
4,4-DDT	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin Aldehyde	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endosulfan Sulfate	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Methoxychlor	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Endrin Ketone	ND		1	0.05	0.05	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A
Toxaphene	ND		1	0.1	0.1	mg/Kg	11/27/02	12/02/02	PS6095A	EPA 8081A

Surrogate      Surrogate Recovery      Control Limits (%)  
 Decachlorobiphenyl      103.7      43 - 156

DF = Dilution Factor      ND = Not Detected      DLR = Detection Limit Reported      PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
 Patti Sandrock, QA/QC Manager

# Entech Analytical Labs, Inc.

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

## STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel
Y	PQL is reported below MDL but verified against a standard analyzed at the client requested reporting limit of 0.5 ppb
C	Reported results affected by contaminated reagent materials. See narrative for further explanation

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch #: PS6095A  
Matrix: Solid

Units: mg/Kg  
Date Analyzed: 12/02/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test: EPA 8081A</b>											
4,4-DDT	EPA 8081A	ND		0.1		0.1068	LCS	106.8			47.6 - 134.9
Aldrin	EPA 8081A	ND		0.1		0.0968	LCS	96.8			43.4 - 145.0
Dieldrin	EPA 8081A	ND		0.1		0.1036	LCS	103.6			44.1 - 153.0
Endrin	EPA 8081A	ND		0.1		0.1053	LCS	105.3			35.9 - 145.0
Gamma-BHC (Lindane)	EPA 8081A	ND		0.1		0.0961	LCS	96.1			44.7 - 144.0
Heptachlor	EPA 8081A	ND		0.1		0.0988	LCS	98.8			43.0 - 141.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
Decachlorobiphenyl			100.0			43 - 156					
<b>Test: EPA 8081A</b>											
4,4-DDT	EPA 8081A	ND		0.1		0.1065	LCSD	106.5	0.28	50.00	47.6 - 134.9
Aldrin	EPA 8081A	ND		0.1		0.0979	LCSD	97.9	1.13	43.00	43.4 - 145.0
Dieldrin	EPA 8081A	ND		0.1		0.1018	LCSD	101.8	1.75	38.00	44.1 - 153.0
Endrin	EPA 8081A	ND		0.1		0.1039	LCSD	103.9	1.34	45.00	35.9 - 145.0
Gamma-BHC (Lindane)	EPA 8081A	ND		0.1		0.0958	LCSD	95.8	0.31	50.00	44.7 - 144.0
Heptachlor	EPA 8081A	ND		0.1		0.0997	LCSD	99.7	0.91	31.00	43.0 - 141.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
Decachlorobiphenyl			100.2			43 - 156					

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch #: PS7194B  
Matrix: Solid

Units: mg/Kg  
Date Analyzed: 12/02/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8082A											
Aroclor 1260	EPA 8082A	ND		0.2		0.1917	LCS	95.8			71.0 - 135.0
	Surrogate			Surrogate Recovery		Control Limits (%)					
	Decachlorobiphenyl			97.4		50 - 142					
Test: EPA 8082A											
Aroclor 1260	EPA 8082A	ND		0.2		0.1956	LCSD	97.8	2.01	30.00	71.0 - 135.0
	Surrogate			Surrogate Recovery		Control Limits (%)					
	Decachlorobiphenyl			96.9		50 - 142					



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## Quality Control Results Summary

QC Batch #: SM8259B  
Matrix: Solid

Units: mg/Kg  
Date Analyzed: 11/27/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Arsenic	EPA 6010B	ND		50		50.59	LCS	101.2			61.4 - 115.2
Lead	EPA 6010B	ND		50		53.45	LCS	106.9			61.2 - 120.0
Arsenic	EPA 6010B	ND		50		48.75	LCSD	97.5	3.70	30.00	61.4 - 115.2
Lead	EPA 6010B	ND		50		48.89	LCSD	97.8	8.91	30.00	61.2 - 120.0

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch #: DS4230A  
Matrix: Solid

Units: mg/Kg  
Date Analyzed: 12/27/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test:</b> TPH as Diesel											
TPH as Diesel	EPA 8015 M	ND		25		18.739	LCS	75.0			26.8 - 142.0
	<b>Surrogate</b>										
	o-Terphenyl			88.0							
<b>Test:</b> TPH as Diesel											
TPH as Diesel	EPA 8015 M	ND		25		17.392	LCSD	69.6	7.46	30.00	26.8 - 142.0
	<b>Surrogate</b>										
	o-Terphenyl			84.0							

**CHAIN OF CUSTODY RECORD**

PROJECT NO. <b>FRE-4948-03</b>		PROJECT NAME <b>San Leandro St. P2</b>					NO. OF CONTAINERS	SAMPLE TYPE	ANALYSES REQUESTED										
SAMPLER (SIGN) <i>Gay Pischke</i>		SAMPLER (PRINT) <b>Gay Pischke</b>							1	W	TPH no 80157	PCBs 8082	lead, arsenic 6010	organochlor: 8081					
SAMPLE ID	DATE	TIME	COMP	GRAB	PRES. USED	ICED													
S1	11/27/02	9:24		X		✓			X	X	X	X						32256-001	
S2	11/27/02	9:30		X		✓			X	X	X	X						002	
<b>48 HR RUSH</b>																			
Relinquished by <i>Gay Pischke</i>		Date: 11/27/02	Time: 12:45pm	Received by <i>James Le</i>			Date: 11-27	Time: 12:45p	Send Report To: <b>Gay Pischke</b>										
Relinquished by		Date:	Time:	Received by <i>Joe</i>			Date: 11-27-02	Time: 15:10											
Laboratory: <b>Entech</b>			Turnaround Time: <b>48 hour</b>			Receipt Condition:			 <b>Earth Systems Consultants</b> Northern California 47853 Warm Springs Blvd. Fremont, CA 94539-7400 (510) 353 0320 • Fax (510) 353 0344										

*Shadado 11/27/02 1550*