

PIERS



**Environmental
Services, Inc.**

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San Jose, CA 95128

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

December 27, 2000

Attn: Mr. Barney Chan; Haz Mat. Specialist for : DiSalvo Trucking
4919 Tidewater Ave., Oakland

Re: **Investigative Report**

ENVIRONMENTAL
PROTECTION
00 DEC 28 PM 1:41

Dear Mr. Chan,

This Report has been prepared by PIERS Environmental Services, (PIERS) to address requirements by the Alameda County Department of Environmental Health (ACDEH) for the performance of a groundwater investigation at a Underground Storage Tank (UST) site, 4919 Tidewater Ave., Oakland, California.

The purpose of this investigation was to further determine the horizontal extent of hydrocarbons in soil and groundwater. This report first reviews the known site history, describes the site vicinity, and presents existing chemical data. Then, the findings of the investigation are given including analytical results of on-site soil and groundwater sampling.

1.2 Site Location

The site is located in a light industrial district of Oakland, California on property at 4919 Tidewater Ave.(Figure 1).

1.3 Previous Subsurface Work at Site

Previous subsurface work at the site includes soil excavation and bio remediation, groundwater disposal, soil borings and sampling, monitor well construction and sampling. Description and chemical results from all work conducted to date are given in reports by Geo Environmental Technology (GTE) of San Jose dated April, 1989, June 1989 and February 1991 and in reports by Gen-Tech Environmental, Inc., (GTE) dated May 1994 and November 1994.

2.0 SITE DESCRIPTION

2.1 Site Description and Hydrogeologic Setting

The site is located on the west side of Tidewater Ave.. A 8000 square foot metal building is located on the northwest portion of the approximate one acre parcel. The majority of the remaining property is paved with asphalt. The site is located at the fringe of the San Francisco Bay on soil that appears to have been imported to fill the location to approximately four feet above the mean high tide elevation. The imported fill caps the entire site and contains sands, gravels, concrete and asphalt. Approximately two to three feet of native silty clay, silt, clayey sand and peat lie between this fill and the bay mud aquatard.

2.2 Vicinity Map

A vicinity map is given in Figure 1 which includes the location of any known hydraulic influences. The San Francisco Bay lies approximately 100 feet southeast of the site. A site map is given in Figure 2 which includes information on adjacent streets, site building locations, locations of existing wells, past soil borings and former tanks.

2.3 Existing Analytical Results

In April of 1994, three monitoring wells were installed at the site by Gen-Tech Environmental (GTE) of San Jose CA.. Eleven soil borings were also advanced at the same time by GTE. Groundwater grab samples were recovered from each boring and tested for TPH/g, TPH/d and BTEX.

In August of 1995, one monitoring well and two soil borings were installed at the site by Environmental restoration Services (ERS) of Menlo Park, CA..

2.3.2 Depth to Groundwater

Depth to groundwater based on the monitor well sampling is approximately two feet below ground surface.

2.3.3 Soil Profile

The boring logs for the monitor wells show predominantly import sands and gravels underlain with peat.

2.4 Waste Removal

Three fuel tanks, one waste oil tank and approximately 40,000 gallons of hydrocarbon impacted groundwater have been removed from the site. Approximately 70 gallons of diesel fuel recovered from an on-site, groundwater recovery sump has been removed from the site.

Is this properly documented

3.0 INVESTIGATIVE INTRODUCTION

Based on historical analytical data from well samplings, PIERS believes that levels of gasoline and BTEX found in the groundwater at the site do not need to be investigated. PIERS therefore will analyze soil and groundwater samples for TPH/diesel only, with the exception of the groundwater sample recovered from boring SB-4.

Based on the hydrogeology of the site vicinity, PIERS believes that the vertical distribution of groundwater containing hydrocarbons does not require investigation beyond the bay mud aquatard (approximately 6 to 7 feet bgs.).

In addition, PIERS believes that the extent of any soil contamination on the site is due to the migration of the hydrocarbon in the shallow groundwater as it moves through the imported sand and gravel fill material. Since the extent of soil contamination has not been defined below this fill material, the investigative scope of work was comprised of soil sampling, at the bottom of the groundwater aquifer, at on-site locations.

Since the lateral extent of groundwater contamination at the site has not been defined, the investigative scope of work was also comprised of groundwater sampling at on-site locations.

3.1 Reconnaissance Boring Installation, Soil and Groundwater Sampling

On December 20, 2000, 16 borings were constructed to determine the presence of hydrocarbons in the soil and groundwater around the entire property. The location of borings SB-1 through SB-16 are shown in Figure 2.

Prior to mobilization of the drilling equipment on-site, and prior to leaving the site, all associated equipment and well installation equipment were 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. Before drilling each boring, all drill stems, bits, and other down-hole equipment were cleaned.

3.1.1 Soil Boring Procedure

The borings were advanced using a 2" diameter Geo-Probe to a depth of approximately eight feet. All of the soil recovered from the boring was logged under the supervision of a registered civil engineer. Visual and olfactory observations of petroleum hydrocarbons were made and recorded on the boring log. The boring logs are contained in the appendix of this Report.

3.1.2 Soil Sampling Procedures

The soil samples were recovered from each boring at the bottom of the groundwater aquifer. Each sample was cut from the continuous core container at the desired sample depth. The container were then ~~be~~ sealed with Teflon sheet and plastic caps. The soil samples were immediately stored on ice. Only those soil samples recovered from borings that contained detectable amounts of diesel in the groundwater were analyzed for TPH/diesel.

3.1.3 Groundwater Grab Sampling Procedures

After completion of drilling, each boring was allowed to recharge with groundwater. Then, a new, disposable bailer was inserted into the boring for recovery of a groundwater grab sample. The groundwater was emptied into sample containers obtained directly from an analytical laboratory. An effort will be made to minimize exposure of the sample to air. The groundwater samples were immediately stored on ice.

Care was taken to collect all excess water resulting from the sampling and cleaning procedures. The excess water was contained in a pre-labeled 55-gallon drum on-site pending receipt of laboratory analyses.

The borings were backfilled immediately after completion of the sampling with a cement grout mixture containing approximately 3% bentonite.

3.1.4 Laboratory Analyses

The following analyses were performed by the on-site lab operated by Mobile Chem Labs (MCL) of Lafayette, CA, on the soil an groundwater samples obtained from the borings:

TPH-diesel (EPA Method 8015M)

(Groundwater sample SB4-GW was also analyzed for BTEX, EPA Method 8020)

The analytical results of the groundwater samples were as follows

Results in Parts Per Million (PPM)

Sample#	TPH/d				
SB1-GW	ND				
SB2-GW	26				
SB3-GW	ND	Benzene	Toluene	Ethylbenzene	Xylenes
SB4-GW	ND	ND	ND	ND	ND
SB5-GW	110				
SB6-GW	230				
SB7-GW	ND				
SB8-GW	ND				
SB9-GW	ND				
SB10-GW	670				
SB11-GW	ND				
SB12-GW	190				
SB13-GW	ND				
SB14-GW	44				
SB15-GW	48				
SB16-GW	2				

The analytical results of the soil samples were as follows:

Results in Parts Per Million (PPM)

Sample#	TPH/d
SB2@6'	ND
SB5@ 6.5'	ND
SB6@ 7'	ND
SB10@ 6'	ND
SB12@ 6.5'	ND
SB14@ 7'	ND
SB15@ 6'	ND
SB16@ 6.5'	14

4.0 CONCLUSIONS and RECOMMENDATIONS

Sixteen soil borings were advanced at the subject site. Groundwater samples were recovered from all sixteen borings. A groundwater iso-concentration map for diesel is shown in Figure 2. Soil samples were analyzed from all borings that contained detectable levels of diesel in the groundwater. The soil samples were recovered from the bottom of the groundwater aquifer. Analytical results of soil samples indicated low to non-detectable levels of diesel.

It appears that elevated levels of diesel remain in the groundwater to the northeast of the former tank locations and this contaminate plume appears to be migrating to the northwest. Soil within this plume has been impacted with diesel from the top of the aquifer (approximately 2 feet bgs.) to the bottom of the aquifer (approximately 6 feet bgs.).

Concentrations of diesel in the groundwater do not appear to have been reduced from natural attenuation since the last investigation conducted in April of 1994.

PIERS recommends that the client negotiate with East Bay Municipal Utility District (EBMUD) to design a groundwater treatment system to discharge diesel impacted groundwater to the sanitary sewer.

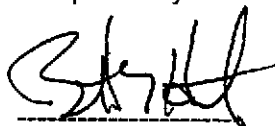
PIERS further recommends that the groundwater extraction system be expanded by installing a recovery trench from the existing recovery sump to the terminal building to the northwest.

Once a groundwater recovery and treatment system has been approved by EBMUD and ACDEH. The cost of a Remedial Action Plan will need to be approved by the State Cleanup Fund before implementation.

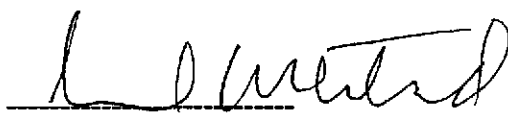
5.0 LIMITATIONS

The observations presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The observations presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions of the soil and groundwater with respect to hydrocarbons identified during previous work. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

Respectfully submitted this 27th day of December, 2000,

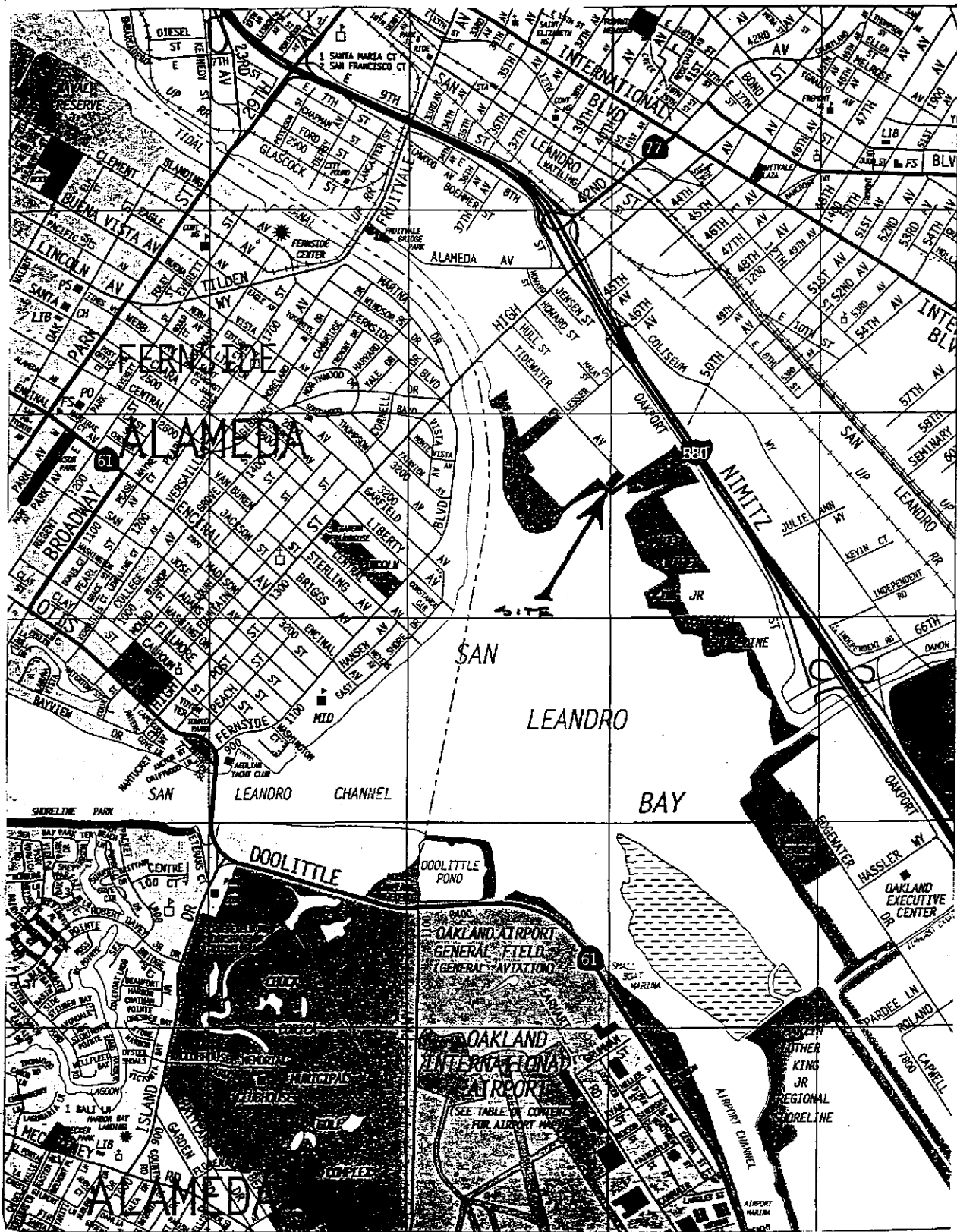


Bennett T Halsted
Project Manager



Samuel H Halsted P.E.
CE 14095

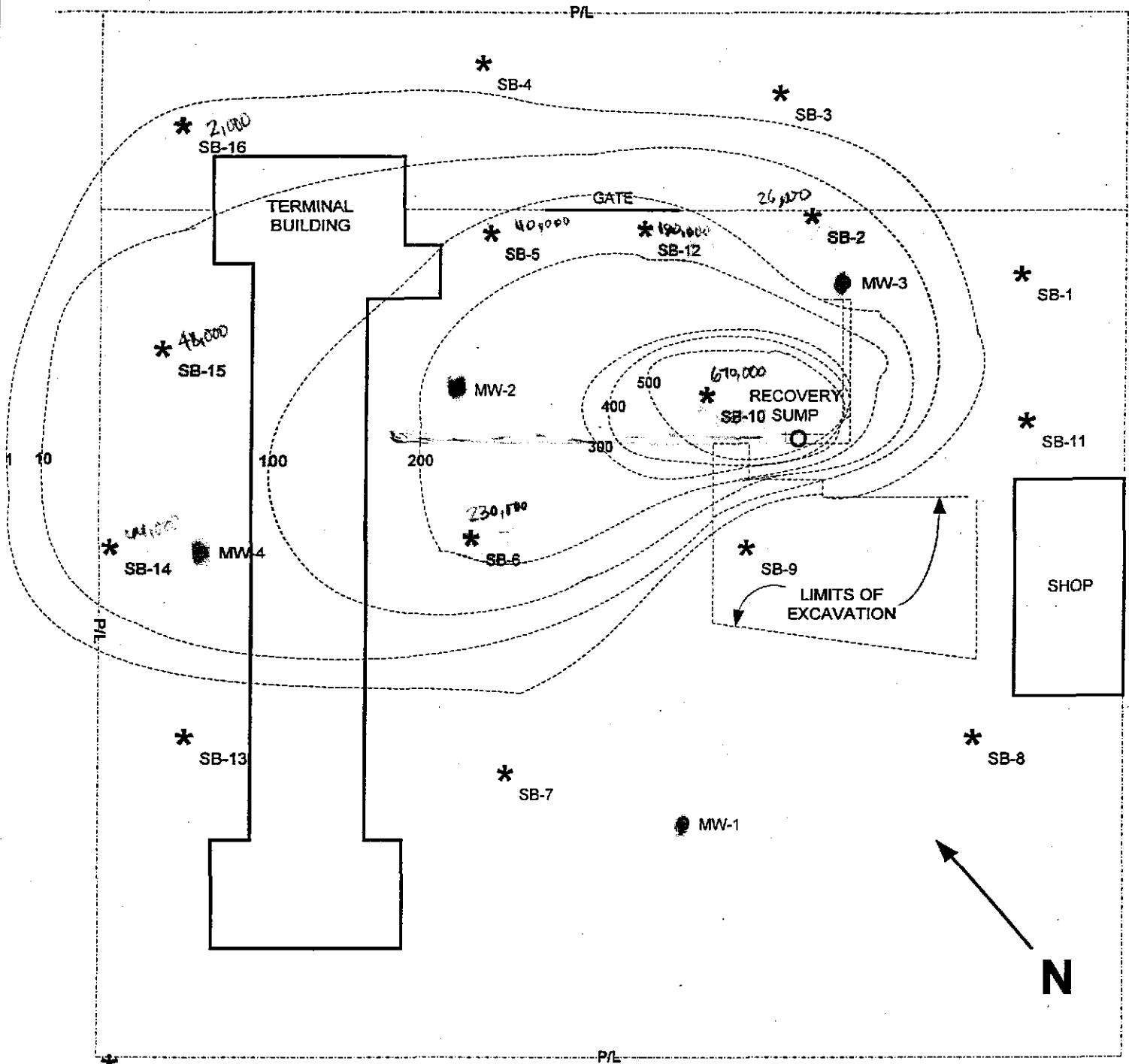
FIGURES



VICINITY MAP
4919 Tidewater Ave., Oakland, CA

DATE	12/21/00	SCALE: NTS
BY:		FIGURE 1
PIERS Environmental Services Inc. 1330 S. Bascom Ave., # F, San Jose, CA 95128		

TIDEWATER AVENUE



* BORING LOCATIONS
 ----- GROUNDWATER ISO-CONCENTRATION
 LEVELS FOR TPH/d IN PPM

SITE PLAN		
4919 Tidewater Ave., Oakland, CA		
DATE	12/21/00	SCALE: NTS
		BY:
<i>PIERS Environmental Services Inc.</i>		FIGURE 2
1330 S. Bascom Ave., # F, San Jose, CA 95128		

SSI 4919

BORING LOGS

Client Di Salvo Trucking		Date 12-20-00
Location 4919 Tidewater Ave. Oakland		Site Map
Driller Vironex		
Method 2" Geo PROBE	Sampler BH	
Loader BH	Permit = N/A	
Inspector N/A	Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	Portland Cement
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			CL	HL odor	
SB22	6				Silty Sandy CLAY, Dark w/ decomp. organic material	
	8			PH CH	Peat Bay mud	
					BoH	

Total Depth: 8' | Water Level: ±3' | Sanitary Seal: Portland Cement

Well/Boring Designation: SB-2

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger Btt	
Inspector N/A	
Agency N/A	Permit = N/A
Agency N/A	Agency N/A

Sample #	Depth	Blows Per 5 Inches	Moisture	Sample USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	Portland Cement
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			CL	Silty, Sandy CLAY, 30% silt some organics	
	8			CH	No HC odor Bay mud	
					Both	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-3

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	Permit # N/A
Agency N/A	Agency N/A

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample USGS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			CC	Silty CLAY, 30% silt, 10% gravel soft, wet	Portland Cement
				kt	No H.C. Odor Bay mud	
	8			BH		

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-4

Client Di Salvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH Permit # N/A	
Inspector N/A Agency N/A	

Sample #	Depth	Blows Per 5 Inches	Moisture	Samples USFS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	Portland Cement
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			CL	HC odor silty clay, 40% silt, 20% f. sand, organic material	
SB5265				ML	Sandy SILT w/ 25% f. sand, organics	
	8			gt	Bay mud	
					BH	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-5

Client Di Salvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 5 Inches	Moisture	Samples USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			SM	Silty SAND. v. Fin, loose wet w/ some organics	Portland Cement
SB67	8			ML	Sandy silt, w/ 15% clay, 30% silt w/ some organics	
				GC	Bay mud	
					Bottom	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-6

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Soils	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	Portland Cement
	6			CL ML SM CL MH	clay Silty sandy CLAY w/ organics Sandy SILT	
	8				Silty SAND Sandy CLAY No H.C. odor Bay mud	
					Bott	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-7

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	Permit # N/A
Agency N/A	Agency N/A

Sample #	Depth	Blows Per 6 Inches	Moisture	Samples USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil.	
	6			PH	High organics Peat w/ decomposed wood. 30% silt or sand.	
	8			SM CL CH	Silty SAND w/ some clay and organics Silty SANDY CLAY Bay mud No H.C. odor	Portland Cement
					BOTH	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-8

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH Permit = N/A	
Inspector N/A Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Samples USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	Portland Cement
	4				Fill material consisting of imported sand	
	6					
	8					
					BoH	
					No H.G. odor	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-9

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Veronex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample Uses	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	Portland Cement
	6				Sandy SILT, dark, w/ organic	
	8				Silty SAND, 35% silt Silty, sandy, CLAY Bay mud	
					Bott	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland cement

Well/Boring Designation: SB-10

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	Permit # N/A
Agency N/A	Agency N/A

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			PA	high organic PEAT w/ decomp. wood 80% F. sand, 20% silt wet	Portland Cement
				SM	silty SAND. w/ some organic	
				CL	silty, sandy, clay	
				MH	Bay mud	
	8				No H.C odor	
					BOTH	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-11

Client Di Salvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			ML	↓ H.C. odor Sandy SILT, w/ decomp. organic mat. 20% F. sand 15% clay	Portland Cement
SB-12-05'				ML	Silty CLAY soft, wet, 25% silt, 20% F. sand.	
	8			ST	Bay mud	
					BOH	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-12

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Loader BH Permit = N/A	
Inspector N/A Agency N/A	

Sample #	Depth	Blows Per 5 Inches	Moisture	Sample Uses	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			ML	Sandy SILT w/ some organics 25% sand, 15% clay, dark wet sect.	Portland Cement
	8			CL kft	Silty clay Bay mud	
					Both No H.C. odor	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-13

Client Di Salvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Sample USCS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	
	6			MC SM	H.C. odor Sandy, clayey SILT, dark w/ decomp. organics Silty, clayey SAND	Portland Cement
SB14E7	8			CL MH	Silty CLAY Bay mud	
					Both	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-14

Client DiSalvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler Bt	
Loader Bt	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Samples USFS	Description of Subsurface Materials	Completion Data
	2				Asphalt/Concrete Base Material	
	4				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil	Portland Cement
	6			CL	↓ H.C. odor Silty CLAY w/15% sand dark, soft, wet	
SB1506				FM	Silty SAND, w/10% clay & some organic material	
	8			CL ctt	Silty, Sandy CLAY, soft wet Bay mud	
					Bott	

Total Depth: 8' Water Level: ±3' Sanitary Seal: Portland Cement

Well/Boring Designation: SB-15

Client Di Salvo Trucking	Date 12-20-00
Location 4919 Tidewater Ave. Oakland	Site Map
Driller Vironex	
Method 2" Geo PROBE Sampler BH	
Logger BH	
Inspector N/A	
Agency N/A	

Sample #	Depth	Blows Per 6 Inches	Moisture	Samples USCS	Description of Subsurface Materials	Completion Data
					Asphalt/Concrete Base Material	
	2				Fill material consisting of imported sands, gravels, concrete asphalt with mixtures of imported soil ↑	
	4					
					↓ Slight H.C. odor	Portland Cement
	6			CL	Sandy, silty CLAY, 30% silt, 20% F. sand. Dark wet, w/ decomp	
	8			SM CL MH	organics silty, sandy to sandy Silty, sandy CLAY. Bay mud	
					BOH	

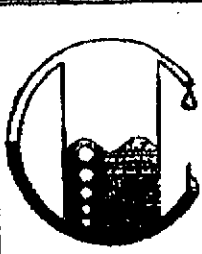
Total Depth: 8' | Water Level: ±3' | Sanitary Seal: Portland Cement

Well/Boring Designation: SB-16

**CHAIN-OF-CUSTODY
ANALYTICAL RESULTS**

Project No.
00368

Site Name/Location DiSalvo Trucking
4419 Tidewater Ave. Oakland



MOBILE CHEM LABS, INC.
1678 FELIZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 949-6884 fax

Consultant Name PIERS Environmental Services
Address 1330 S. Bascom Ave #F
San Jose Ca 95128
Sample Name B. Hulsed

SAMPLE ID NUMBER	DATE	TIME	LAB NO	SAMPLE PRESERVATION			MATRIX			# of Cont.	GRAB/COMP	BTX	TPH-D	TOG(A18.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625
				HCL	ENO	ICE	SOIL	WATER	AIR											
SB1-GW	12-20-00	840						X				X								
SB2-GW		907						X				X								
SB3-GW		915						X				X								
SB4-GW		915						X	3		X	X								
SB5-GW		1015						X				X								
SB6-GW		1106						X				X								
SB7-GW		1120						X				X								
SB8-GW		1140						X				X								
SB9-GW		1200						X				X								
SB10-GW		1210						X				X								
SB11-GW		1220						X				X								
SB12-GW		1240						X				X								
SB13-GW		105						X				X								
SB14-GW		130						X				X								
SB15-GW		145						X				X								
SB16-GW		152						X				X								

Relinquished By: *[Signature]*

Date/Time: 12-20-00 3:30

Received By: *[Signature]*

Comments: BTX = 1 WK TAT

Turn Around: ON SITE

Q: are soil & gw results for diesel filtered & passed thru silica gel? cages: (925) 975-8135



MOBILE CHEM LABS INC.

1678 Relliz Valley Road • Lafayette, CA 94549
 Phone (925) 945-1266 • Fax (925) 943-6884

00368\2131\014129

Piers Environmental Services
 1330 S. Bascom Avenue, Suite F
 San Jose, CA 95128
 Attn: Ben Halsted
 Project Manager

Date Sampled: 12-20-00
 Date Received: 12-20-00
 Date Analyzed: 12-20-00

Sample Number	Sample Description	Detection Limit ppb	WATER
			Total Petroleum Hydrocarbons as Diesel ppb
V120001	SB1-GW	100	<100
V120002	SB2-GW	100	<u>26,000</u>
V120003	SB3-GW	100	<100
V120004	SB4-GW	100	<100
V120005	SB5-GW	100	<u>110,000</u>
V120006	SB6-GW	100	<u>230,000</u>
V120007	SB7-GW	100	<100
V120008	SB8-GW	100	<100

Disalvo Trucking
 4919 Tidewater Ave.
 Oakland, CA
 Proj #:00368

QA/QC: Duplicate Deviation on V120005 is 8.3 % & V120001 is 3.6 %
 Spike Recovery on V120002 is 101 % & V120001 is 83 %

Note: Analysis was performed using EPA method 3550 modified and
 TPH LUFT (8015).
 (ppb) = (ug/l)

MOBILE CHEM LABS

Ronald G. Evans
 Ronald G. Evans
 Lab Director



MOBILE CHEM LABS INC.

1678 Relliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

00368\2131\014129

Piers Environmental Services
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128
Attn: Ben Halstad
Project Manager

Date Sampled: 12-20-00
Date Received: 12-20-00
Date Analyzed: 12-20-00

Sample Number	Sample Description	Detection Limit ppb	WATER Total Petroleum Hydrocarbons as Diesel ppb
---------------	--------------------	------------------------	-----------------------------------------------------------

DiSalvo Trucking
4919 Tidewater Ave.
Oakland, CA
Proj #:00368

V120009	SB9-GW	100	<100
V120010	SB10-GW	100	670,000
V120011	SB11-GW	100	<100
V120012	SB12-GW	100	190,000
V120013	SB13-GW	100	<100
V120014	SB14-GW	100	44,000
V120015	SB15-GW	100	48,000
V120016	SB16-GW	100	2,000

QA/QC: Duplicate Deviation on V120005 is 8.3 % & V120001 is 3.6 %
Spike Recovery on V120002 is 101 % & V120001 is 83 %

Note: Analysis was performed using EPA method 3550 modified and
TPH LUFT (8015).
(ppb) = (ug/l)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

1678 Relliz Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

00368\2131\014129

Piers Environmental Services
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128
Attn: Ben Halsted
Project Manager

Date Sampled: 12-20-00
Date Received: 12-20-00
Date Analyzed: 12-22-00

Sample Number

V120004

Sample Description

Disalvo Trucking
4919 Tidewater Ave.
Oakland, CA
SB4-GW WATER

ANALYSIS -----

	Detection Limit ----- ppb	Sample Results ----- ppb
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC: Duplicate Deviation is 0 %
Spike Recovery is 91 %

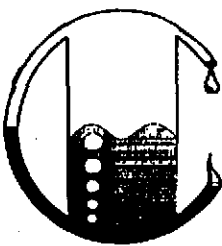
Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTEX distinction.
(ppb) = (ug/l)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Project No.
00368

Site Name/Location
Di Salvo Trucking
4919 Tidewater Ave
Oakland Ca



MOBILE CHEM LABS, INC.
1673 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-6884 fax

Consultant Name
PIER Environmental Services
Address
1350 S. Bascom Ave # F
San Jose Ca 95128

Sampler Name
B. Halsted

SAMPLE ID NUMBER	DATE	TIME	LAB ID#	SAMPLE PRESERVATION			MATRIX			# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOG(418.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625					
				HCL	HNO3	ICE	SOIL	WATER	AIR																
SB206.1	12-20-00	9:50					X					X													
SB506.5		10:10										X													
SB607		10:55										X													
SB1006.1		12:00										X													
SB1206.5		12:30										X													
SB1407		1:20										X													
SB1506.1		1:35					✓			✓		X													
SB1406.5	12-20-00	2:10					X			1		X													

Relinquished By: *SAH*

Date/Time
12/20/00 3:15 pm

Received By: *Bill Brown*

Comments:

Turn Around
5 day Turn
@ \$40 ea.

Relinquished By:

Date/Time

Received By:



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1678 Reliez Valley Road • Lafayette, CA 94649
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00368\2131\014129

Piers Environmental Services
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San Jose, CA 95128
Attn: Ben Halsted
Project Manager

Date Sampled: 12-20-00
Date Received: 12-20-00
Date Analyzed: 12-22-00

Sample Number	Sample Description	Detection Limit ppm	SOIL Total Petroleum Hydrocarbons as Diesel ppm
	Disalvo Trucking 4919 Tidewater Ave. Oakland, CA Proj #:00368		
V120017	SB2 @ 6'	10.0	<10
V120018	SB5 @ 6.5'	10.0	<10
V120019	SB6 @ 7'	10.0	<10
V120020	SB10 @ 6'	10.0	<10
V120021	SB12 @ 6.5'	10.0	<10
V120022	SB14 @ 7'	10.0	<10
V120023	SB15 @ 6'	10.0	<10
V120024	SB16 @ 6.5'	10.0	14

QA/QC: Duplicate Deviation on V120024 is 17 %
Spike Recovery on V120017 is 96 %
LCS Recovery is 73 %

Note: Analysis was performed using EPA method 3550 modified and
TPH LUFT (8015).
(ppm) = (mg/kg)

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Ronald G. Evans
Lab Director