HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

March 6,2000

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Mr. William Perrie 128 Dartmouth Place Benicia, CA 94510 STID 4160

Re: MAC Auto Repair, 905 W. Grand Avenue, Oakland, CA 94607

Dear Mr. Perrie:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

Groundwater samples from the most recent sampling on September 7, 1999 from boreholes B-1, B-2, B-3 and B-4 contained up to 378 ppb TPH(diesel), 720 ppb TPH(gas), 3.1 ppb benzene, 10.0 ppb toluene, 34.0 ppb ethylbenzene, 18 ppb total xylenes and 54 ppb MTBE.

Soil samples from the most recent sampling on September 7, 1999 from boreholes B-1, B-2, B-3 and B-4 contained up to 6.5 ppm of TPH(diesel).

If you have any questions, please contact me at (510)567-6774. Thank you.

Laray Seto

Semior Hazardous Materials Specialist

HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

REMEDIAL ACTION COMPLETION CERTIFICATION ENVIRONMENTAL PROTECTION (LOP)

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

March 6, 2000

Mr. William Perrie 128 Dartmouth Place Benicia, CA 94510 STID 4160

RE: MAC Auto Repair, 905 W. Grand Avenue, Oakland, CA 94607

Dear Mr. Perrie:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above describe location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely

Mee Lina Tund

Director of Environmental Health Services

cc: Chief, Hazardous Materials Division - files

Larry Seto, ACDEH

Chuck Headlee, RWQCB

Dave Deaner, SWRCB (w/ Case Closure Summary)

Leroy Griffin, City of Oakland Fire Services, 1603 Martin Luther King, Oakland, CA 94612

Files

Mr. William Perrie, 128 Dartmouth Place, Benicia, CA 94510 March 6, 2000 Page 2 of 2

Cc: Chief, Hazardous Materials Division - files

Larry Seto, Environmental Health

Captain Steve McKinley, City of Alameda Fire Department

Chuck Headlee, RWQCB

Dave Deaner, SWRCB (w/case closure summary)

Files

Enclosures:

1. Case Closure Letter

2. Case Closure Summary

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. **AGENCY INFORMATION**

Date:

January 18, 2000

Agency name: Alameda County-HazMat

· Address:

1131 Harbor Bay Pkwy.

City/State/Zip: Alameda, CA 94502

Responsible staff person: Larry Seto

Phone: Title:

(510) 567-6774 Senior HMS

II. CASE INFORMATION

CAUFORNIA REGIONAL WATER

Site facility name: MAC Auto Repair

FEB 9 \$ 2000

Site facility address: 905 W. Grand Avenue, Oakland, CA 94607

QUALITY CONTROL BOARD

RB LUSTIS Case No:

Local Case No./LOP

4160

URF filing date: 11-8-1999

SWEEPS No: N/A

Responsible Parties:

Addresses:

Phone Numbers:

William Perrie, Property Owner

128 Dartmouth Place Benicia, CA 94510

707-745-5522

Tank No	Size in Gallons	Contents:	Closed in-place or Removed?	Date:
1	5,000	Fuel	Removed	2-2-99
2	6,000	Fuel	Removed	2-2-99
3	8,000	Fuel	Removed	2-2-99
4	250	Waste Oil	Removed	2-2-99

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Hole in one of the tank

Monitoring Wells installed? No Number: N.A.

Site characterization complete? Yes

Date approved by oversight agency:

Proper screened interval? N.A.

Highest GW depth below ground surface: 14.3' in 9/99 Lowest depth: 18.1' in 9/99

Flow direction: assumed southeasterly based on groundwater levels measurements from temporary borings B-1, B-2 & B-3 on 9-7-99

Most sensitive current use: commercial/residential

Are drinking water wells affected? No Aquifer Name:

Is surface water affected? No Nearest affected SW name: ---

Off-site beneficial use impacts (addresses/locations): Unknown

Report(s) on file? Where is report(s) filed? Alameda County

> 1131 Harbor Bay Pkwy. Alameda, CA 94502

Oakland Fire Department 1603 Martin Luther King

Oakland, CA 94612

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	Action (Treatment or Disposal /destination)	<u>Date</u>
Underground tank	5,000 gallons	Disposed, Erickson, Richmond, CA	2-4-99
Underground tank	6,000 gallons	Disposed, Erickson, Richmond, CA	2-4-99
Underground tank	8,000 gallons	Disposed, Erickson, Richmond, CA	2-4-99
Underground tank	250 gallons	Disposed, Erickson, Richmond, CA	2-4-99

III. RELEASE AND SITE CHARACTERIZATION INFORMATION Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before After 3	Water (ppb) Before ² After ⁴
TPH(diesel)	NA 6.5	NA 378
TPH(gas)	ND ND	46,000 720
Benzene	ND ND	1,280 3.1
Toluene	ND ND	3,360 10.0
Ethylbenzene	ND ND	1,180 34.0
Total Xylenes	0.021 ND	8,470 18
MTBE	ND ND	ND 54
Oil and Grease	ND^{1a} ND	NA ND

ND - Non-Detect

NA - Not Analyzed

- 1 Samples collected on the sidewalls of the excavation on 2-4-99 after tank removal
- 1a Sample collected from the below the waste oil tank on 2-4-99
- 2 Sample collected from below tank #2 on 2-4-99
- 3 Samples collected from boreholes on 9-7-99
- 4 Samples collected from boreholes on 9-7-99

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?

Does corrective action protect public health for current land use? Yes

Site management requirements: None

Should corrective action be reviewed if land use changes? Yes if land use changes from industrial/commercial

Monitoring wells decommissioned: NA

List enforcement actions taken: None

List enforcement actions rescinded: None

LOCAL AGENCY REPRESENTATIVE DATA

Name:

Signature:

Reviewed by Name: Eva Chu

Signature:

Title: Senior HMS

Date: 1/18/2000

Title: Hazardous Materials Specialist

Date: 1/11/00

Name: Thomas Peacock

Signature:

Title: Supervising HMS

Date:

Pg 4

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: Concur

RWQCB Staff Name: Chuck Headlee

Title: Engineering Geologist

Signature

Date: 2/9/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

Carel Headler

According to the current property owner, the site was developed in the mid 1960's that included the installation of the underground storage tanks. The site has been used as a gas station, tire shop, auto repair shop/car wash. On February 2, 1999 four underground storage tanks were removed from the site. The tank removed included a 5,000 gallon fuel tank, 6,000 gallon fuel tank, 8,000 gallon fuel tank, and a 250 gallon waste oil tank. Soil samples were collected on the sidewalls of the fuel tank excavation and underneath the bottom of the waste oil tank. The laboratory report indicated all the soil samples collected from the walls of the fuel tank excavation were non-detect for TPH(g), benzene, toluene, ethylbenzene and MTBE. The north wall contained 0.021 ppm total xylenes. (See Table 1) The soil sample collected underneath the waste oil tank was non-detect for oil and grease. A groundwater sample collected from the fuel tank excavation contained 46,000 ppb TPH(g), 1,280 ppb benzene, 3,360 ppb toluene, 1,180 ppb ethylbenzene, 8,470 ppb total xylenes and ND for MTBE. (See Table 2)

To further investigate the subsurface conditions, four exploratory soil borings were advanced on September 7, 1999 near the location of the former underground tanks. (Figure 2) A ground water and soil sample was collected from each borehole. The soil samples collected at 16.5' contained up to 6.5 ppm TPH(d), and were ND for TPH(g), TPH(mo),BTEX and MTBE. (SeeTable 3)

The groundwater samples contained up to 378 ppb TPH(diesel), 720 ppb TPH(gas), 3.1 ppb benzene, 10.0 ppb toluene, 34.0 ppb ethylbenzene, 18 ppb total xylenes, 54 ppb MTBE and ND for oil and grease. (See Table 4) A reconnaissance groundwater elevation plot using an arbitrary datum was made. Groundwater levels may not have completely stabilized during the short time the boreholes were open, and the water level from B-4 was not used. The estimated groundwater flow direction is southeasterly.

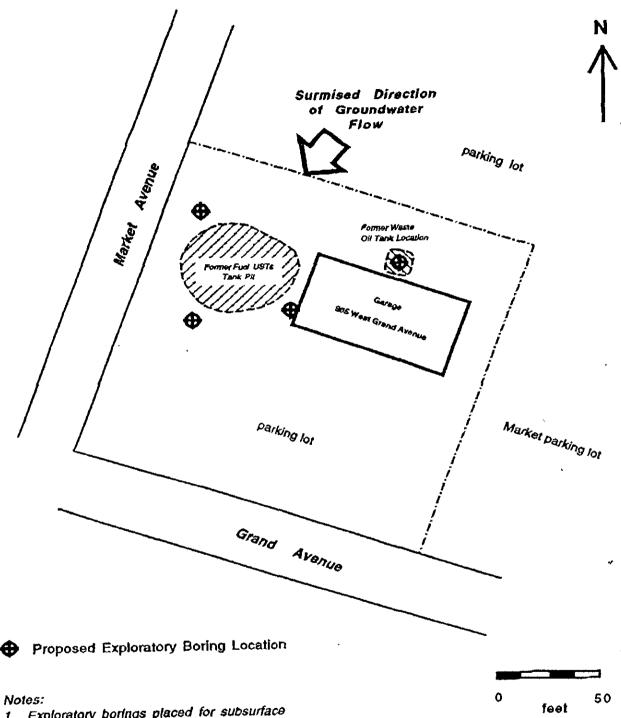
The soil sample collected below the waste oil tank and the soil and groundwater samples collected from B-4, adjacent to the waste oil tank were not tested for the presence of HVOCs and SVOC. Both the soil and groundwater samples were non-detect for TPH-mo, therefore most likely HVOC and SVOC will not be a concern.

The source of the subsurface contamination has been removed. Very low concentrations of contaminants remain in the immediate former underground tank pit. Groundwater flow is southeasterly at a relatively flat gradient. The contaminate plume appears contained within the site. While residual concentrations of contaminants remain, the concentrations are anticipated to decline through the natural biodegradation processes.

In summary, this office is recommending that this case be closed for the following reasons:

- 1) The leak has been stopped and ongoing sources removed
- 2) The site has been adequately characterized
- 3) Little groundwater impact currently exits
- 4) No water wells, deeper drinking water aquifers, surface water or other sensitive receptors are likely to be impacted
- 5) The site presents no significant risk to human health

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7

1. Exploratory borings placed for subsurface reconnaissance soil and groundwater sampling, located about 10 feet from fuel UST pit excavation edge.

2. Waste oil tank pit boring to be advanced through center of former tank pit.

Proposed Exploratory Boring Locations

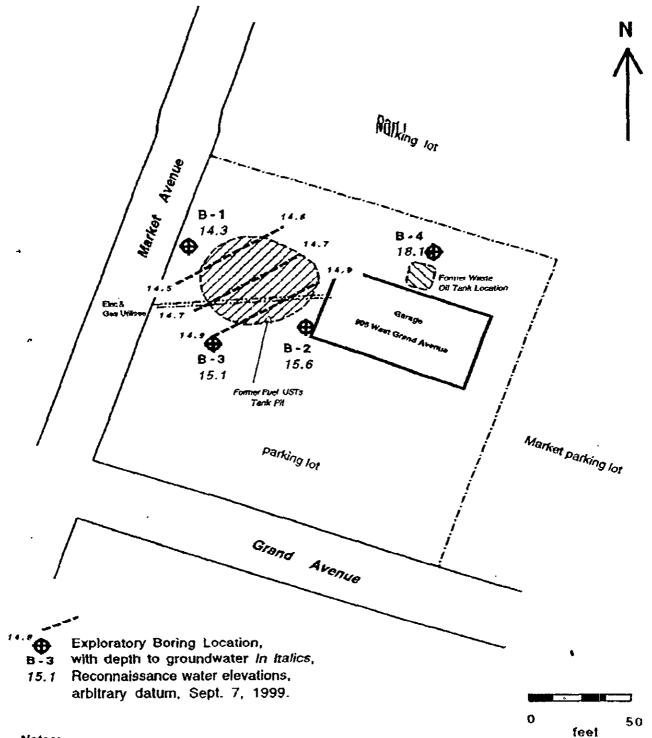
Garage Site 905 Grand Avenue Oakland, CA Project No. Grand Scale: 1" = 50' Date: Sept., 1999

Figure 1

DELTA 🖾

ENVIRONMENTAL LABORATORIES, Ltd. Benecia, CA

The comment



Notes:

1. Depth to groundwater taken in temporally cased boreholes; groundwater levels may not have been completed stabilized, and represent reconnaissance data only. B-4 data not used in groundwater elevation plot, see report text.

2. Field revised 9/7/99.

DELTA 🔼

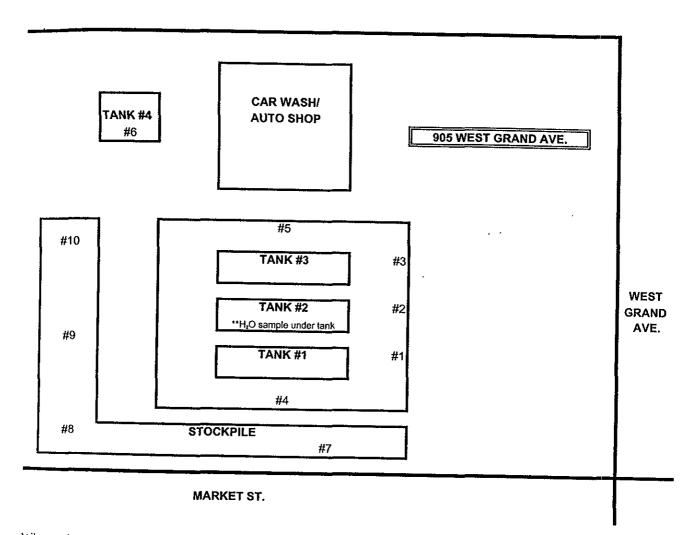
ENVIRONMENTAL LABORATORIES, Ltd. Benecia, CA

Exploratory Boring Locations

Garage Site 905 Grand Avenue Oakland, CA Scale: 1" ~ 50' ,Date: Sept., 1999

Project No. Grand

Figure 2



soil samples are listed in numerical order according to the chain of custody. One water sample was collected under the middle of tank #2.

──North

ENVIRONMENTAL LABORATORIES, Ltd

American Construction & **Environmental Services/** 905 West Grand Oakland, CA

Attention: Bailey Neff

4 hour Rush

Client Project ID: 905 West Grand **CAR WASH**

Ref.: Method R3946400s

5030 GCFID/ 8020

Sampled:

2/4/99

Received: Matrix:

2/4/99 Soil

Analyzed: Reported:

2/5/99 2/5/99

Units:

mg/kg

Laboratory Results for BTEX, MTBE& TPH-G Analysis from Pull tank pt

Analyte	Detection Limit		Results								
		•	Sample ID								
į,	mg/kg	North Wali	NorthWall	North Wall	East Wall	West Wall					
		Tank#1	Tank #2	Tank #3	Tank #1	Tank #3	Method				
i	i					Talk #3	 				
BTEX											
Benzene	0.005	ND	ND								
Toluene	0.005	ND	ND ND	ND ND	ND	ND	8020				
Ethylbenzene	0.005	ND	ND ND	ND	ND	ND	8020				
Total-Xylene	0.005	0.021	ND	ND	ND ND	ND	8020				
			ND	ND ND	ND ND	ND	8020				
MTBE	0.01	ND	ND				T				
				ND	ND	ND	8020				
TPH-Gas	0.050	ND	ND								
				ND	ND	ND	5030/GCFID				

ND:Not Detected(<MDL)

Delta Environmental Laboratories

Hossein Khosh Khoo, Ph.D.

Honein khoshkha

WATER • WASTE WATER • HAZARDOUS WASTE • FUEL • AIR • SOIL



American Construction & Environmental Services/

905 West Grand Oakland, CA

ENVIRONMENTAL Ref.: LABORATORIES, Ltd R3946402s

5030 GCFID/

Method

8020

Client Project ID: 905 West Grand

CAR WASH

Sampled: 2/4/99 Received: 2/4/99

Matrix: Soil

Analyzed: 2/5/99 Reported: 2/5/99

Units: mg/kg

Attention: Bailey Neff

24 hour Rush

Laboratory Results for BTEX, MTBE& TPH-G Analysis from waste oil pit

	Detection	Results		
Analyte	Limit mg/kg	Sample ID		
	9/kg	Center Tank #4		
ВТЕХ				
Benzene	0.005	·· ND		
Toluene	0.005	ND ND		
Ethylbenzene	0.005	ND		
Total-Xylene	0.005	ND ND		
МТВЕ	0.01	ND		
TPH-Gas	0.05	ND		

ND:Not Detected(<MDL)

Delta Environmental Laboratories

Hossein Khosh Khoo, Ph.D.

Hossem Khoshkhar

ENVIRONMENTAL LABORATORIES, Ltd

Client:

American Construction &

Environmental Services 905 West Grand

Oakland CA

Client Project #: 905 West Grand

Car Wash

Ref:

R3946WetChem

Unit mg/Kg Matrix

Soil

Sampled: 2/4/99

Received: 2/4/99 Analyzed: 2/8/99

Reported: 2/8/99

Attention: Bailey Neff

Analytical Results

Kusn		Sample ID:	
Analyte	Detection	Center Tank	
01100	Limit	#4	Method
Oil & Grease	10 mg/Kg	ND	SM 5520 C

ND: Not Detected

H.Khosh Khoo, Ph.D. Laboratory Director/President

Honer Khoshkhar



ENVIRONMENTAL LABORATORIES, Ltd Ref.: R3958400w

Method

5030 GCFID/

8020

2/4/99 Sampled:

Received: 2/4/99 Matrix: Water

Analyzed: 2/5/99 Reported: 2/5/99

Units: ug/L (ppb)

American Construction & Environmental Services/ 905 West Grand Oakland, CA

Client Project ID: 905 West Grand CAR WASH

Attention: Bailey Neff

24h

Laboratory Results for BTEX, MTBE& TPH-G Analysis

fuel tank pt

	Detection	Results	
Analyte	Limit	Sample ID	
	ug/L (ppb)		
		Tank #2 H2O Sample	
BTEX			
Benzene	5	1280	
Toluene	5	3360	
Ethylbenzene	5	1180	
Total-Xylene	5	8470	
MTBE	10	ND ND	
TPH-Gas	50	46,000	

ND:Not Detected(<MDL)

Delta Environmental Laboratories

Hossein Khosh Khoo, Ph.D.

Hossem Khrohkha



William Perrie 128 Dartmouth Place Benicia, CA 94510

> Client Project ID: 905 West Grand

Oakland

ENVIRONMENTAL LABORATORIES, Ltd Ref.: R4379400s

Table 3

Method 5030 GCFID/

8020/8015M/ 8260

Sampled: 9/7/99

Received: 9/7/99

Matrix: Soil

Analyzed: 9/15-17/99

Reported:

9/20/99

Units: mg/kg

Laboratory Results for TPH + BTEX and MTBE Analysis

Analyte	Detection Limit						
-	mg/kg	B-1-3	B-2-3	B-3-3	B-4-3	Method	
		16.5'	16.5'	16.5'	16.5'		
BYEV				.			
BTEX	0.005	ND	ND	ND	NID.	2020	
Benzene Toluene	0.005	ND	ND ND	ND ND	ND ND	8020 8020	
Ethylbenzene	0.005	ND	ND	ND	ND	8020	
Total-Xylene	0.005	ND	ND ND	ND	ND ND	8020	
MTBE	0.010	NES	ND	NID	NID	0260	
MIRE	0.010	ND	ND	ND	ND	8260	
	0.050	115				5000/005/5	
TPH-Gas	0.050	ND	ND	ND	ND	5030/GCFID	
TPH-Diesel	5	6.1	5.5	ND	6.5	8015M	
трн-м.о.	5	ND	ND	ND	ND	8015M	

ND:Not Detected(<MDL)

Delta Environmental Laboratories

Hossein Khosh Khoo, Ph.D.



William Perrie 128 Dartmouth Place Benicia, CA 94510 ENVIRONMENTAL LABORATORIES, Ltd R4378400w

Method

5030 GCFID/

8020/8015M/ 8260

Table 4

Sampled:

9/7/99

Received: Matrix:

9/7/99

Matrix:

Water

Analyzed: Reported:

9/15,17/99 9/20/99

Units:

ug/L

Laboratory Results for TPH + BTEX and MTBE Analysis

Client Project ID:

905 West Grand

Oakland

	Detection		Results Sample ID							
Analyte	Limit									
	ug/L						Method			
		B-1	B-2	B-3	B-4	ТВ				
BTEX							,			
Benzene	0.5	ND	ND	3.1	ND	ND	8020			
Toluene	0.5	10	ND	6.0	ND	ND	8020			
Ethylbenzene	0.5	34	27	16	ND	ND	8020			
Total-Xylene	0.5	ND	ND	18	ND	ND	8020			
МТВЕ	5	ND	ND	54	ND	ND	8260			
TPH-Gas	50	380	290	720	ND	ND	5030/GCFID			
TPH-Diesel	100	378	180	138	ND	79	8015M			
ТРН-М.О.	200	ND	ND	ND	ND '		8015M			

ND:Not Detected(<MDL)

Delta Environmental Laboratories

Hossein Khosh Khoo, Ph.D.

Project No. MAC Boring/Well No. B-1 Client: MAC Auto Date Drilled: Sept. 7, 1999

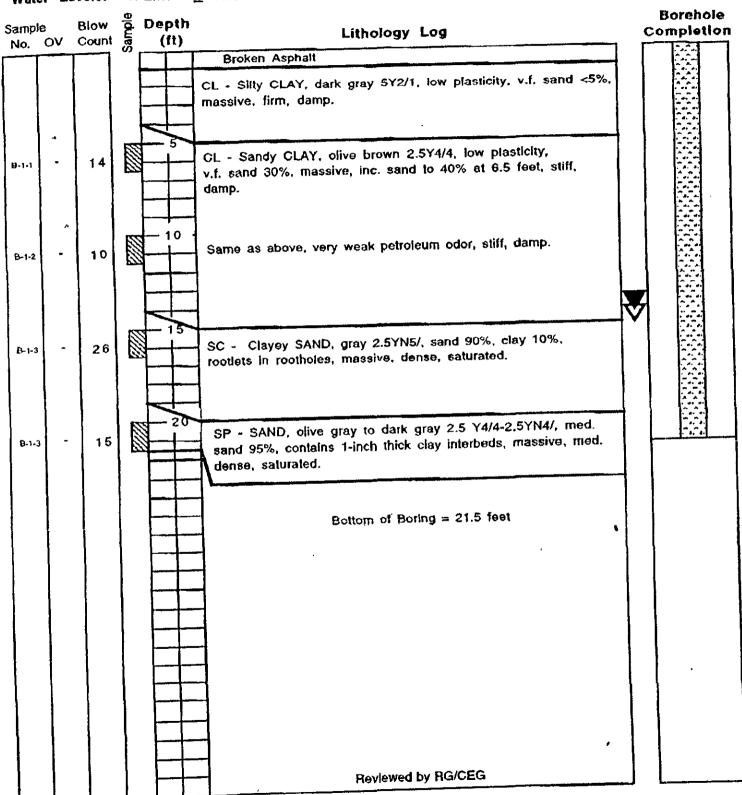
Location: 905 W. Grand Ave, Oakland, CA Logger: CMP

Drilling Method: 8" OD Hollowstem Permit: Ala. County Pub. Wrks.

Water Levels: 1st Enc: 15'+ Static: 14.30' @ 10:10

Weil Installed: No Total Depth: 21.5

Cement Grout Seal: 21.5' to surface



Delta Environmental Laboratories, Benecia, CA

Project No. MAC Boring/Well No. B-2 Client: MAC Aulo Date Drilled; Sept. 7, 1999

Location: 905 W. Grand Ave, Oakland, CA Logger: CMP

Drilling Method: 8" OD Hollowstem Permit: Ala. County Pub. Wrks.

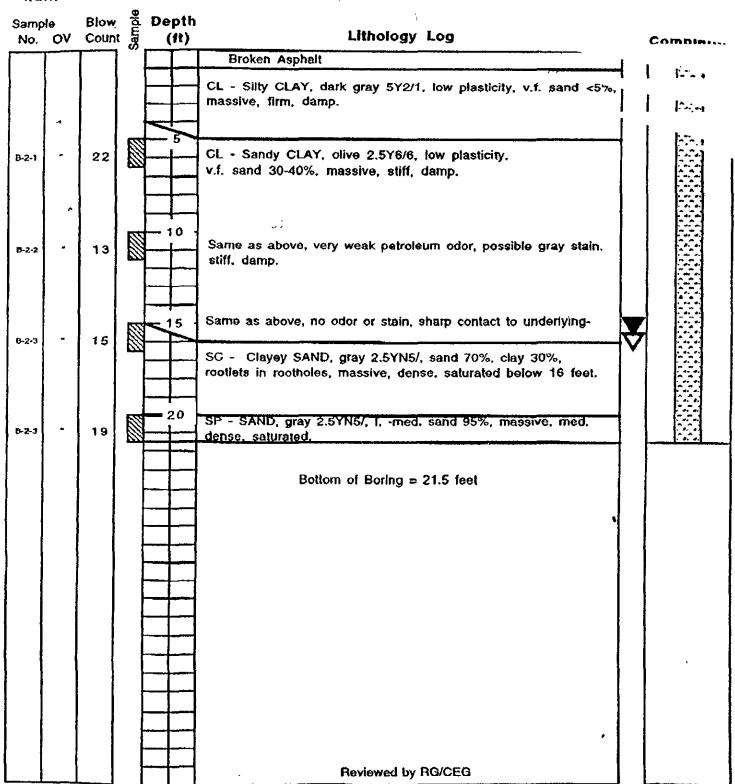
Water Levels: 1st Enc: 16'+ Static: 15.65' @ 11:16

GAPPE.

Well Installed: No

Total Dyp.

Cement Grout Seal: 21.0 ...



Delta Environmental Laboratories, Benegla, CA

Exploratory Boring Log

Project No. MAC Boring/Well No. B-3 Client: MAC Auto, Date Drilled: Sept. 7, 1999

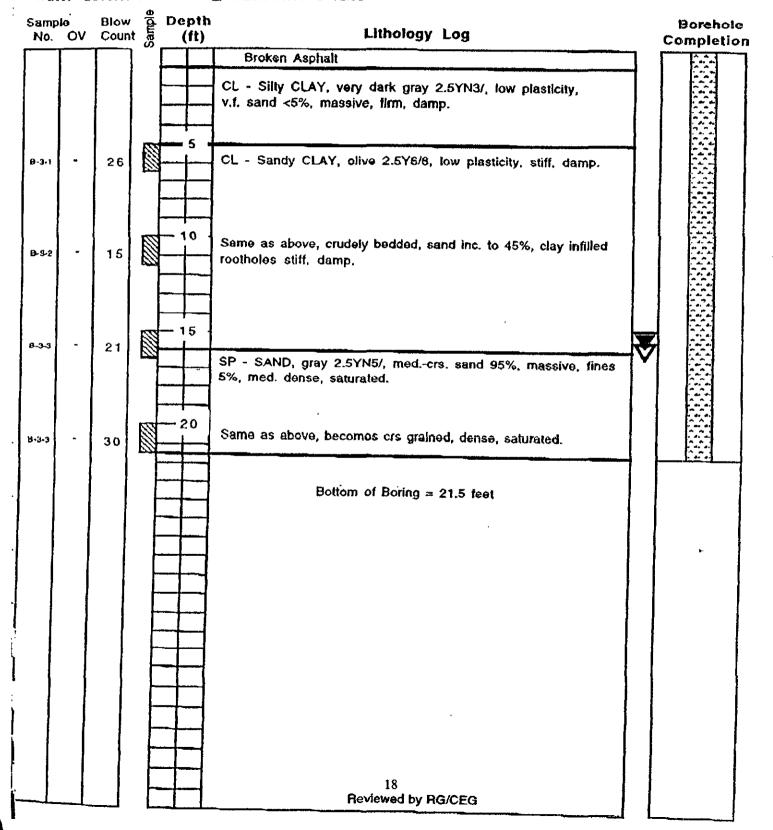
Location: 905 W. Grand Ave, Oakland, CA Logger: CMP

Drilling Method; 8° OD Hollowstem Permit: Ala. County Pub. Wrks.

Water Levels: 1st Enc: 16'±. Static: 15.16' @ 12:08

Well Installed: No Total Depth: 21.5'

Cement Grout Seal: 21.5' to surface



Project No. MAC Boring/Well No. B-4 Client: MAC Auto Date Drilled: Sept. 7, 1999

Location: 905 W. Grand Ave, Oakland, CA Logger; CMP

Drilling Method: 8" OD Hollowslem Permit: Ala. County Pub. Wrks.

Well Installed: No Total Depth: 21.5'

Cement Grout Seal: 21.5' to surface

Water Levels: 1st Enc. 18' Static: 18.95' @ 18:26

Water Levels, 1st Linc. 10 T Simile. 10.33 & 10.10								
	Sampl No.	ov Vo	Blow Count	Sample	Depth (ft)	Lithology Log		Borehole Completion
	B-4-7	4	27			Surface Fill CL - Sandy CLAY, yellowish brown 10YR5/6, low plasticity, roots, hint crude bedding, very stiff, damp. Same as above, very stiff, damp.		
Provided Provided 9 "-	B-4-2	,	22		1D	Same as above, sand f-crs. 45%, locally up to 55%, massive, stiff, damp.		
# ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	B-4-3	-	17		15	SC-CL - Clayey SAND to Sandy CLAY, yellowish brown 10YR5/6, clay low plasticity, sand varies 40-70% and inc. with depth. Infilled rootholes, stiff-med. dense, moist.	¥	
,	8-4-4	-	12		20	SP - SAND, dark gray 5Y2/1, fine sand 90%, massive, loose, saturated, lost part of sample.		
						Botlom of Boring = 21.5 feet; water entering borehole slowly		
						Reviewed by RG/CEG		