

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

March 31, 2004

Mr. Johnny Houston  
Neighborhood Laundromat  
3838 West St.  
Oakland, CA 94609

Dear Mr. Houston:

Subject: Fuel Leak Site Case Closure Neighborhood Laundromat, 3838 West St.,  
Oakland, CA 94609; Case No. RO0000242; Underground Storage Tank

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 Health (ACEH) 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:

- TPHg at 190 ppm, ethyl benzene at 0.77 ppm and xylenes at 0.53 ppm remain in soil at this site.
- TPHg at 1400 ppb remain in groundwater at this site.

If you have any questions, please call Barney Chan at (510) 567-6765. Thank you.

Sincerely,

Donna L. Drogos, P.E.  
LOP Program Manager

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

cc: Ms. Betty Graham (w/enc), SFRWQCB  
Mr. Toru Okamoto (w/enc), SWRCB  
Mr. Leroy Griffin, (w/enc), City of Oakland Fire Department  
B. Chan, D. Drogos (w/enc), R. Garcia LaGrille (w/enc)

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Dear Mr. Houston:

Subject: Fuel Leak Site Case Closure Neighborhood Laundromat, 3838 West St.,  
Oakland, CA 94609; Case No. RO0000242; Underground Storage Tank

This letter confirms the completion of a site investigation and remedial action for the 550 gallon gasoline underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) 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, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

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

Sincerely,

Mee Ling Tung  
Director  
Alameda County Environmental Health

**CASE CLOSURE SUMMARY  
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

**I. AGENCY INFORMATION**

Date: 2/11/04

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6765
Responsible Staff Person: Barney Chan	Title: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Neighborhood Laundromat		
Site Facility Address: 3838 West St., Oakland 94608 aka 733 Apgar St., Oakland 94609		
RB Case No.: ---	Local Case No.: STID # 4262	LOP Case No.: RO 0000242
URF Filing Date: 1/30/92	SWEEPS No.: ---	APN: 012-0964-029-00
<b>Responsible Parties</b>	<b>Addresses</b>	<b>Phone Numbers</b>
Mr. Johnny Houston	3838 West St., Oakland, CA 94608	510-547-5465

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	550	Gasoline	Removed	1/8/92
	Piping		some removed with tank, some capped and closed-in place	1/8/92

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: holes observed in tank		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 3	Proper screen interval? Well 1 screened from 7.69- 12.6' bgs, wells 2 & 3 screened from 5-15' bgs
Highest GW Depth Below Ground Surface: 4.52' bgs	Lowest Depth: 9.45' bgs	Flow Direction: south, measured only once
Most Sensitive Current Use: Potential drinking water source.		
Summary of Production Wells in Vicinity: No water supply wells were identified within ¼-mile of the subject site.		
Are drinking water wells affected? No	Aquifer Name: Oakland Sub Area, East Bay Plain	
Is surface water affected? No	Nearest SW Name: Lake Merritt located approx. 1 1/3 mi. southeast	
Off-Site Beneficial Use Impacts (Addresses/Locations): none identified		

Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department
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TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1-550 gallon	Disposed at H & H Ship Service Co. San Francisco, CA	1/8/92
Piping	Unknown	Some removed during tank removal, some capped and left in place	1/8/92
Oil and Water	650 gallons	Disposed at H & H Ship Service Co. San Francisco, CA	1/8/92
Soil	Unknown	Presumed reused to backfill tank pit	

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments for additional information on contaminant locations and concentrations)				
Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	190	190	26,000	1400
Benzene	<0.025	<0.25	5.8	<1
Toluene	<0.025	<0.25	85	<1
Ethyl Benzene	0.77	0.77	180	<1
Xylenes	0.53	0.53	58	<1
MTBE	<2.5	<2.5	<250	<2
*Oxygenates: TAME, ETBE, DIPE, TBA	----	----	<2, <2, <2, <10	<2, <2, <2, <10
Lead	21	21	NA	NA

\* EtOH, EDB and EDC analysis not performed

**Site History and Description of Corrective Actions:**

This site is located in west Oakland, near the Interstate 880/980 junction, on the corner of West and Apgar Streets. The site address has been referred to as 3838 West St., however, the Assessor's map indicates the parcel as being 733 Apgar St. with the mailing address being 3838 West St. See Attachment 1.

On January 8, 1992 a 550 gallon gasoline UST was removed from the site. The tank had reportedly not been used for at least 20 years. Approximately 650 gallons of water was pumped from the tank prior to removal. Apparently, holes in the tank allowed groundwater to enter and be removed from within and beneath the UST. The holes were observed when the tank was removed. Two soil samples were collected at a depth of ~ 8' bgs at each end of the UST, from the soil/water interface. A grab groundwater sample was collected from the water in the tank pit. A four point composite sample from the stockpiled soil was also collected. Both soil samples from beneath the UST reported ND for TPHg and BTEX. The grab groundwater sample reported 16,000 ppb TPHg and 420 ppb xylenes. BT&E were ND. Strong hydrocarbon odors and stained soil was observed in the tank pit. No over-excavation was performed. See Attachments 2 & 3.

On July 29, 1998, two borings were advanced within five feet and on the south side of the former tank pit, in the assumed down-gradient direction. One of the borings was converted into MW-1 and the other, IB-1, was sealed with grout after sampling soil and groundwater. Soil samples from the borings were collected at 6.5' and 7' where hydrocarbon odors were observed. Up to 190 ppm TPHg, 0.77 ppm ethyl benzene and 0.53 ppm xylenes was detected in these soil samples. Benzene, toluene and MTBE

were ND in the soil samples. The grab groundwater sample from IB-1 reported 26,000 ppb TPHg and 85, 180, 58 ppb TEX, respectively. The groundwater sample from MW-1 reported 1800 ppb TPHg and 2.8, 11, 5.9, 2.7 ppb BTEX, respectively. MTBE was ND. Soil type was reported as being dark gray silt to about 2' depth, followed by reddish brown sandy, gravelly silt to about 5' bgs. Below 5' soils consisted of sandy silty gravel to the total depth explored. Groundwater was encountered at about 8' bgs. MW-1 was subsequently monitored in 3/99 and 9/99. See Attachments 4, 5 and boring logs.

On July 18, 2003 two additional monitoring wells were installed at the site to determine gradient and determine the lateral extent of the plume. On September 8, 2003, groundwater was sampled from the three monitoring wells. MW-2 was located within 5 feet of former boring IB-1 and MW-3 was installed approximately 20' southwest of MW-1. Soil samples were collected from each of the borings at depths of 7.5, 9.0 and 11.5'. Up to 19 ppm TPHg was reported in these soil samples. BTEX and MTBE concentrations were ND. The groundwater samples from MW-2 and MW-3 were ND for TPHg, BTEX and MTBE. The groundwater sample from MW-1 detected 1400 ppb TPHg only. BTEX and MTBE were ND. See Attachments 6-8 and boring logs.

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes No		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes No		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. Site should be included in the City of Oakland Permit Tracking System.		
Should corrective action be reviewed if land use changes? Yes		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3, pending closure
List Enforcement Actions Taken: none		
List Enforcement Actions Rescinded: none		

#### V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <ul style="list-style-type: none"> <li>• Disposal of soil excavated during UST removal not reported, assumed re-deposited in UST excavation.</li> <li>• Over-excavation of contaminated soil not performed</li> <li>• Residual petroleum hydrocarbon contamination in soil and groundwater remains in place at this site.</li> <li>• Analysis for constituents other than TPHg, BTEX, MTBE and oxygenates not done even though oily material appeared on the bottom of the UST at the time of removal.</li> <li>• Analysis for EDB and EDC on water samples was not performed, although all oxygenates analyzed were ND.</li> </ul> <p>Conclusion:</p> <p>Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use (laundromat) based upon the information available in our files to date. Residual soil and groundwater contamination in vicinity of former USTs appears localized. Monitoring wells located immediately down-gradient of the former UST indicate the plume is stable and attenuating. The UST had not been used for approximately 20 years prior to its removal in 1992. The petroleum release is consistent with an aged release with the absence of oxygenates. ACEH staff recommends closure for this site.</p>
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**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Prepared by: Barney Chan	Title: Hazardous Materials Specialist
Signature: <i>Barney Chan</i>	Date: 02/24/04
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: <i>Donna L. Drogos</i>	Date: 02/23/04

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

**VII. REGIONAL BOARD NOTIFICATION**

Regional Board Staff Name: Betty Graham	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Betty Graham</i>	Date: 2/25/04

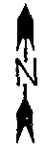
**Attachments:**

1. Site Vicinity Map
2. Site Plan
3. Soil and Groundwater Analytical Data
4. Site Plan
5. Soil and Groundwater Analytical Data and Boring Logs
6. Site Plan and Groundwater Contour Map
7. Soil Analytical Data
8. Groundwater Analytical Data and Boring Logs

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.



TOPOGRAPHY FROM USGS OAKLAND, WEST  
7.5-MINUTE QUADRANGLE MAP, (TOPO 1997).

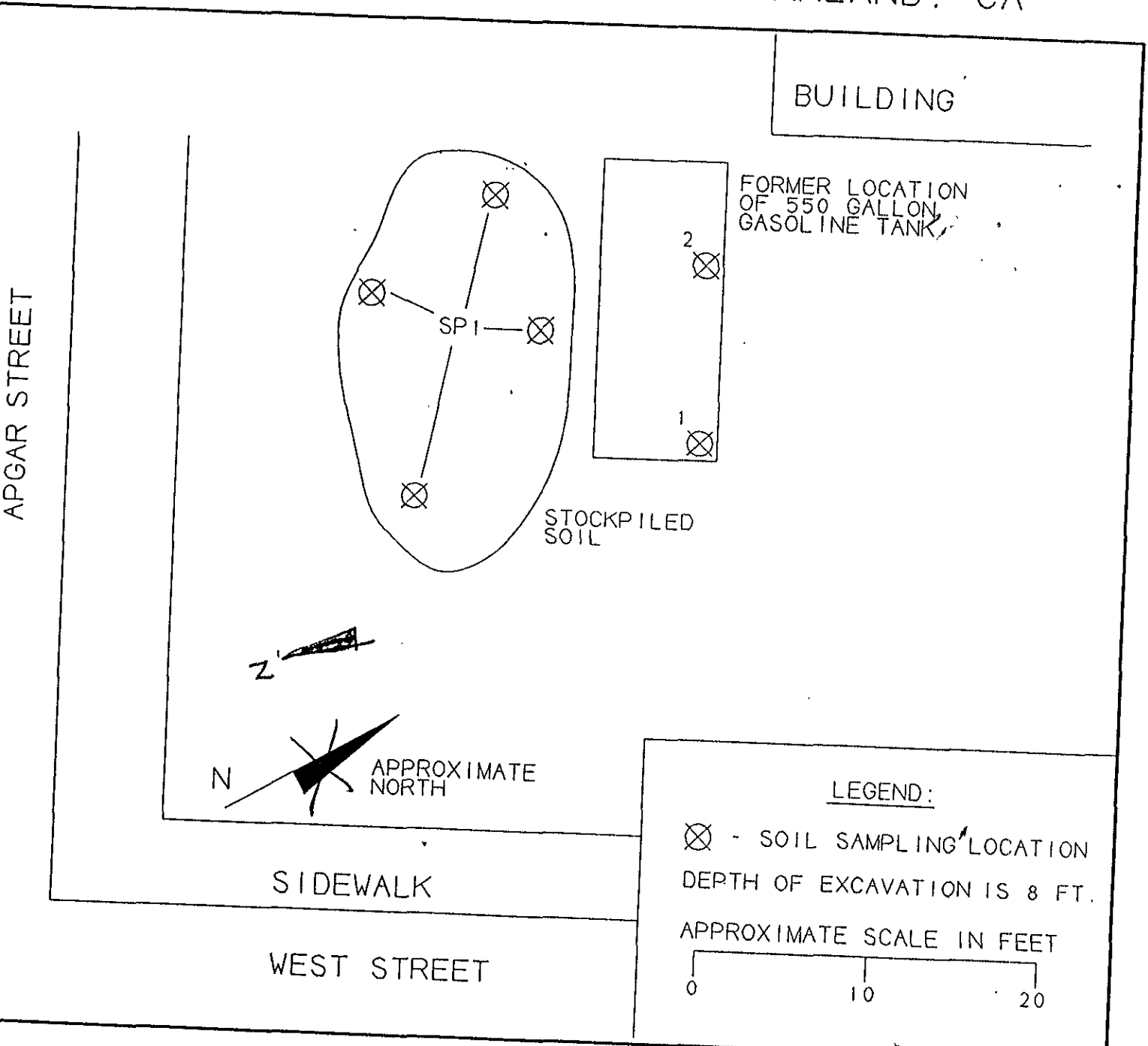


DESIGNED BY:	CHECKED BY:	<b>SITE VICINITY MAP</b>  3838 WEST STREET UST SITE OAKLAND, CALIFORNIA
DRAWN BY: JG	SCALE: 1:24,000	
PROJECT NO: 140-01-01		

**ATTACHMENT 1**

**GRIBI Associates**

FIGURE 1. - SOIL SAMPLE LOCATIONS  
B. FISHER, 3838 WEST ST., OAKLAND, CA



MILLER ENVIRONMENTAL COMPANY  
385 PITTSBURG AVE., RICHMOND, CA

ATTACHMENT 2



Tank Removal Report for Barbara Fisher  
3838 West Street, Oakland, CA

**TABLE 1**  
Laboratory results for soil and water samples  
collected following tank removal

Samp #	Depth in feet	TPH gas	Total Lead	B	T	E	X
1	8'	ND	13	ND	ND	ND	ND
2	8'	ND	21	ND	ND	ND	ND
SP1	XX	4.3	32	ND	16	18	48
EXWL <i>Water</i>	XX	16	NA	ND	ND	ND	420

- a) ND = not detected  
b) NA = not analyzed  
c) XX = no depth available: soil sample was composited in the laboratory from four soil samples collected at various locations and depths in the spoils pile and water sample was collected from the ground water encountered in the excavation pit.  
d) Sample results for TPH/gas and total lead are expressed in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm).  
e) Sample results for BTEX are expressed in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).  
f) Detection limits were:
- |                        |                        |
|------------------------|------------------------|
| <b>Soil:</b>           | <b>Ground Water:</b>   |
| TPH/gas - 1 ppm        | TPH/gas - 0.05 ppm     |
| Benzene - 2.5 ppb      | Benzene - 0.5 ppb      |
| Toluene - 2.5 ppb      | Toluene - 0.5 ppb      |
| Ethylbenzene - 2.5 ppb | Ethylbenzene - 0.5 ppb |
| Xylene - 2.5 ppb       | Xylene - 0.5 ppb       |
| Lead - 0.2 ppm         |                        |

**DISCUSSION**

Soil samples (1 & 2) collected from soil-water interface near the bottom of the excavation pit showed no detectable levels of TPH/gas and BTEX and a level of lead below the designated action level. The spoils pile sample (SP1) generated during excavation and removal of the former 550 gal. gasoline tank contained low levels of lead, TPH/gas, ethylbenzene, toluene, and xylenes. The stockpiled soil contained no laboratory detectable level of benzene. The ground water sample also contained levels of TPH/gas and xylenes which were below the recommended drinking water action levels set by the State of California Department of Health Services. Benzene, ethylbenzene, and toluene were not detected in the ground water.

**ATTACHMENT 3**

APGAR STREET

SIDEWALK

EXPECTED GROUNDWATER  
FLOW DIRECTION

FORMER GASOLINE  
UST EXCAVATION



WEST STREET

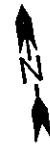
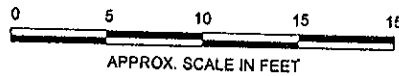
SIDEWALK

MW-1

IB-1

PROJECT SITE BUILDING

-  - GROUNDWATER MONITORING WELL
-  - INVESTIGATIVE SOIL BORING



DESIGNED BY:

CHECKED BY:

DRAWN BY: JG

SCALE:

PROJECT NO: 140-01-01

SITE PLAN

3838 WEST STREET  
OAKLAND, CALIFORNIA

ATTACHMENT 4

GRIBI Associates

All laboratory analyses were conducted by Acculabs, Inc., a California-certified analytical laboratory, with two-week turn around on lab results.

## RESULTS OF INVESTIGATION

### General Subsurface Conditions

Subsurface soils in the two borings were generally similar, consisting of dark grey silty soil down to about two feet in depth, followed by reddish brown sandy, gravelly silt down to about five feet in depth. Soils below about five feet in depth consisted of grey green to reddish brown sandy, silty gravel down to total depth. Groundwater was encountered in both borings at about eight feet in depth.

Grey green hydrocarbon staining, with moderate to strong hydrocarbon odors, was noted in subsurface soils in MW-1 from about 5.5 feet to 9.0 feet in depth, and in subsurface soils in IB-1 from about 7.0 feet to 9.0 feet in depth. Purged groundwater from MW-1 exhibited slight to moderate hydrocarbon odors, with no hydrocarbon sheens.

### Results of Laboratory Analyses

Soil and water analytical results are summarized in Table 1. Laboratory data reports for soil and water samples are contained in Appendix D.

Sample ID	Sample Depth	Constituent (parts per million)					
		TPH-G	B	T	E	X	MTBE
<b>Soil Samples</b>							
IB-1.1	7.0 ft	120 <sup>1</sup>	<0.10	<0.10	0.19	0.22	<1.0
MW-1.1	6.5 ft	190 <sup>1</sup>	<0.25	<0.25	0.77	0.53	<2.5
<b>Groundwater Samples</b>							
IB-1W	—	26	<0.025	0.085	0.180	0.058	<0.250
MW-1W	7.83 ft	1.8	0.0028	0.011	0.0059	0.0027	<0.025

TPH-G = Total Petroleum Hydrocarbons as Gasoline  
 B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes  
 MTBE = Methyl-t-butyl Ether  
 <0.10 = Not detected above the expressed value.  
 1 = Acculabs, Inc. laboratory report states "Product is not typical gasoline."

ATTACHMENT 5

# LOG OF WELL BORING

SHEET 1 OF 1

**WELL NUMBER:** MW-1

**BORING LOCATION:**

SOUTHWEST OF FORMER UST

**BORING TYPE:** MONITORING WELL

**PROJECT NAME:**

3838 WEST STREET UST SITE

**PROJECT NUMBER:** 140-01-01

**START DATE:** 08/13/98

**COMPLETION DATE:** 08/13/98

**DRILLING CONTRACTOR:**

**DRILLING METHOD:** HAND AUGER

**BOREHOLE DIAMETER:** 3-1/4 INCHES

**BORING TOTAL DEPTH:** 15 FEET

**COMPLETION METHOD:** WELL

## GRIBI Associates

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
0						ML	0.0 - 2.0 Ft. Dark grey SILT, soft, moist, no hydrocarbon odors or staining.	
2					ML	2.0 - 5.5 Ft. Reddish brown gravelly SILT, sandy, moist, no hydrocarbon odors or staining.		
5	MW-1.1	6.5 FT	5.5 - 6.5	██████		GM	5.5 - 9.0 Ft. Grey green sandy silty GRAVEL, loose to firm, moist to wet, moderate to strong hydrocarbon odors.	
9						GM	9.0 - 13.0 Ft. Grey green to brown sandy GRAVEL, slightly clayey, loose, wet, slight to moderate hydrocarbon.	
13							TOTAL DEPTH: 13 FEET GROUNDWATER DEPTH: APPROX. 8 FEET	
<b>WELL SPECIFICATIONS</b> A - WELL SCREEN DEPTH: 7.69 FT    CASING TYPE: SCH 40 PVC B - WELL SCREEN LENGTH: 4.91 FT    CASING SIZE: 1-1/4-INCH C - DEPTH TO TOP OF SAND: 4.5 FT    SLOT SIZE: 0.020-INCH D - DEPTH OF CEMENT SEAL: 4.0 FT								



APGAR STREET

SIDEWALK

SIDEWALK

WEST STREET

FORMER GASOLINE  
UST EXCAVATION

+12.00

+11.00

+10.00

IB-1

MW-1  
(+12.62)

MW-2  
(+11.19)

MW-3  
(+10.14)

PROJECT SITE BUILDING

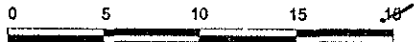


• GROUNDWATER MONITORING WELL

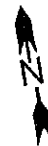


• INVESTIGATIVE SOIL BORING

— GROUNDWATER CONTOURS  
(RELATIVE TO ARBITRARY DATUM)



APPROX. SCALE IN FEET



DESIGNED BY:

CHECKED BY:

DRAWN BY: JG

SCALE:

PROJECT NO: 140-01-01

### GROUNDWATER CONTOUR MAP

3838 WEST STREET  
OAKLAND, CALIFORNIA

## ATTACHMENT 6

# GRIBI Associates

All laboratory analyses were conducted by SunStar Laboratories, Inc., a California-certified analytical laboratory, with standard turn around on lab results.

## RESULTS OF INVESTIGATION

### General Subsurface Conditions

Subsurface soils in the two well borings were generally similar, consisting primarily of interbedded silts, sand, and gravels down to about 12 feet in depth, followed by reddish brown silty clays down to total depth. Slight to moderate hydrocarbon odors were noted in soils between about eight feet and 11 feet in depth in the two well borings.

### Hydrologic Conditions

Groundwater flow gradient, as depicted on Figure 3, is to the south at about 0.20 ft/ft. Purged groundwater from MW-1 exhibited a slight hydrocarbon odor with no hydrocarbon sheen, and purged water from MW-3 exhibited a moderate hydrocarbon odor. Purged groundwater from MW-2 exhibited no hydrocarbon odors or sheen.

### Results of Laboratory Analyses

Soil and water analytical results are summarized in Table 1. Laboratory data reports for soil and water samples are contained in Appendix D.

Sample ID	Sample Date	Sample Depth	Constituent (parts per million)						
			TPH-G	B	T	E	X	MTBE	OXYG
Soil Samples									
IB-1.1	08/13/98	7.0 ft	120 <sup>1</sup>	<0.10	<0.10	0.19	0.22	<1.0	--
MW-1.1	08/13/98	6.5 ft	190 <sup>1</sup>	<0.25	<0.25	0.77	0.53	<2.5	--
MW-2-7.5	07/18/03	7.5 ft.	<0.5	<0.005	<0.005	<0.005	<0.010	<0.020	--
MW-2-9.0	07/18/03	9.0 ft.	30.0	<0.005	<0.005	<0.005	<0.010	<0.020	--
MW-2-11.5	07/18/03	11.5 ft.	<0.5	<0.005	<0.005	<0.005	<0.010	<0.020	--
MW-3-7.5	07/18/03	7.5 ft.	12.0	<0.005	<0.005	<0.005	<0.010	<0.020	--
MW-3-9.0	07/18/03	9.0 ft.	19.0	<0.005	<0.005	<0.005	<0.010	<0.020	--
MW-3-11.5	07/18/03	11.5 ft.	<0.5	<0.005	<0.005	<0.005	<0.010	<0.020	--

Table 1 SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS 3838 West Street UST Site									
Sample ID	Sample Date	Sample Depth	Constituent (parts per million)						
			TPH-G	B	T	E	X	MTBE	OXYG
Groundwater Samples DTW									
IB-1W	08/19/98	—	26	<0.025	0.085	0.180	0.058	<0.250	--
MW-1	08/19/98	7.83 ft	1.8	0.0028	0.011	0.0059	0.0027	<0.025	--
<20.00>	03/24/99	4.52 ft	2.6	0.0058	0.048	0.026	0.024	<0.050	--
	09/01/99	7.23 ft	6.0 <sup>1</sup>	<0.0025	0.028	0.061	0.025	<0.025	--
	09/08/03	7.38 ft	1.4	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
MW-2	09/08/03	9.45 ft	<0.050	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
<20.64>									
MW-3	09/08/03	9.40 ft	<0.050	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
<19.54>									

TPH-G = Total Petroleum Hydrocarbons as Gasoline  
 B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes  
 MTBE = Methyl-t-butyl Ether  
 OXYG = Oxygenates (except MTBE), including Ter-Butyl Alcohol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).  
 <0.10 = Not detected above the expressed value.  
 <20.00> = Top of casing elevation. Measured to an arbitrary datum.  
 1 = Acculabs, Inc. laboratory report states "Product is not typical gasoline."

#### 4.0 CONCLUSIONS

Soil and groundwater laboratory analytical results from this and previous investigations clearly show no significant impacts to both soil and groundwater beneath the site. While there are some detectable concentrations of TPH-G in some soil and groundwater samples, there are no significant concentrations of BTEX or oxygenate constituents, indicating considerable degradation of any gasoline releases. Further, it appears likely based on these results that residual gasoline constituents present in soil and groundwater beneath the site do not pose a significant risk to potential indoor air receptors at the site.

Based on these conclusions, we recommend that Alameda County UST Local Oversight Program review this site for regulatory case closure.

ATTACHMENT 8



# LOG OF SOIL BORING

SHEET 1 OF 1

## GRIBI Associates

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: GEOPROBE

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: MONITORING WELL

BORING TOTAL DEPTH: 16.0 FEET

GROUNDWATER DEPTH: 9.45 FEET

WELL NUMBER: MW-2

LOCATION: NEAR NW CORNER OF BUILDING

BORING TYPE: MONITORING WELL

PROJECT NAME: 3838 WEST STREET FORMER UST SITE

START DATE: 07/18/03

COMPLETION DATE: 07/18/03

GA PROJECT NUMBER: 140-01-02

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION																
				↓ - INITIAL ↓ - FINAL																			
0					SC	0.0 - 4.5 ft. Grey brown silty, gravelly SAND, moist, no odor or staining.																	
5					ML	4.5 - 8.5 ft. Red brown gravelly SILT, loose to firm, moist, no odor or staining.																	
	MW-2-7.5	7.5 FT.																					
	MW-2-9.0	9.0 FT.		↓	GM	8.5 - 11.0 ft. Greenish brown clayey, fine to medium, subrounded GRAVEL, moist to wet, slight to moderate hydrocarbon odor.																	
10					CL	11.0 - 13.0 ft. Red brown clayey GRAVEL, firm and wet, slight to no hydrocarbon odor.																	
	MW-2-11.5	11.5 FT.				13.0 - 16.0 ft. Red brown silty CLAY, locally gravelly, firm and wet, no odor or staining.																	
15																							
20																							
25																							
						TOTAL DEPTH: 16.0 FEET GROUNDWATER DEPTH: 9.45 FEET																	
<p style="text-align: center;"><b>WELL SPECIFICATIONS</b></p> <table border="0"> <tr> <td>A - WELL SCREEN DEPTH:</td> <td>5.04 FT</td> <td>CASING TYPE:</td> <td>SCH 40 PVC</td> </tr> <tr> <td>B - WELL SCREEN LENGTH:</td> <td>10.00 FT</td> <td>CASING SIZE:</td> <td>1.25"</td> </tr> <tr> <td>C - DEPTH TO TOP OF SAND:</td> <td>4.0 FT</td> <td>SLOT SIZE:</td> <td>0.02"</td> </tr> <tr> <td>D - DEPTH BENTONITE SEAL:</td> <td>3.0 FT</td> <td></td> <td></td> </tr> </table>								A - WELL SCREEN DEPTH:	5.04 FT	CASING TYPE:	SCH 40 PVC	B - WELL SCREEN LENGTH:	10.00 FT	CASING SIZE:	1.25"	C - DEPTH TO TOP OF SAND:	4.0 FT	SLOT SIZE:	0.02"	D - DEPTH BENTONITE SEAL:	3.0 FT		
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# LOG OF SOIL BORING

SHEET 1 OF 1

## GRIBI Associates

DRILLING CONTRACTOR: GREGG DRILLING  
 DRILLING METHOD: GEOPROBE  
 BOREHOLE DIAMETER: 2.5 INCHES  
 COMPLETION METHOD: MONITORING WELL  
 BORING TOTAL DEPTH: 16.0 FEET  
 GROUNDWATER DEPTH: 9.40 FEET

NUMBER: MW-3  
 LOCATION: NEAR STREET  
 TYPE: MONITORING WELL  
 PROJECT NAME: 3838 WEST STREET  
 FORMER UST SITE  
 PROJECT NUMBER: 140-01-02

START DATE: 07/18/03  
 COMPLETION DATE: 07/18/03

