

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

February 2, 2004

Mr. Tony Ortega
Ameriflight, Inc.
4700 Empire Ave., Hangar 1
Burbank, CA 91505

Mr. Dale Klettke
Port of Oakland
530 Water St.
P.O. Box 2064
Oakland, CA 94607-2064

Dear Messrs. Ortega and Klettke:

Subject: Fuel Leak Site Case Closure, Ameriflight, Inc., Tanks LF5/6, 9171 Earhart Rd., Oakland, CA 94621; Case No. RO0000465

This letter confirms the completion of a site investigation and remedial action for the two (2)-12,000 gallon fuel underground storage tanks 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 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, this agency finds that the site investigation and corrective action carried out at your underground storage tank 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 Barney Chan at (510) 567-6765 of our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director
Alameda County Environmental Health

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



February 2, 2004

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Ameriflight, Inc.
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Dear Messrs. Ortega and Klettke:

Subject: Fuel Leak Site Case Closure, Ameriflight, Inc., Tanks LF5/6, 9171 Earhart Rd., Oakland, CA 94621; Case No. RO0000465

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.

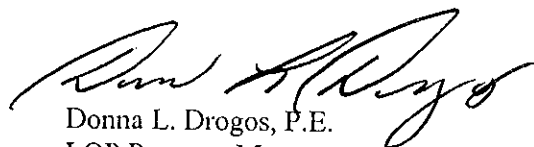
SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Up to 11,400 parts per million TPH as jet fuel, 852 ppm TPH as AV-gas, 1.4 ppm organic lead, 0.023 ppm MTBE and 2.1, 146, 4, and 6 ppm benzene, toluene, ethyl benzene, xylenes, respectively remain in soil 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:

- Case Closure Letter
- Case Closure Summary

cc: Ms. Betty Graham (w/enc)
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

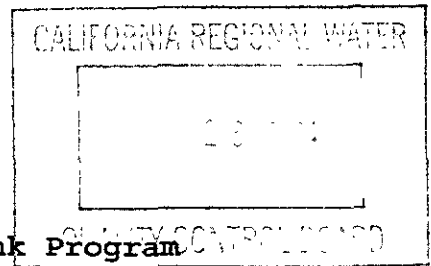
Mr. Toru Okamoto (w/enc)
State Water Resources Control Board
Underground Storage Tank Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. Leroy Griffin (w/enc)
City of Oakland Fire Dept., OES
1615 MLK Jr. Way
Oakland, CA 94612

/ B. Chan (w/orig enc), D. Drogos (w/enc), R. Garcia-La Grille (w/enc)

Alameda County

JAN 30 2004



Environmental Health CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: September 13, 2000

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway
 Rm 250, Alameda CA 94502

City/State/Zip: Alameda Phone: (510) 567-6700

Responsible staff person: Barney Chan Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Ameriflight, Inc., Tanks LF5/6

Site facility address: 9171 Earhart Rd., Oakland CA 94621

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3977 / Ro 465

ULR filing date: 9/30/99 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

1. Mr. Tony Ortega
 Ameriflight, Inc. 4700 Empire Ave., Hangar 1
 Burbank, CA 91505
2. Mr. Dale Klettke
 Port of Oakland 530 Water St., P.O. Box 2064 510-627-1118
 Oakland CA 94607-2064

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	12,000	Aviation-gas	removed	11/11/98
2	12,000	Jet-A	removed	11/11/98

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? yes

Date approved by oversight agency:

Monitoring Wells installed? Yes Number: 6

Leaking Underground Fuel Storage Program

Proper screened interval? Yes, 5-15' bgs

Highest GW depth: 5.14' bgs Lowest depth: 5.34' bgs

Flow direction: essentially flat

Most sensitive current use: industrial area-restricted to Airport personnel

Are drinking water wells affected? No Aquifer name: NA

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

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

Report(s) on file? Yes Where is report(s)?

Alameda County	and	City of Oakland OES
1131 Harbor Bay Parkway,		1605 MLK Jr. Way
Room 250, Alameda CA 94502-6577		Oakland CA 94612

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Tanks	2-12,000 gallon	disposed @ Erickson, Richmond spoils were ND and reused as backfill	11/11/98
Soil	none		

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>1Before</u>	<u>After3</u>	<u>2Before</u>	<u>After 4</u>
TPH-hi boilers	300			
TPH-Jet fuel/kerosene	11400		19,900	ND
TPH-AV-Gas	852		34,000	ND
Benzene	2.1		ND	ND
Toluene	146		2580	ND
Ethylbenzene	4		30	ND
Xylenes	6		138	ND
Lead-organic	1.4		250	*ND
Other MTBE	0.023		ND	ND

Comments (Depth of Remediation, etc.):

- 1 soil samples from original tank removal
- 2 grab groundwater sample #7 from tank removal
- 3 no over-excavation performed
- 4 monitoring well result, 4/12/2000
- * total soluble lead

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

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

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

Site management requirements: 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: 6

Number Retained: 60

List enforcement actions taken: none

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan

Title: Hazardous Materials Specialist

Signature:



Date:

10/3/00

Reviewed by

Name: Tom Peacock

Title: Manager

Signature:



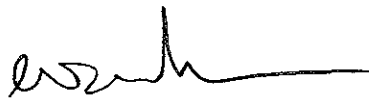
Date:

10-2-00

Name: Eva Chu

Title: Hazardous Materials Specialist

Signature:



Date:

9/13/00

VI. RWQCB NOTIFICATION

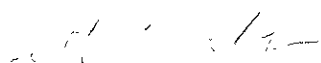
Date Submitted to RB:

RB Response:

RWQCB Staff Name: Betty Graham

Title: AWRCE

Signature:



Date:

11/11/00

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

See attached site summary.

Site summary for Ameriflight, Inc., Hangar 2, 9171 Earhart Rd., Oakland CA 94621
StID # 3977

The Ameriflight Oakland facility is located within the North Field of the Oakland International Airport (OIA), just off Earhart Rd. See **Figure 1**. The facility consists of a large hangar (Hangar 2) used primarily for aircraft parking and maintenance. The two underground tanks were located on the north side of the hangar and used to fuel aircraft.

On **November 11, 1998**, two 12,000 gallon steel underground tanks formerly containing jet fuel and aviation gas were removed from the site. The dispenser island and pumps were located just above the southern ends of the tanks and were also removed. Mr. Dale Klettke of the Port of Oakland oversaw the tank removals, because the City of Oakland Fire Department representative was not present. The contractor, as well as Mr. Klettke, noted the tanks were in good condition. Groundwater was encountered at approximately 9' bgs and had an apparent sheen on it. Groundwater equilibrated at approximately 6' bgs. Four soil samples were taken at the soil/groundwater interface from near the ends of the tanks along the four sidewalls. See **Figure 2**. Mr. Klettke noted that there were noticeable petroleum odors in three of the four soil samples. Soil sample #4 is noted as having the least noticeable odor, which is confirmed in the analytical results. A grab groundwater sample was collected from the center of the tank pit and a soil sample from each of the two stockpiled soil piles was also collected. The samples were analyzed for the entire spectrum of petroleum hydrocarbons, from av-gas to crude oil, BTEX, MTBE and organic lead.

Jet fuel/kerosene as reported by the analytical laboratory consists of a petroleum hydrocarbon cut from C₁₁- C₁₄. Av-gas consists of a cut of petroleum hydrocarbons from C₄- C₁₂ and contains BTEX. Some jet fuels also contain BTEX because they can contain a percentage of gasoline, though BTEX is not typically found at a high level in jet fuel.

Up to 11,400 mg/kg kerosene/jet fuel, 852 mg/kg av-gas, 0.023 mg/kg MTBE, and 2.1, 146, 4.0, 6.1 mg/kg BTEX, respectively were found in the soil samples. The major release occurred from the av-gas tank. The grab groundwater sample exhibited 19.9 mg/l kerosene/jet fuel, 34 mg/l av-gas and ND, 2580, 30, 138 ug/l BTEX, respectively. MTBE was not detected in the grab groundwater sample. See **Table 1 for a summary of the analytical results**.

On 12/16/99 six groundwater monitoring wells were installed around the former tank pit. Soil samples were collected from each of the monitoring well borings and January 18, 2000 groundwater samples were collected and analyzed from the wells. See **Figure 3 for the location of the wells and Table 2 for a summary of the soil and groundwater results**. In general, little to no contaminants were found in either soil or groundwater. Also attached are the well logs. In general, below the asphalt cap you encounter either sand or silty clay then sand. Clay is encountered at about 10' bgs. Groundwater is encountered at approximately 7' bgs.

On 4/12/2000 groundwater was sampled again at this site. The gradient was also determined to be basically flat. All analytes were ND in this sampling event. See **Table 3 for these results**. Wells MW-1, MW-2, MW-3 and MW-6 were sampled and tested for total soluble lead on 8/9/00. All samples were ND.

Site summary for Ameriflight, 9171 Earhart Rd., Oakland CA 94621
SID # 3977

Site closure is recommended based upon:

- Adequate site characterization
- No impact to groundwater is observed, site is basically a soils-only site.
- No human health or ecological health risk
- No sensitive receptors are likely to be impacted.

Environmental Profiles, Inc.

5480 Katella Avenue, Suite 211, Los Alamitos, CA 90720-2834 • (562)493-2190 • FAX (562)430-5177

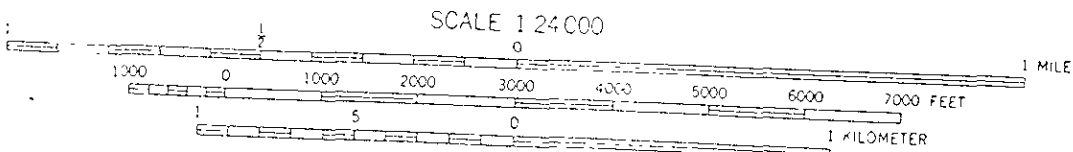
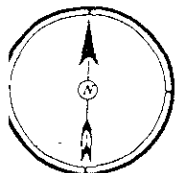
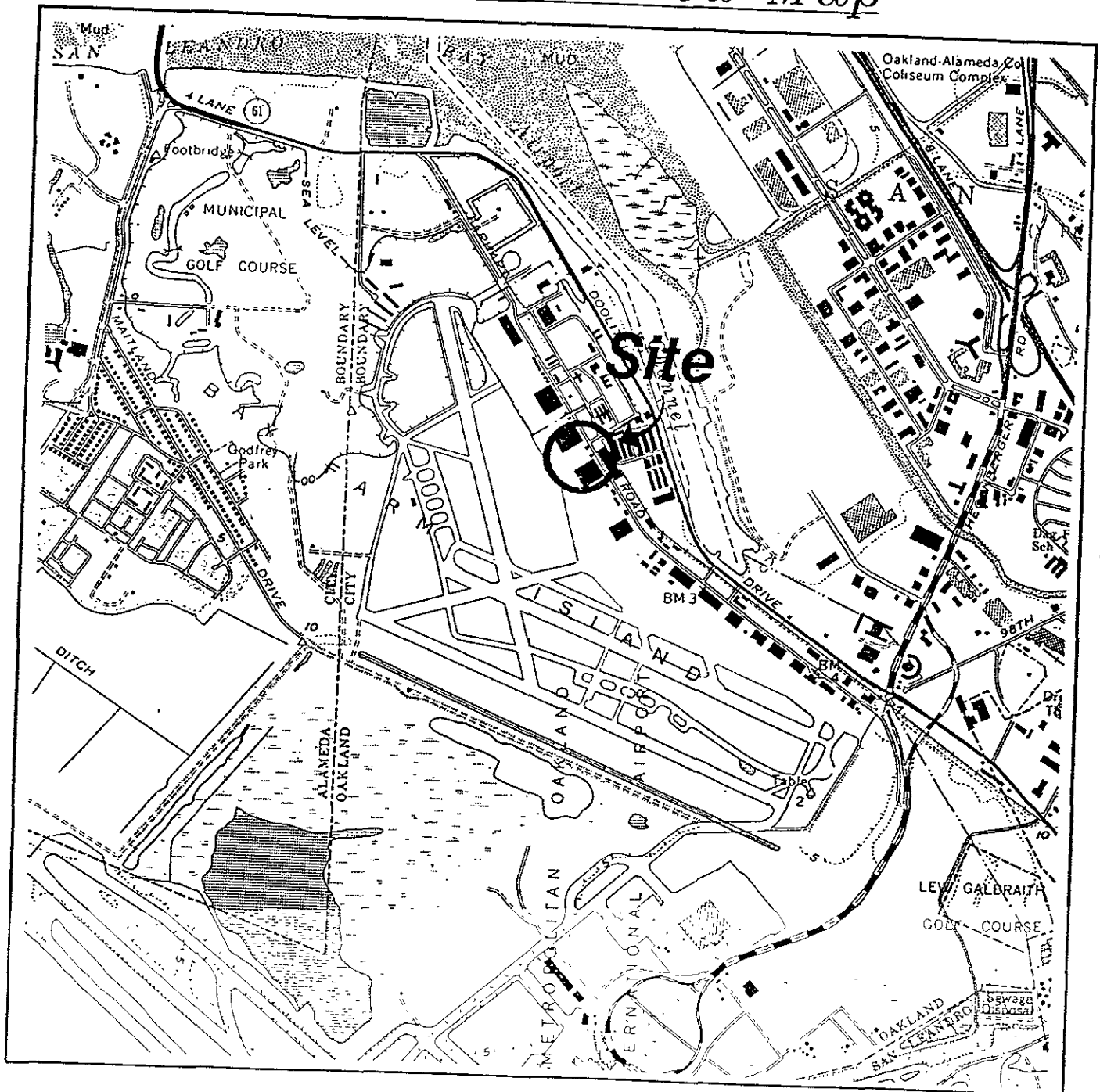
Project Name: Ameriflight, Inc. (Oakland)

Job#: 46591

Location: 9171 Earhart Road, Hangar 2, Oakland, California

Map Source: USGS 7.5 Minute Series, San Leandro Quadrangle, Photorevised 1980

Figure 1 - Area Map

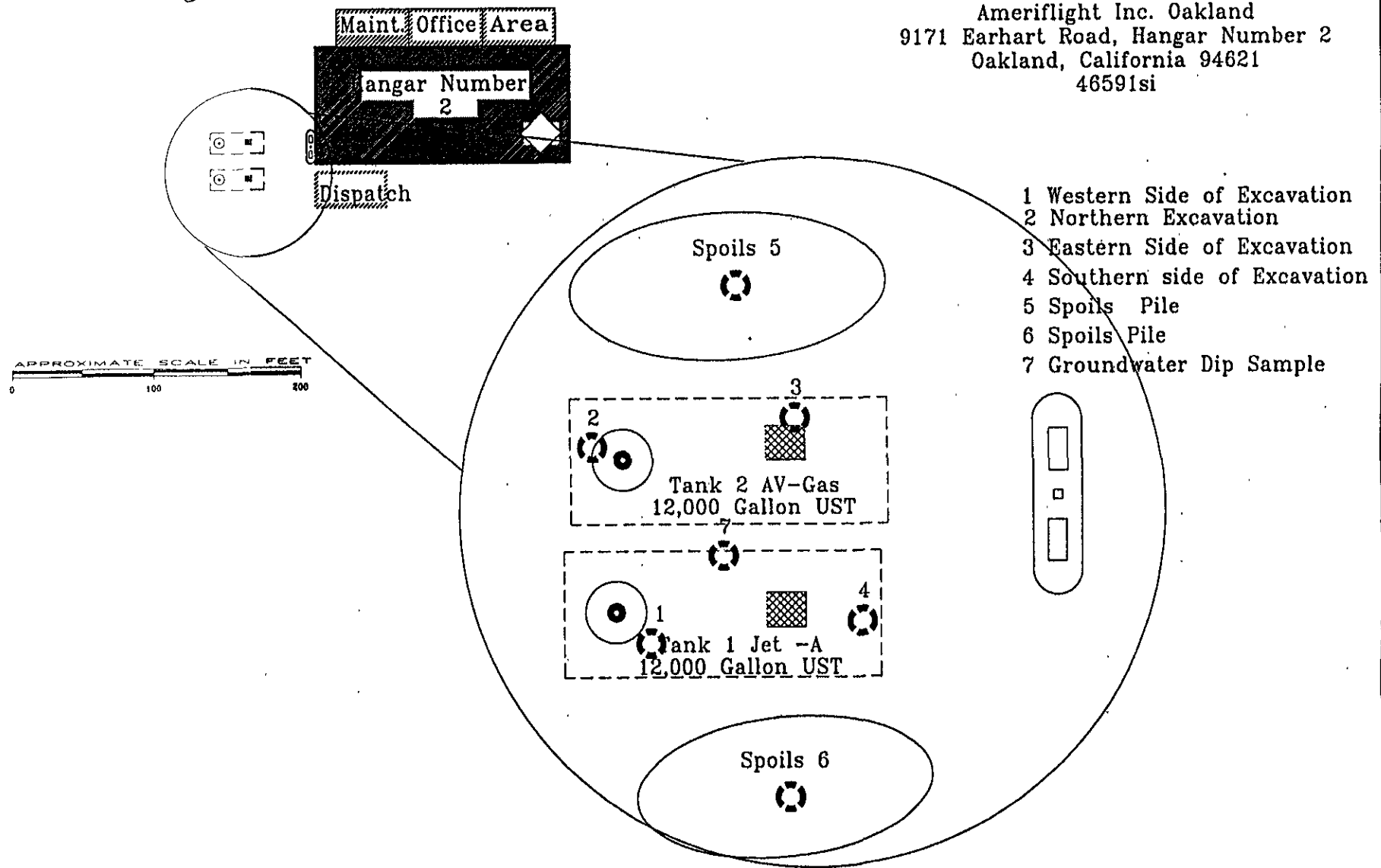


QUADRANGLE LOCATION

Figure 2 - Site Diagram

EARHART RD.

Ameriflight Inc. Oakland
 9171 Earhart Road, Hangar Number 2
 Oakland, California 94621
 46591si



Legend



Sample Point



12,000 Gallon UST

Environmental Profiles, Inc.

5480 Katella Avenue, Suite 211, Los Alamitos California
 (562) 493-2190*** FAX (562) 430-5177

Samples were held in a chilled state under EPA Chain of Custody protocol for transport and subsequent laboratory chemical analyses to American Scientific Laboratories in Los Angeles, California. Based on site history samples were analyzed by the following methods:

- TPH reported as Semi Volatile Extractables, EPA Method 8015m/Fingerp, detection limit 10.0 mg/kg
- TPH reported as AVGAS, EPA Method 8015(M), detection limit 10 mg/kg.
- Organic Lead, EPA Method HMU-900, detection limit 0.05 mg/kg.
- Aromatic Volatile Organics, BTEX EPA Method 8020, detection limit varies.
- Aromatic Volatile Organics, MTBE, EPA Method 8020, detection limit 20.0 µg/kg

Results of the laboratory chemical analyses are summarized below in Table 1 - Laboratory Chemical Analysis Results, and are provided in Appendix B - Chain of Custody Record and Laboratory Chemical Analysis Results.

TABLE 1 - SUMMARY OF SOIL SAMPLE LABORATORY RESULTS								
Semi Volatile Extractables C7-C8								
Sample No.	Crude Oil mg/kg	Diesel mg/kg	Fuel Oil mg/kg	Heavy Oil mg/kg	Hydraulic oil mg/kg	Kerosene Jet Fuel mg/kg	Mineral Spirits mg/kg	Stoddard Solvent mg/kg
1	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	240	ND	11400	ND	ND
3	ND	ND	ND	300	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND
5	ND	ND	ND	ND	ND	ND	ND	ND
6	ND	ND	ND	ND	ND	ND	ND	ND
7- water	ND	ND	ND	ND	ND	19.9	ND	ND

**TABLE 1 - SUMMARY OF SOIL SAMPLE LABORATORY RESULTS
BTEX, MTBE and LEAD**

Sample No.	AV-GAS TPH mg/kg	MTBE ug/kg	BENZENE mg/kg <i>M</i>	ETHYLBENZENE ug/kg	TOLUENE ug/kg	XYLENES	LEAD ORGANIC
1	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	4010	1440	6050	ND
3	852	ND	2140	500	146000	1800	1.44
4	ND	23	ND	10	17	55	ND
5	ND	ND	ND	ND	ND	ND	ND
6	ND	ND	ND	ND	ND	ND	ND
7- water	34000 <i>ug/l</i>	ND	ND	30	2580	138	0.25 <i>mg/l</i>

Notes: mg/kg/S = milligrams per kilogram in soil; ug/kg/S = micrograms per kilogram in soil; <S = indicates concentration not detected above the noted detection limit

5.0 CONCLUSION

A minor impact has occurred to the site apparently resulting from the use of the tanks at the site. Due to the demonstrated minimal nature of the site contamination and water characteristics no further action is recommended at this time. The site work as reported has been performed in accordance with accepted guidelines for this type site investigation.

Should you have any questions, comments or require additional information regarding this project, please call (562) 493-2190 during normal hours. Thank you.

Prepared by:



Matthew J. Walker
California Civil Engineer 37369

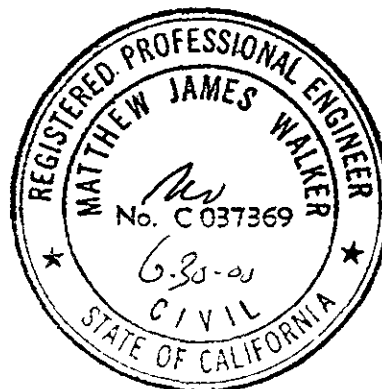
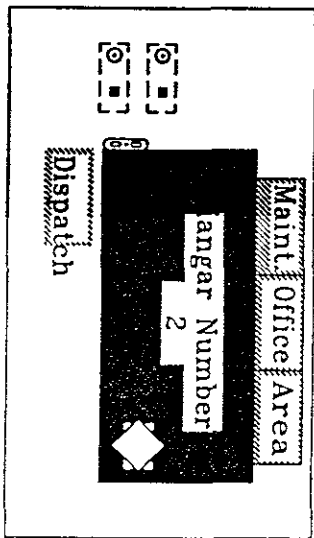
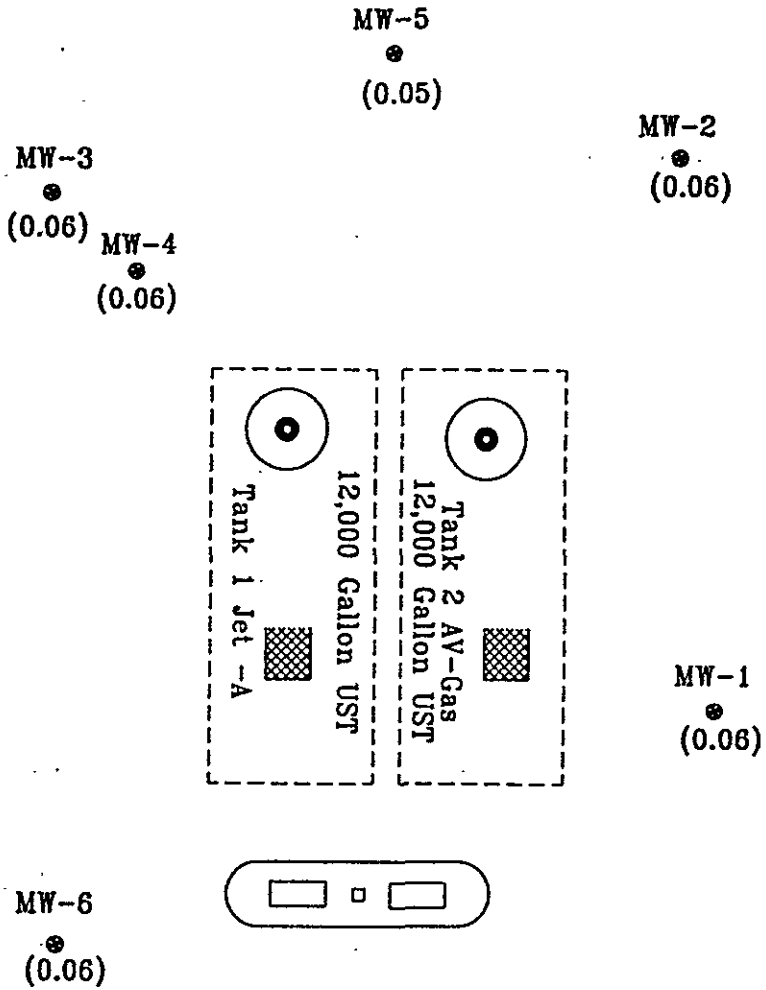


Figure 3 - Groundwater Gradient Diagram ⁽⁷¹⁰⁾

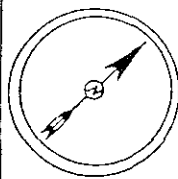
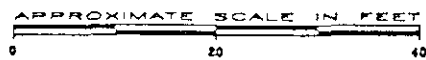


Arbitrary (point) datum



Ameriflight Inc. Oakland
9171 Earhart Road, Hangar Number 2
Oakland, California 94621

Drawing file: P:/dwg/46591/Fig 3/4-12-00.dwg



Explanation

- ⊗ Groundwater monitor well locations
- ⊙ Former UST locations
- (0.06) Groundwater elevation at well point

Environmental Profiles, Inc.
5480 Katella Avenue, Suite 211, Los Alamitos California
(562) 493-2190*** FAX (562) 430-5177

4.2 Laboratory Chemical Analysis Results, Soil

Results of the laboratory chemical analysis are summarized below in Table 1 - Laboratory Chemical Analyses Results, Soil and are presented in Appendix A - Chain of Custody Record and Laboratory Chemical Analysis Reports, Soil.

TABLE 2 - LABORATORY CHEMICAL ANALYSIS RESULTS, SOIL

Ameriflight, Inc.
 9171 Earhart Road
 Oakland, CA 94621
 12-16-99

ID	TPH (mg/kg)		B (µg/kg)	T (µg/kg)	E (µg/kg)	X (µg/kg)	MTBE (µg/kg)	LEAD (mg/kg)
	AV FUEL	JET FUEL						
B1-5	ND	ND	ND	ND	ND	ND	ND	0.38
B1-10	ND	ND	ND	ND	ND	ND	ND	5.37
B1-15	ND	ND	ND	11	ND	12	ND	3.28
B2-5	ND	ND	ND	5	ND	12	ND	1.80
B2-10	ND	ND	ND	ND	ND	ND	ND	2.47
B2-15	ND	ND	ND	8	ND	ND	ND	2.85
B3-5	ND	ND	ND	8	ND	13	ND	1.57
B3-10	ND	ND	ND	16	ND	15	ND	2.22
B3-15	ND	ND	ND	15	ND	12	ND	2.17
B4-5	ND	ND	ND	ND	ND	ND	ND	1.42
B4-10	ND	ND	ND	21	ND	12	ND	3.68
B4-15	ND	ND	ND	13	ND	ND	ND	2.30
B5-5	ND	ND	ND	ND	ND	ND	ND	0.95
B5-10	ND	ND	ND	ND	ND	ND	ND	2.27
B5-15	ND	ND	ND	11	ND	ND	ND	2.30
B6-5	ND	ND	ND	6	ND	ND	ND	1.50
B6-10	ND	ND	ND	9	ND	ND	ND	2.88
B6-15	ND	ND	ND	11	ND	11	ND	2.80

(MW1)
↓

(MW6)

Notes:

- B,T,E,X = Benzene, toluene, ethyl benzene, total xylenes
- mg/kg = milligrams per kilogram or ppm
- µg/kg = micrograms per kilogram or ppb
- ND = indicates analyte not detected at or above the noted laboratory detection limit

4.3 Laboratory Chemical Analysis, Groundwater

On January 20, 2000 six (6) groundwater samples were submitted under EPA chain of custody protocol to American Scientific Laboratories, LLC (ASL), Los Angeles, California for chemical analysis. Based on site background samples were analyzed by the following:

- TPH reported Aviation fuel by EPA Method 8015(M), detection limit 0.05 mg/l
- TPH reported Jet fuel by EPA Method 8015(M), detection limit 1.0 mg/l
- Monoaromatics, BTEX, EPA Method 8020, detection limit 0.3 to 0.6 µg/l
- MTBE, EPA Method 8020, detection limit 2.0 µg/l

4.4 Laboratory Chemical Analysis Results, Groundwater

Results of the laboratory chemical analysis are summarized below in Table 2 - Laboratory Chemical Analysis Results, Groundwater and are presented in Appendix C - Chain of Custody Record and Laboratory Chemical Analysis Reports, Groundwater.

TABLE 2 - LABORATORY CHEMICAL ANALYSIS RESULTS, GROUNDWATER							
Ameriflight, Inc. 9171 Earhart Road Oakland, CA 94621 1-20-2000							
ID	TPH (mg/L)		MTBE (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
	AV. FUEL	JET FUEL					
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	2.8	ND	ND	ND	ND
MW-3	ND	ND	2.0	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND	ND	ND





Notes:

- mg/L = milligrams per liter or ppm
- µg/L = micrograms per liter or ppb
- ND = indicates analyte not detected at or above the laboratory detection limit

Monitoring Well No. MW-1

DATE: 12-16-99
 HOLE DIA.: 8.5 in.
 FINAL GW: ~ 5 ft.

LOGGED BY: M. Bartee
 SAMPLER: split spoon
 HOLE ELEV.: NA

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	PID	WELL CONSTRUCTION DETAIL
Top cover approximately 8-inches thick	ASPHT		0			Locking Christy Box
SILTY CLAY (CL) - Greenish black (5GY 2/1), stiff, moist to wet, no petroleum odor (0,4,36,60)	CL		5			Locking well cap
SAND (SP) - Poorly graded, same color, coarse mafic and quartz grains (0,100,0,0)	SP		5			Bentonite slurry
CLAY (CH) - Same color as above, damp, fat, stiff, no petroleum odor (0,0,2,98)	CH		10			2" Sch.40 Blank PVC
same as above, no petroleum odors Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs			15			Sand filter pack (#2/12)
						2" Sch.40 Slotted PVC (0.010)
						Flush threaded end cap

EPI

Environmental Profiles, Inc
 Los Alamitos, California

Notes:

(5 YR 2/2) Geological Society of America Rock Color Chart,
 Munsell color designation (15,70,10,5) % sample fractions
 estimated in field (gravel, sand, silt, clay)

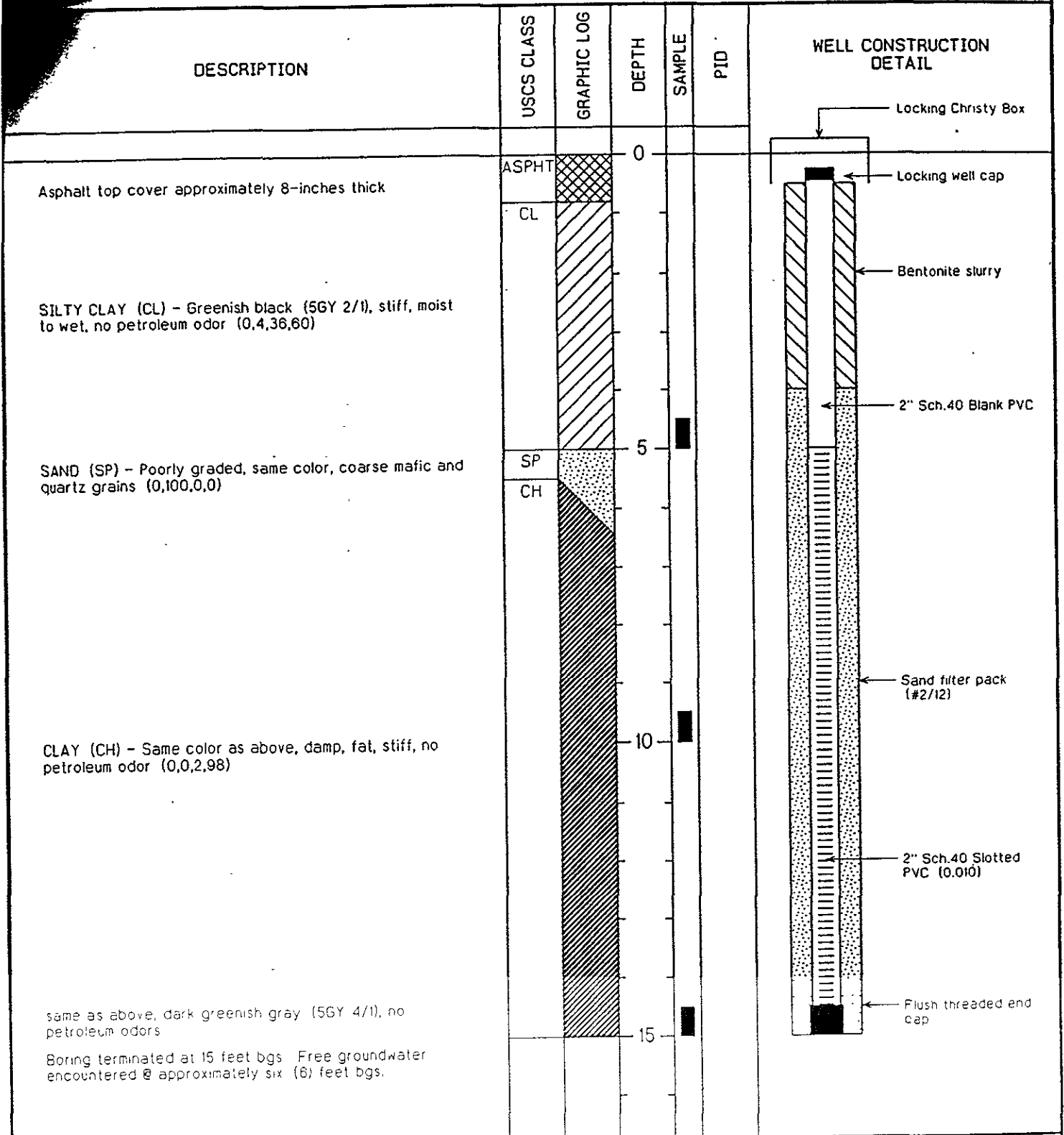
Project No.
 4659;

Monitoring Well No. MW-2

Flight-Oakland
 Follow Stem Auger
 DEPTH: ~ 7 ft.

DATE: 12-16-99
 HOLE DIA.: 8.5 in.
 FINAL GW: ~ 5 ft.

LOGGED BY: M. Bartee
 SAMPLER: split spoon
 HOLE ELEV.: NA



Notes:

(5 YR 2/2) Geology Co. Society of America Rock Color Chart, Munsell color designation (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)

EPI

Environmental Profiles, Inc
 Los Alamitos, California

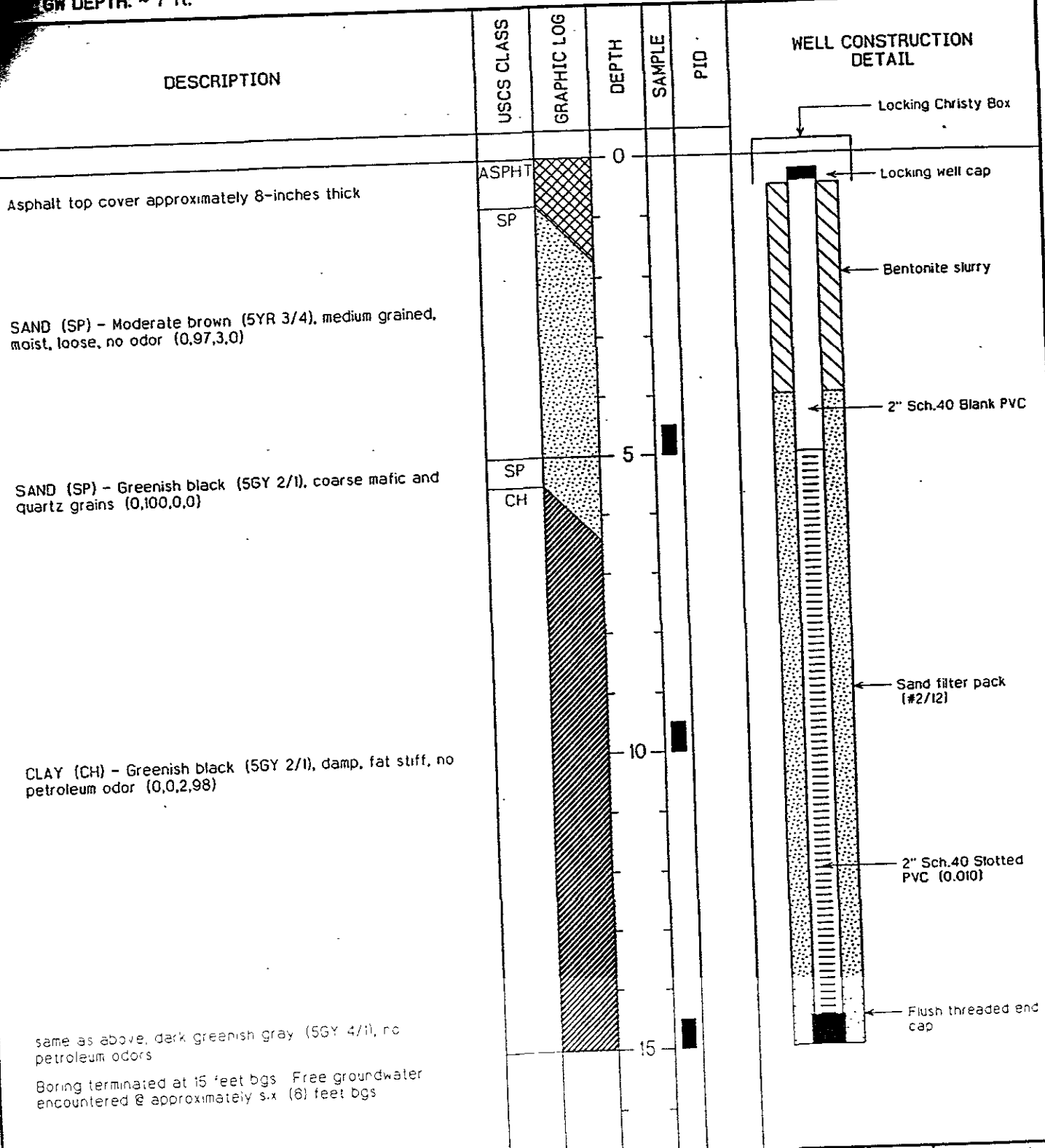
Project No
 46591

Monitoring Well No. MW-3

Merrifield-Oakland
 Hollow Stem Auger
 GW DEPTH: ~ 7 ft.

DATE: 12-16-99
 HOLE DIA.: 8.5 in.
 FINAL GW: ~ 5 ft.

LOGGED BY: M. Bartee
 SAMPLER: split spoon
 HOLE ELEV.: NA



EPI
 Environmental Profiles, Inc
 Los Alamitos, California

Notes:
 (5 YR 2/2) Geological Society of America Rock Color Chart,
 Munsell color designation (15,70,10,5) % sample fractions
 estimated in the (gravel, sand, silt, clay)

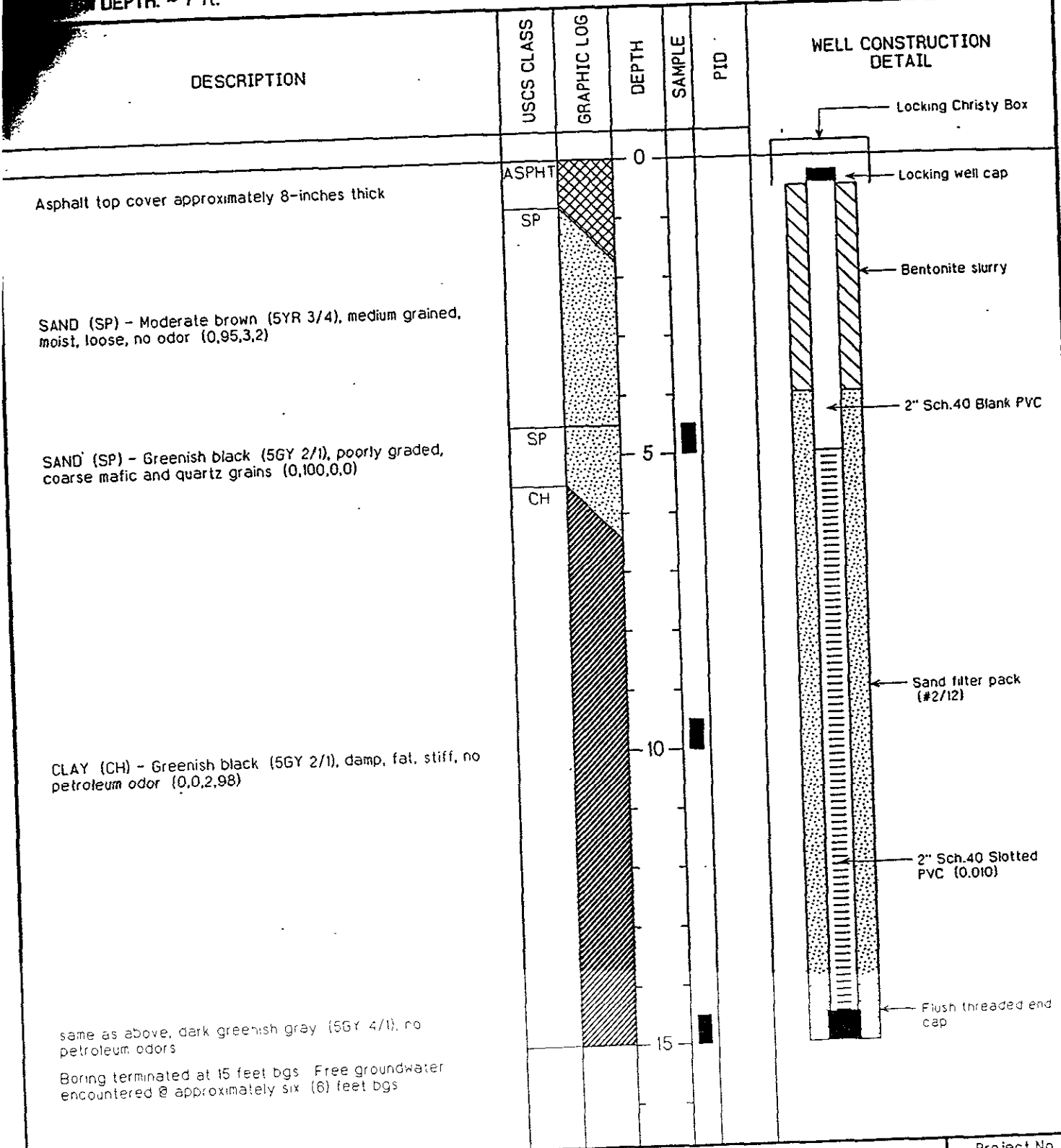
Project No.
 46591
 Page 1 of 1

Monitoring Well No. MW-4

Flight-Oakland
Hollow Stem Auger
DEPTH: ~ 7 ft.

DATE: 12-16-99
HOLE DIA.: 8.5 in.
FINAL GW: ~ 5 ft.

LOGGED BY: M. Barteo
SAMPLER: split spoon
HOLE ELEV.: NA



EPI

Environmental Profiles, Inc
Los Alamitos, California

Notes:

(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)

Project No.
46591

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Monitoring Well No. MW-5

Merriflight-Oakland
 Hollow Stem Auger
 GW DEPTH: ~ 7 ft.

DATE: 12-16-99
 HOLE DIA.: 8.5 in.
 FINAL GW: ~ 5 ft.

LOGGED BY: M. Bartee
 SAMPLER: split spoon
 HOLE ELEV.: NA

DESCRIPTION

USCS CLASS

GRAPHIC LOG

DEPTH

SAMPLE

PID

WELL CONSTRUCTION DETAIL

Asphalt top cover approximately 8-inches thick

SAND (SP) - Moderate brown (5YR 3/4), medium grained, moist, loose, no odor (0,97,3,0)

CLAY (CH) - Greenish black (5GY 2/1), damp, fat stiff, no petroleum odor (0,0,2,98)

same as above

same as above, dark green sh gray (5GY 4/1), no petroleum odors

Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs

ASPHT

SP

CH

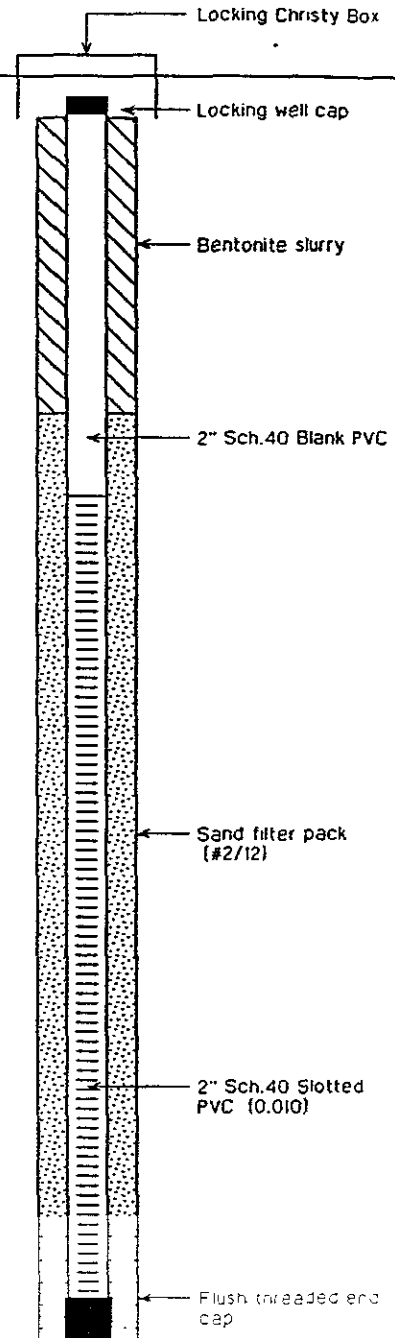
CH

0

5

10

15



EPI

Environmental Profiles, Inc
 Los Alamitos, California

Notes:

(5 YR 2/2) Geological Society of America Rock Color Chart,
 Munsell color designation (15,70,10,5) % sample fractions
 estimated in field (gravel, sand, silt, clay)

Project No.
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Monitoring Well No. MW-6

Merrifield-Oakland
 Hollow Stem Auger
 GW DEPTH: ~ 7 ft.

DATE: 12-16-99
 HOLE DIA.: 8.5 in.
 FINAL GW: ~ 5 ft.

LOGGED BY: M. Bartee
 SAMPLER: split spoon
 HOLE ELEV.: NA

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	PID	WELL CONSTRUCTION DETAIL
<p>Asphalt top cover approximately 8-inches thick</p> <p>SILTY CLAY (CL) - Greenish black (5GY 2/1), stiff, moist to wet, no petroleum odor (0,4,36,80)</p> <p>CLAY (CH) - Same color as above, damp, fat, stiff, no petroleum odor (0,0,2,98)</p> <p>same as above, change in color to dark greenish gray (5YG 4/1), with mottled stringers, no petroleum odors</p> <p>Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs</p>	<p>ASPHT</p> <p>CH</p> <p>CL</p>		<p>0</p> <p>5</p> <p>10</p> <p>15</p>			

EPI

Environmental Profiles, Inc
 Los Alamitos, California

Notes:

(5 YR 2/2) Geological Society of America Rock Color Chart,
 Munsell color designation (15,70,10,5) % sample fractions
 estimated in field (gravel, sand, silt, clay)

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- Monoaromatics, BTEX, EPA Method 8020, detection limit 0.3 to 0.6 µg/l
- MTBE, EPA Method 8020, detection limit 2.0 µg/l

4.2 Laboratory Chemical Analysis Results, Groundwater

Results of the laboratory chemical analysis are summarized below in Table 1 - Laboratory Chemical Analysis Results, Groundwater and are presented in Appendix A - Chain of Custody Record and Laboratory Chemical Analysis Reports, Groundwater.

TABLE 3 - LABORATORY CHEMICAL ANALYSIS RESULTS, GROUNDWATER							
Ameriflight, Inc. 9171 Earhart Road Oakland, CA 94621 4-12-2000							
ID	TPH (mg/L)		MTBE (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
	AV FUEL	JET FUEL					
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND	ND	ND

Notes:

- mg/L = milligrams per liter or ppm
 µg/L = micrograms per liter or ppb
 ND = indicates analyte not detected at or above the laboratory detection limit

4.3 Laboratory Quality Control And Quality Assurance

American Scientific Laboratories (ASL) is and operates as a California DHS certified environmental laboratory, and as such follows all appropriate procedures and guidelines for the chemical analysis of groundwater and soil. As part of ASL's quality control and assurance protocol, QA/QC reports are provided along with all laboratory analytical results, and are presented in the appropriate Appendices.

ENVIRONMENTAL PROFILES, INC.

Site Assessments * Remedial Investigation Feasibility Studies * Soil and Water Sample Collection * Compaction Testing

3977

September 5, 2000

Mr. Barney M. Chan
Alameda County
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Additional water analysis at the Ameriflight, Inc. Facility, 9171 Earhart Road,
Oakland, California 94621

Mr. Chan:

Per your written request dated June 23, 2000 Environmental Profiles, Inc., (EPI) collected groundwater samples from well's MW-1, -2, -3, and -6. On August 9, 2000 prior to collecting samples, each well was purged of approximately 3 well volumes and sampled. Each sample was submitted to a State Department of Health Services (DHS) certified environmental laboratory for preparation and analysis as specified in your letter. The results of the analysis are summarized below in Table 1 - Groundwater Sample Analysis, Lead.

TABLE 1 - GROUNDWATER SAMPLE ANALYSIS, LEAD		
Ameriflight, Inc. 9171 Earhart Road Oakland, CA 94621 (8-9-00)		
ID	Organic Lead (mg/L)	Total Soluble Lead (mg/L)
MW-1	na	ND
MW-2	na	ND
MW-3	na	ND
MW-6	na	ND

Notes:

mg/L = milligrams per liter or ppm
ND = indicates analyte not detected at or above the laboratory detection limit of 0.005 mg/l
na = not analyzed