120-004

PACIFIC ENVIRONMENTAL GROUP INC.

December 22, 1997

Thrifty Oil Company
13539 East Foster Road
Santa Fe Springs, California 90670

Subject: Baselining Subsurface Investigation Report
Thrifty Service Station No. 049
3400 San Pablo Avenue
Oakland, California
PACIFIC Project No. 331-006.1A

Dear Thrifty:

PACIFIC Environmental Group, Inc. (PACIFIC) was contracted to conduct a baselining subsurface investigation at the subject site. The purpose of the investigation was to baseline environmentally related subsurface conditions at 3400 San Pablo Avenue, Oakland, CA. Results of the subsurface investigation are summarized in the paragraphs below and in the enclosed attachments.

Scope of Work

On June 9, 1997, PACIFIC visited the site to mark the proposed soil boring locations. Underground Service Alert (USA) was notified of the drilling. In addition to USA, a geophysical company (Norcal Geophysical Consultants, Inc.), visited the site to clear each proposed soil boring location on June 9, 1997. On June 13, 1997 PACIFIC visited the site to collect soil samples beneath each dispenser. A total of ten dispenser samples were collected at the site. On June 13, 1997, PACIFIC conducted site investigation activities in the areas of the underground storage tanks and the dispenser islands, which included drilling ten 10 foot soil borings. See the attached figure for soil boring locations, drilling depths, and dispenser sample collection locations. All soil samples were submitted to Del Mar Analytical, a California Department of Health Services Certified Laboratory, located in Irvine, California. A total of 30 soil samples were relinquished to the laboratory. A total of 30 samples were analyzed for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl *tert*-butyl ether. Results of soil sample analyses are summarized in Table 1. Copies of the certified analytical reports are attached. Standard operating procedures for soil sampling techniques are attached. No evidence of an existing waste-oil tank was found.

Site Geology

Thrifty Station No. 049 is located in the City of Oakland at an elevation of approximately 30 feet above mean sea level. Local topography slopes to the southwest at approximately 0.01 foot per foot (USGS, 1969). The site is situated in the flatland region between the San Francisco Bay and the Oakland Hills. This flatland region is comprised of Quarternary alluvium and estuarine bay and marsh deposits. The site is underlain by Holocene alluvium and marsh deposits comprised of silts and clay (DMG, 1979). Soil types encountered during site investigation activities consisted predominantly of gravelly clay and silt from the ground surface to the total depth of the investigations (10 feet bgs). Groundwater was encountered at approximately 7 feet bgs. Copies of soil boring logs are attached.

Closing Comments

The information contained in this report represents our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

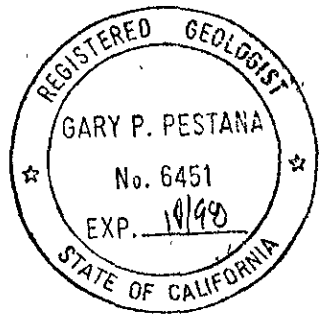
If you should have any questions, please call either of the undersigned at (626) 351-4814.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

Chris Rohlfing
Sr. Staff Geologist

Gary P. Pestana, R.G.
Project Manager



cc: Kateri Luka

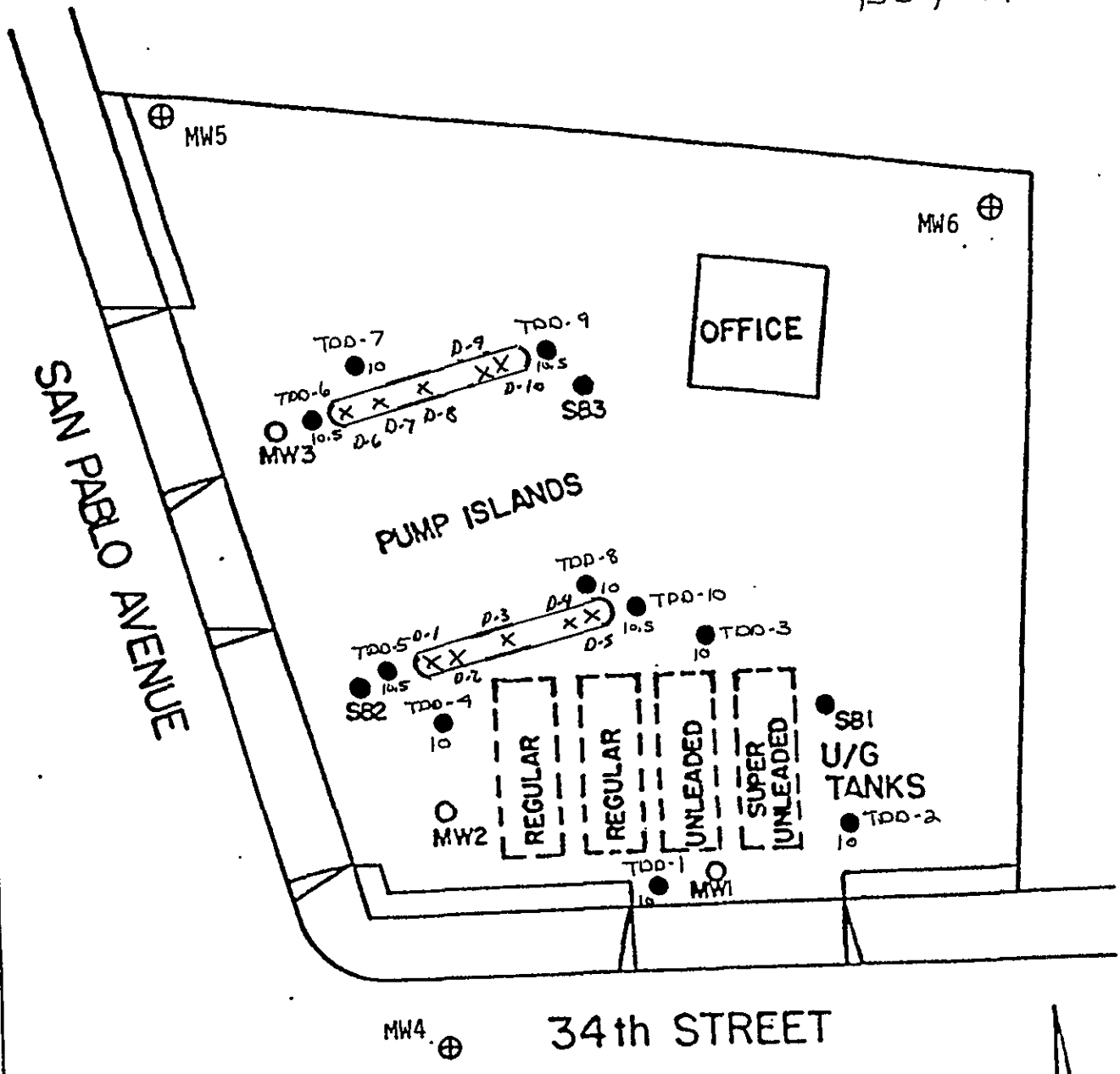
Attachments: Site Plan Showing Soil Boring Locations
Geophysical Site Maps
Table 1: Analytical Summary - Soil Samples
Soil Boring Logs
Laboratory Report and Chain-of-Custody Documentation
Equipment Decontamination Technique
Standard Operating Procedures for Soil Sampling Techniques

References

Divisions of Mines and Geology (DMG), 1979, Geology of Northern California, Bulletin 190.

United States Geological Survey (USGS), 1969, Oakland West Quadrangle, 7.5 minute topographic, photorevised 1980.

9535/049



EXPLANATION

- O MW1 - MONITORING WELL
- ● SB1 - SOIL BORING
- ⊕ Monitoring Wells
- ● 10 Boring and Depth
- X Dispenser Sample

SITE PLAN

Thrifty No. 49

3400 San Pablo Avenue
Oakland, CA

0 25
FEET

PERSONNEL: TAH/RLB

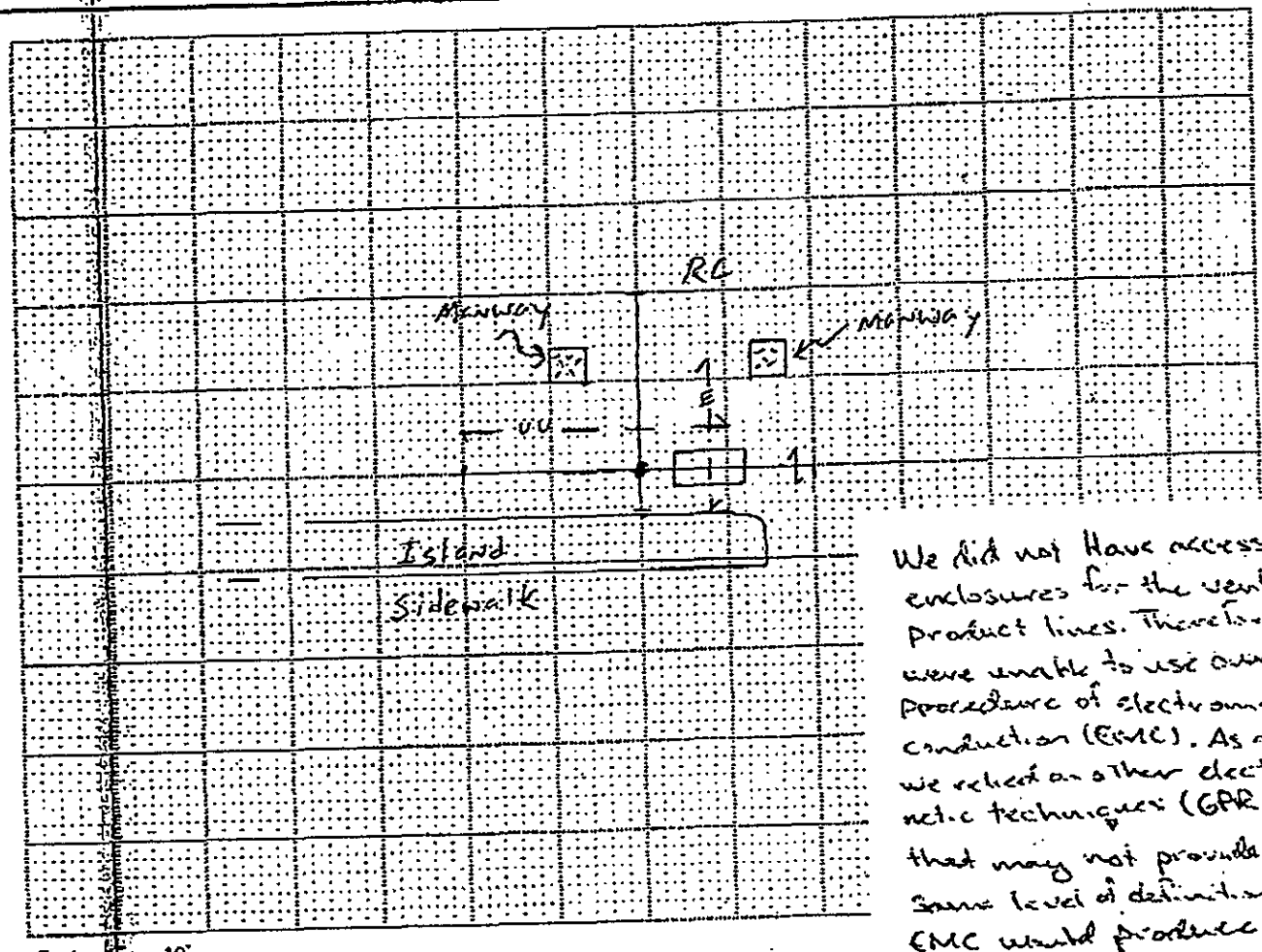
JOB: 97453.01 DATE: 6/9/97

NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 34th Street

BORING: TDD1



Scale: 1" = 10'

We did not Have access to the enclosures for the vent and product lines. Therefore we were unable to use our normal procedure of electromagnetic conduction (EMC). As a result, we relied on other electromagnetic techniques (GPR, EMI) that may not provide the same level of definition that EMC would produce

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- ✓ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N ↑ - effectiveness of M-scope limited due to reinforced concrete

- did not detect sanitary sewer.

PERSONNEL: TAH/RLB

JOB: 97-453-01 | DATE: 6/9/97

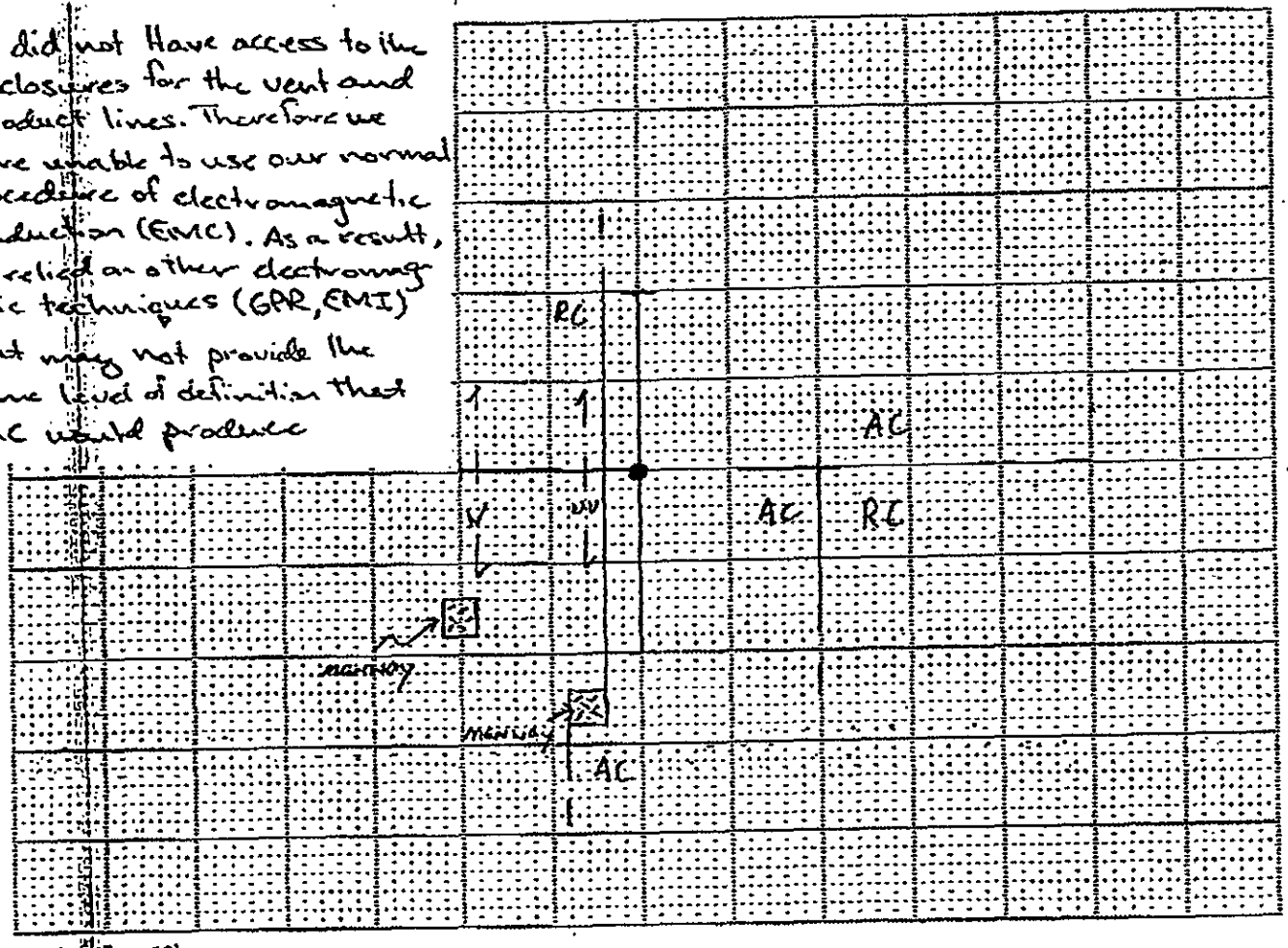
NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas / Oakland
San Pablo and 34th Street

BORING: TD02

We did not Have access to the enclosures for the vent and product lines. Therefore we were unable to use our normal procedure of electromagnetic conduction (EMC). As a result, we relied on other electromagnetic techniques (GPR, EMI) that may not provide the same level of definition that EMC would produce



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- _ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- ✓ W (Water)
- _ FS (Fire Supression)
- ✓ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- ✓ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N

- effectiveness of M-scope limited due to reinforced concrete.
- did not detect sanitary sewer

PERSONNEL: TAH/RLB

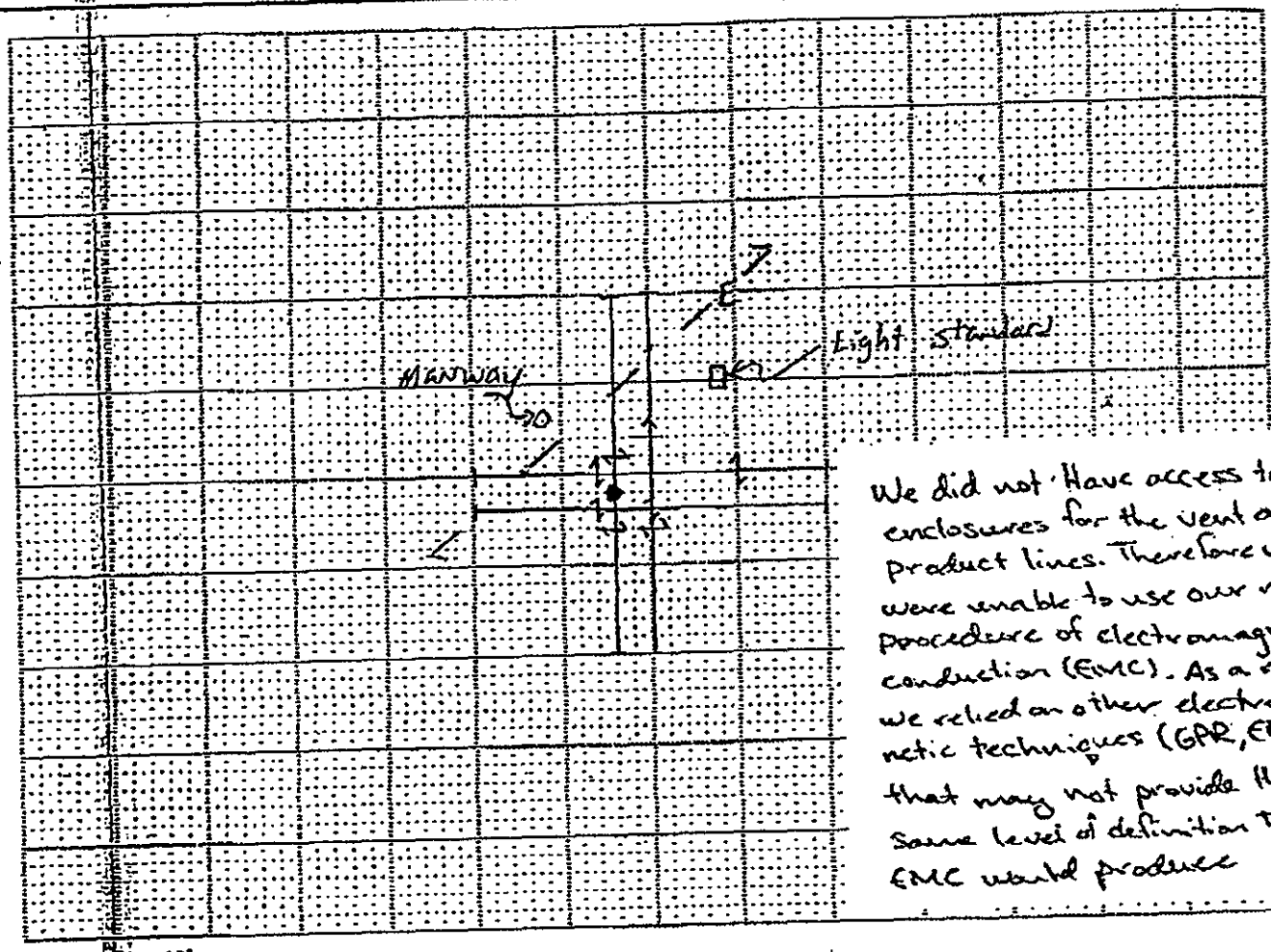
JOB: 97453.01 | DATE: 6/9/97

NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 34th Street

BORING: TDD3



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Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N ↑ - effectiveness of M-Scope limited due to reinforced concrete,
- did not detect sanitary sewer
- ⊢ zone of disturbed Material

PERSONNEL: TAH / RLB

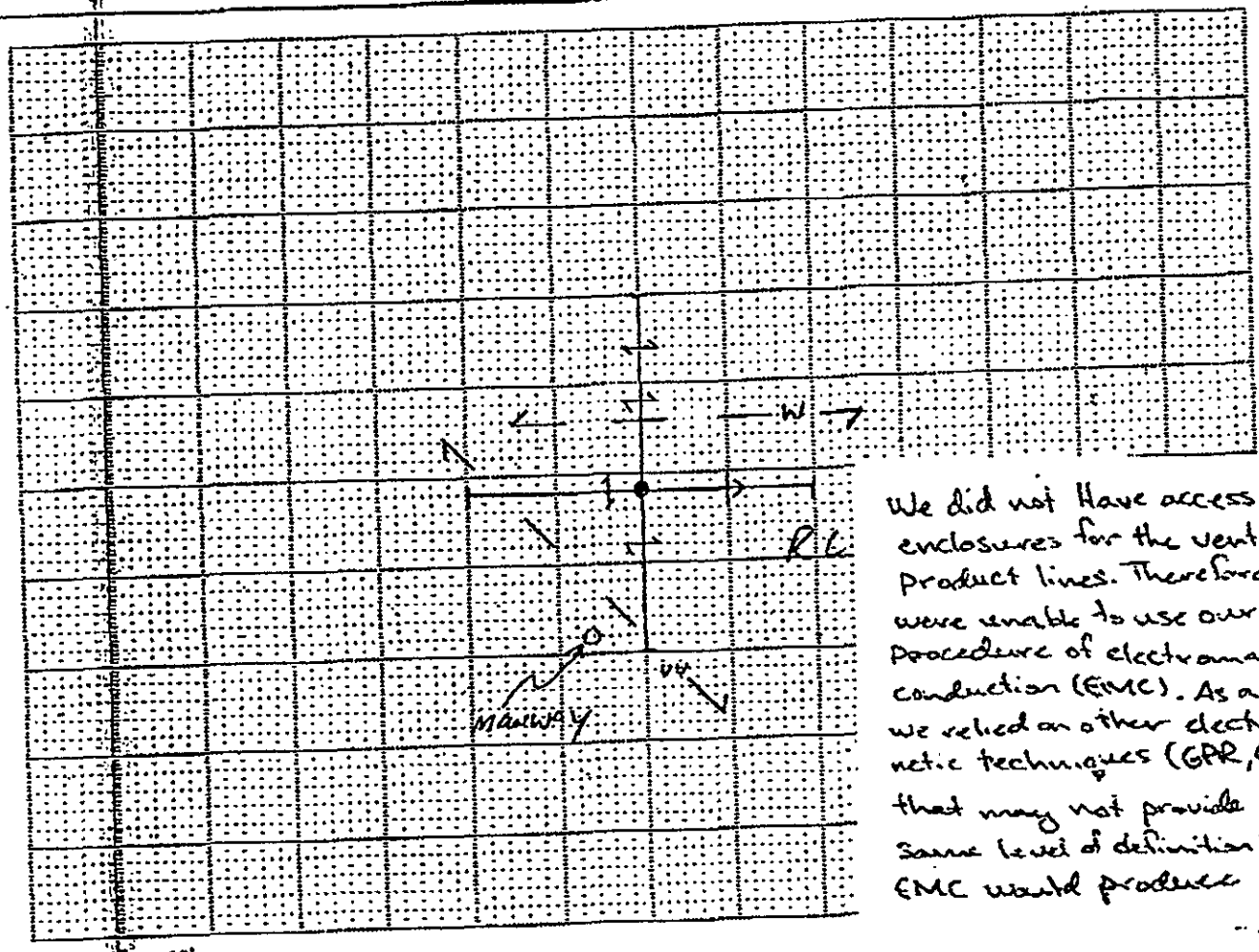
JOB: 97-953.01 DATE: 6/9/97

NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas / Oakland
San Pablo and 54th Street

BORING: TDD4



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EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- _ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- ✓ W (Water)
- _ FS (Fire Supression)
- ✓ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
_ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N ↑ — effectiveness of M-scope limited due to reinforced concrete.

— did not detect sanitary sewer

— |→ zone of disturbed material

PERSONNEL: TAH/RLB

JOB: 97-453.01 DATE: 6/9/97

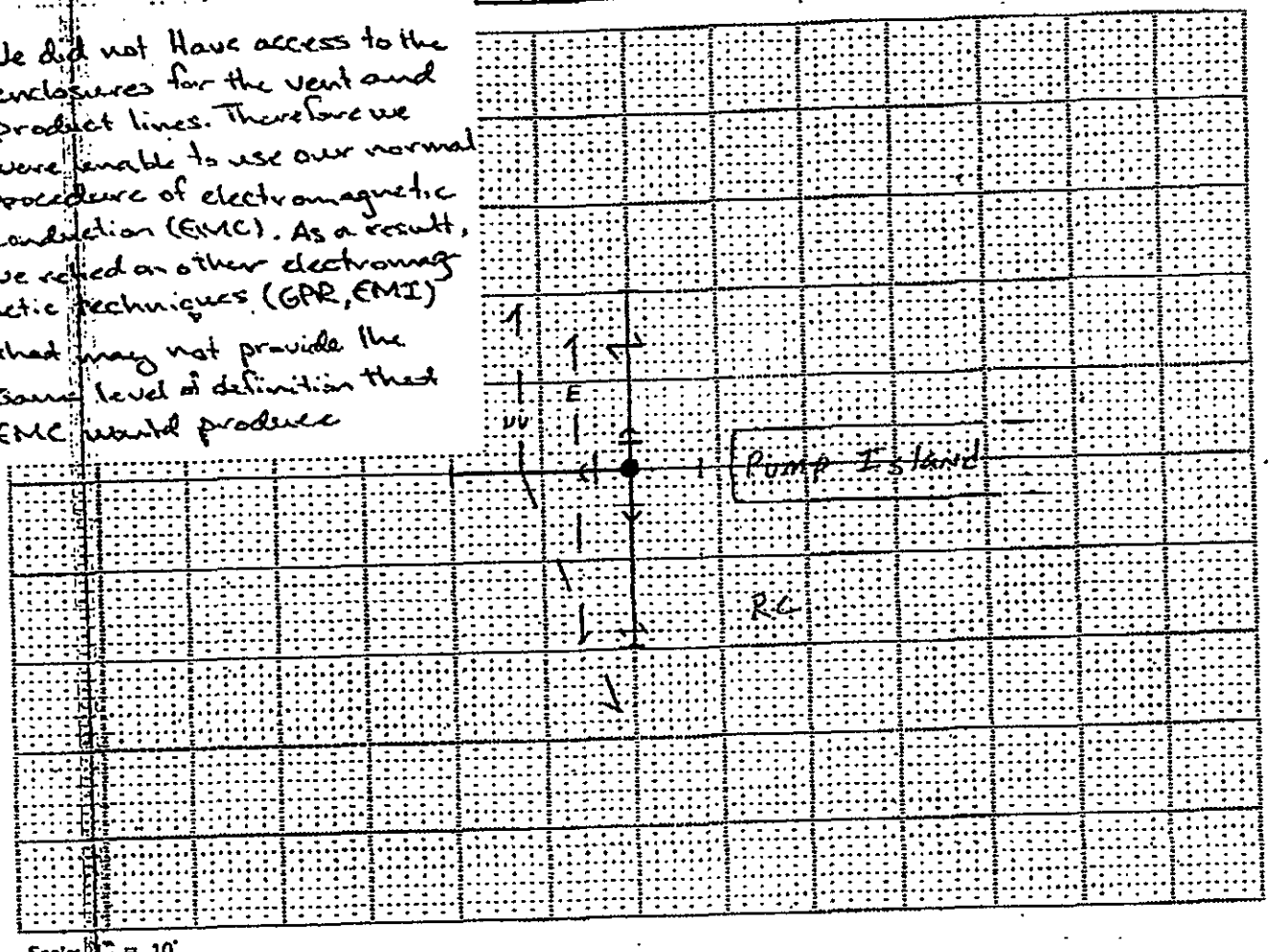
NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 34th Street

BORING: TDD5

We did not Have access to the enclosures for the vent and product lines. Therefore we were unable to use our normal procedure of electromagnetic conduction (EMC). As a result, we relied on other electromagnetic techniques (GPR, EMI) that may not provide the same level of definition that EMC would produce



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- ✓ UU (Undifferentioted Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N - effectiveness of M-scope limited due to reinforced concrete

- did not detect sanitary sewer

- ⊢→ zone of disturbed material.

PERSONNEL: TAH / RLB

JOB: 97-NS3.01 DATE: 6/9/97

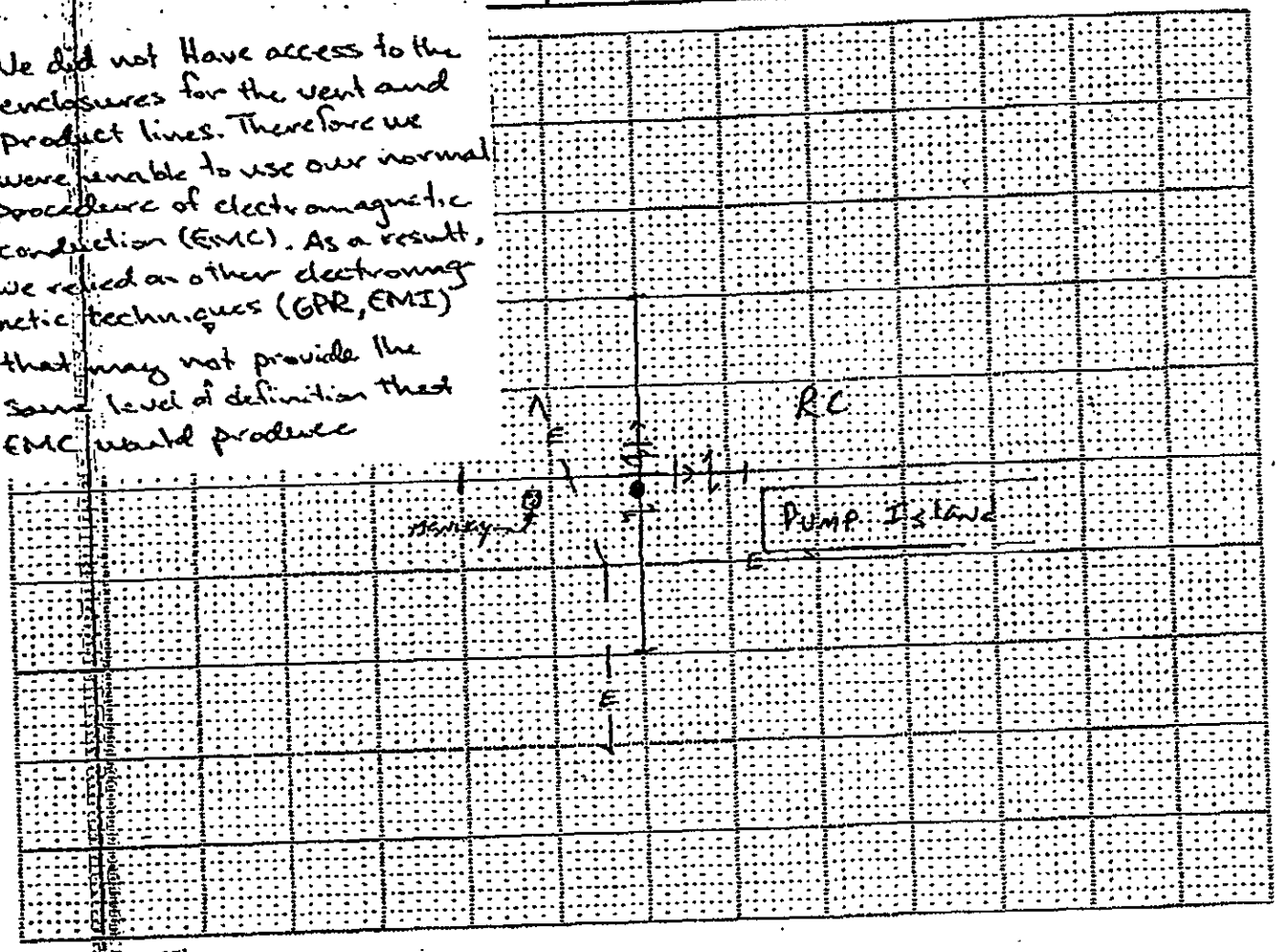
NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 34th Street

BORING: TDD6

We did not Have access to the enclosures for the vent and product lines. Therefore we were unable to use our normal procedure of electromagnetic conduction (EMC). As a result, we relied on other electromagnetic techniques (GPR, EMI) that may not provide the same level of definition that EMC would produce



Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities:

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface:

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N ↑ - effectiveness of M-scope limited due to reinforced concrete,

- did not detect sanitary sewer.

- ⊢ zone of disturbed materials

PERSONNEL: TAH/RLB

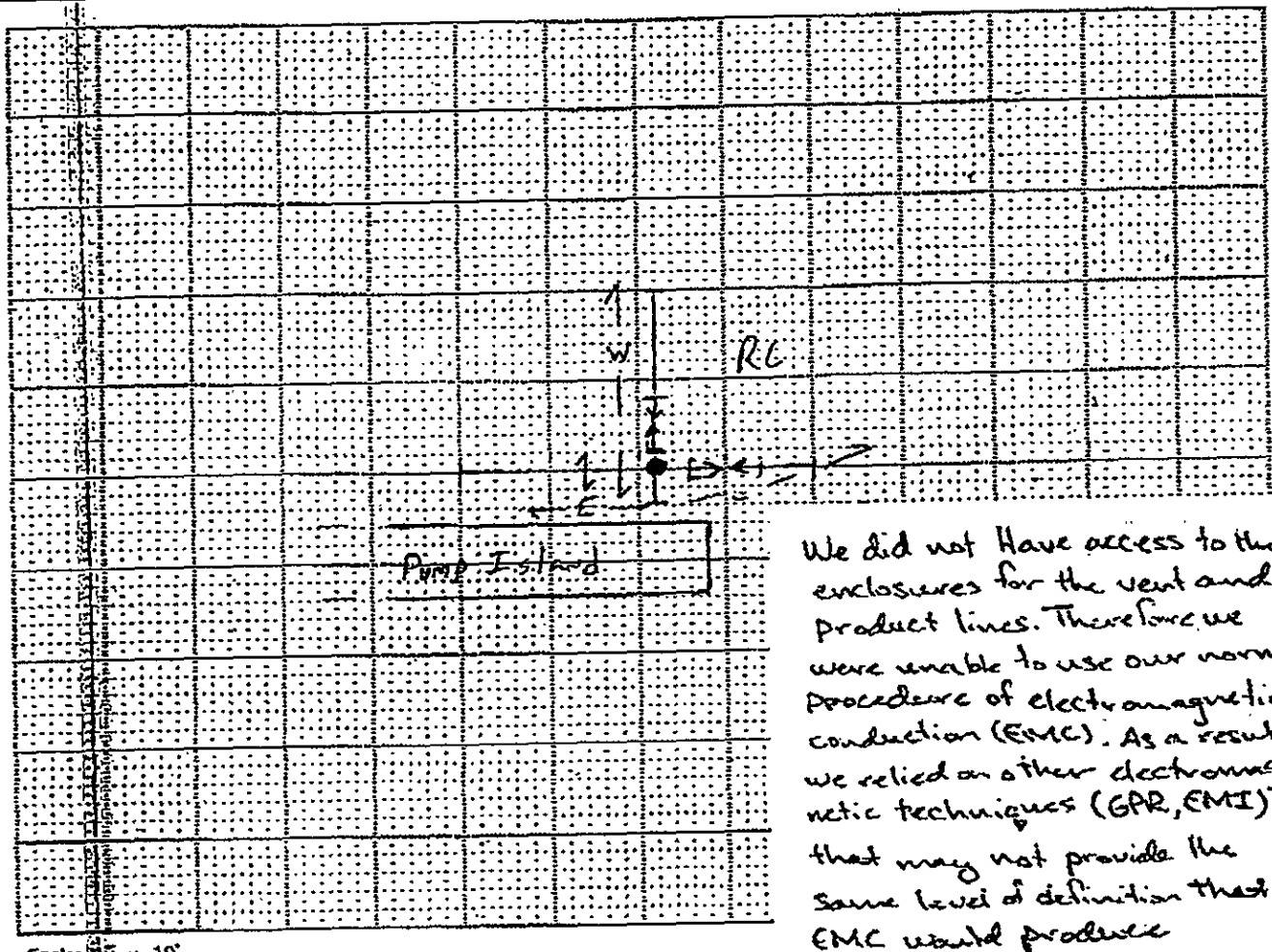
JOB: 97-153.01 DATE: 6/9/97

NORCAL GEOPHYSICAL CONSULTANTS INC

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 54th Street

BORING: TDD8



Scale: 1" = 10'

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EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomoly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- ✓ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
_ RD 400	✓ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N - effectiveness of M-scope limited due to reinforced concrete.

- did not detect sanitary sewer.

⊢↦ ↤⊣ - zone of disturbed material

PERSONNEL: TAH / RLB

JOB: 97453.01 | DATE: 6/9/97

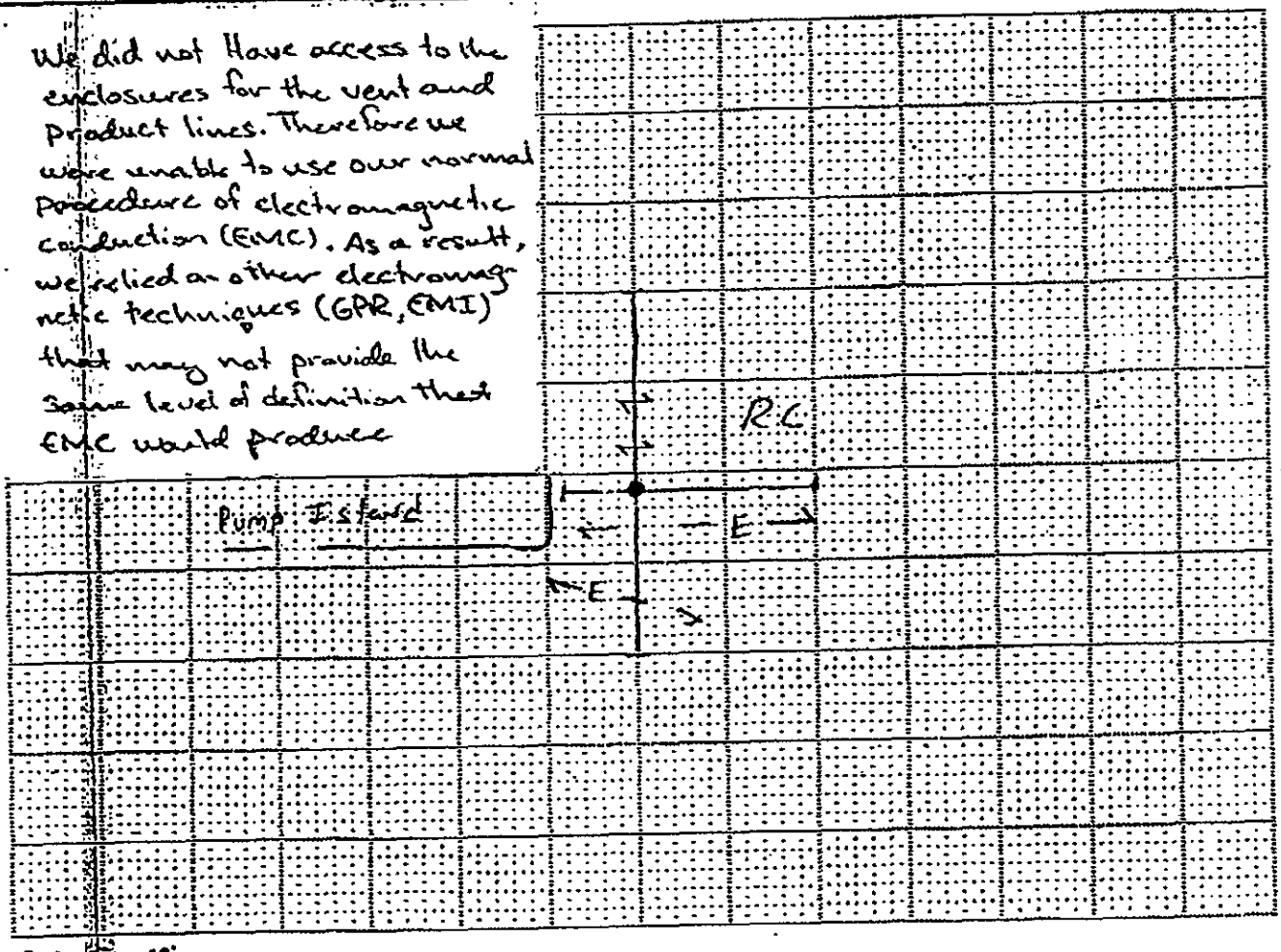
NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas / Oakland
San Pablo and 34th Street

BORING: TDD9

We did not Have access to the enclosures for the vent and product lines. Therefore we were unable to use our normal procedure of electromagnetic conduction (EMC). As a result, we relied on other electromagnetic techniques (GPR, EMI) that may not provide the same level of definition that EMC would produce



Scale: = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- _ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:	Procedure:	Surface Conditions:
✓ GPR (Radar)	_ EMC (Conduction)	_ Wet
✓ RD 400	_ EMI (Induction)	✓ Dry
✓ M Scope	✓ Ambient	_ other
_ other	✓ GPR	

REMARKS

N
1 - effectiveness of M-scope limited due to reinforced concrete.
- did not detect sanitary sewer.

PERSONNEL: TAH/RLB

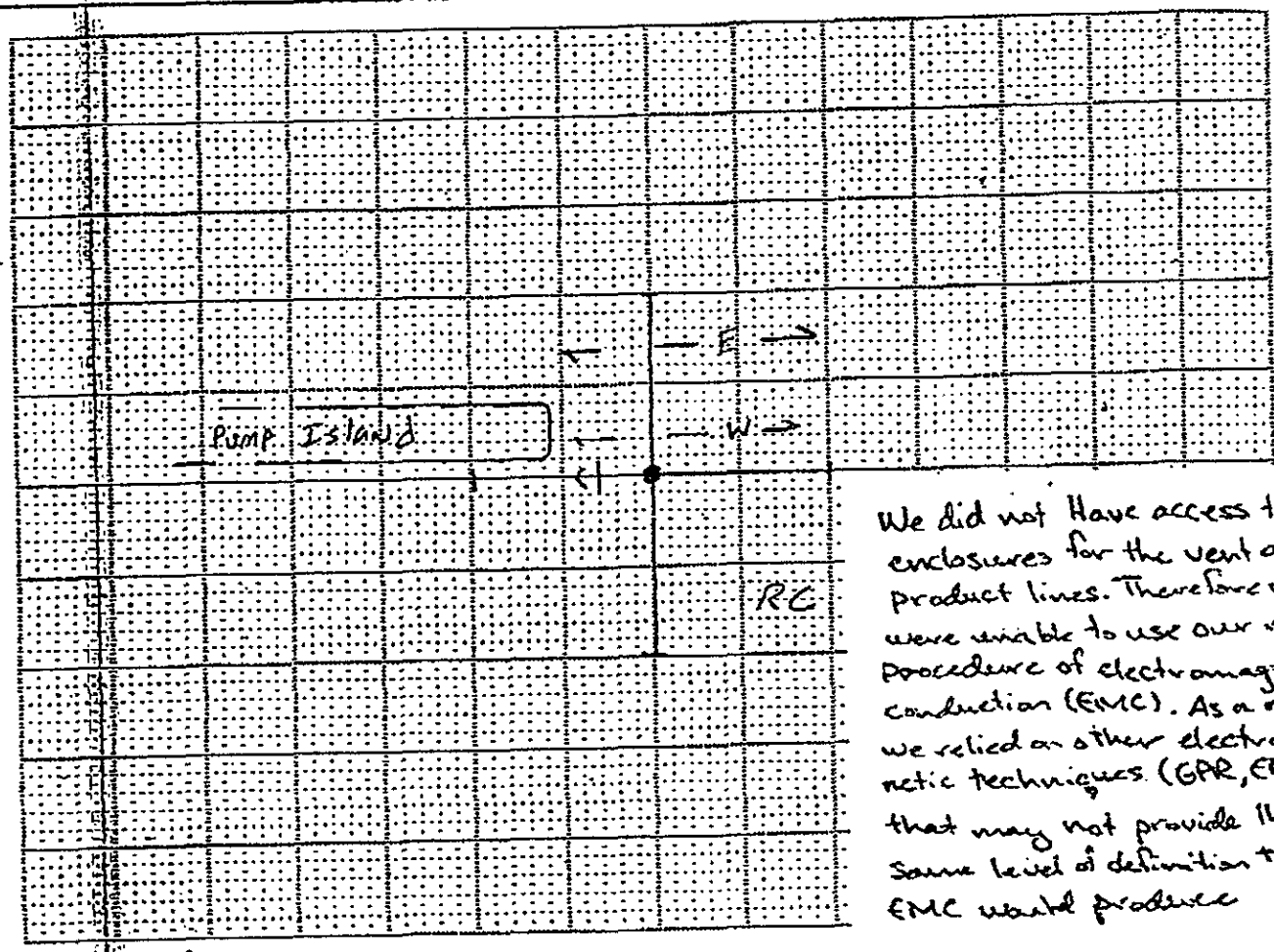
JOB: 97-453.01 DATE: 6/9/97

NORCAL GEOPHYSICAL CONSULTANTS INC.

CLIENT: Pacific Environmental

LOCATION: Thrifty Gas/Oakland
San Pablo and 54th Street

BORING: TDD 10



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Scale: 1" = 10'

EXPLANATION

- Original Boring Location
- Final Boring Location
- GPR Traverse
- Localized GPR Anomaly
- Utility Alignment

Utilities

- _ T (Telephone, Comm.)
- ✓ E (Electric)
- _ NG (Natural Gas)
- _ CA (Compressed Air)
- _ STM (Steam)
- _ SS (Sanitary Sewer)
- _ SD (Storm Drain)
- ✓ W (Water)
- _ FS (Fire Supression)
- _ UU (Undifferentiated Utility)

Surface

- ✓ RC (Reinforced Concrete)
- _ AC (Asphalt)
- _ C (Concrete)
- _ Soil
- _ Gravel
- _ other

NOTES

Equipment:
- ✓ GPR (Radar)
- _ RD 400
- _ M Scope
- _ other

Procedure:
- _ EMC (Conduction)
- ✓ EMI (Induction)
- ✓ Ambient
- ✓ GPR

Surface Conditions:
- _ Wet
- ✓ Dry
- _ other

REMARKS

N
- effectiveness of M-scope limited due to reinforced concrete.
- did not detect sanitary sewer.
- ⊢ zone of disturbed material

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

TABLE 1
ANALYTICAL SUMMARY - SOIL SAMPLES
Thrifty 049
3400 SAN PABLO AVE
OAKLAND, CALIFORNIA

Sample I.D.	Sampled	TPHg	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
		Concentration (mg/Kg)					
TDD1-5'	6/13/97	370	1.7	21	5.4	37	280
TDD1-10'	6/13/97	6.1	<0.015	0.055	0.020	0.15	1.4
TDD2-5'	6/13/97	480	1.2	1.9	3.3	8.2	<1.0
TDD2-10'	6/13/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD3-5'	6/13/97	1,700	9.2	4.6	27	140	5.0
TDD3-10'	6/13/97	210	0.75	0.74	1.7	7.9	1.3
TDD4-5'	6/13/97	2,800	12	24	38	200	15
TDD4-10'	6/13/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD5-5'	6/13/97	740	0.92	2.1	9.8	28	5.9
TDD5-10'	6/13/97	<1.0	0.082	<0.0050	0.028	<0.015	<1.0
TDD6-5'	6/13/97	130	0.34	0.26	1.7	4.5	2.7
TDD6-10'	6/13/97	<1.0	0.032	<0.0050	0.032	<0.015	<1.0
TDD7-5'	6/13/97	16	0.10	0.12	0.35	1.3	1.3
TDD7-10'	6/13/97	<1.0	0.026	<0.0050	0.030	<0.015	1.0
TDD8-5'	6/13/97	420	0.24	0.91	5.6	20	<1.0
TDD8-10'	6/13/97	<1.0	0.020	<0.0050	0.022	<0.015	<1.0
TDD9-5'	6/13/97	2,000	6.2	5.1	30	140	4.2
TDD9-10'	6/13/97	<1.0	<0.0050	<0.0050	0.0050	<0.015	<1.0
TDD10-5'	6/13/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD10-10'	6/13/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0

Revised: 8/7/97

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
Project Manager

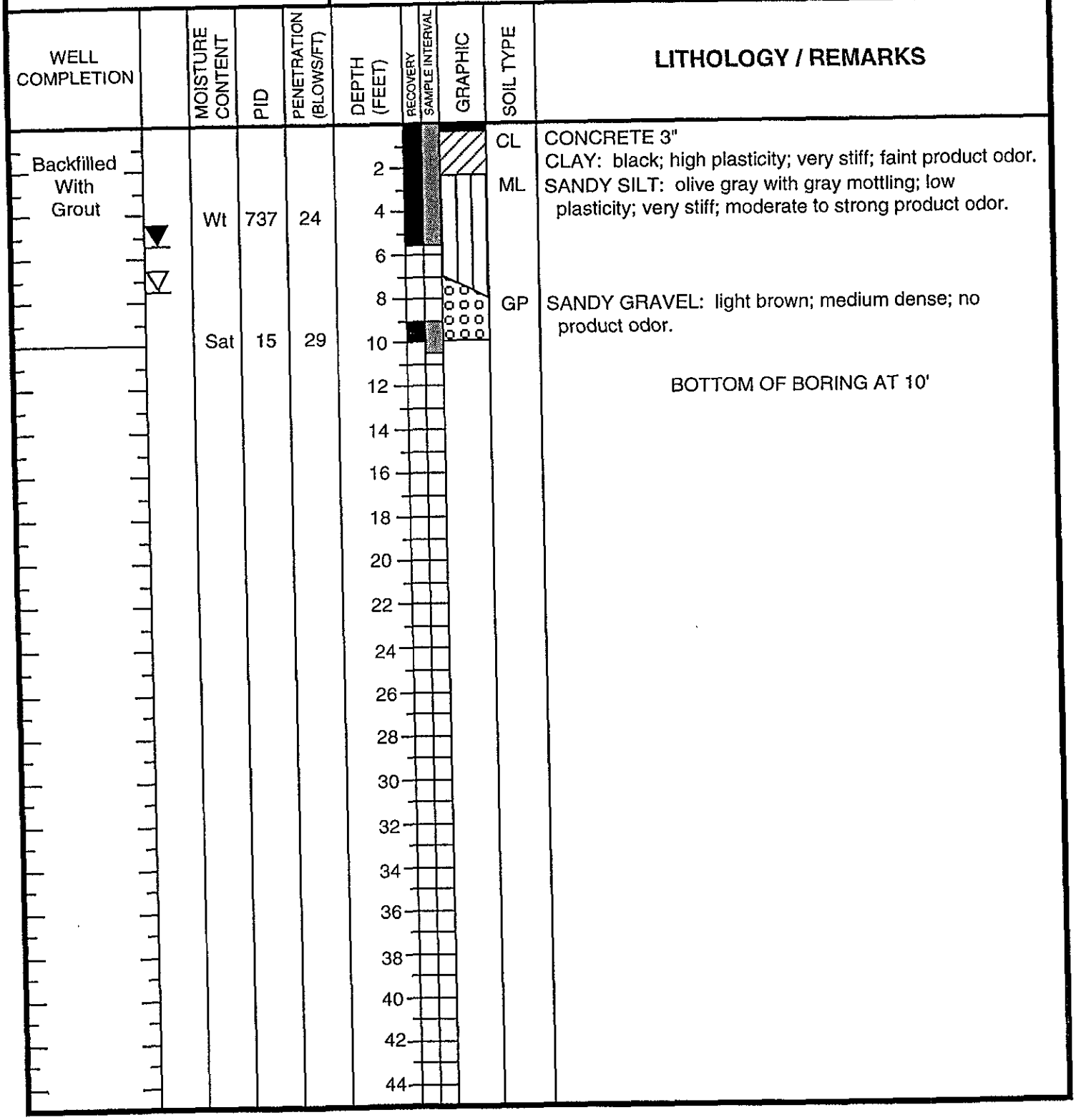
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-1
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10'



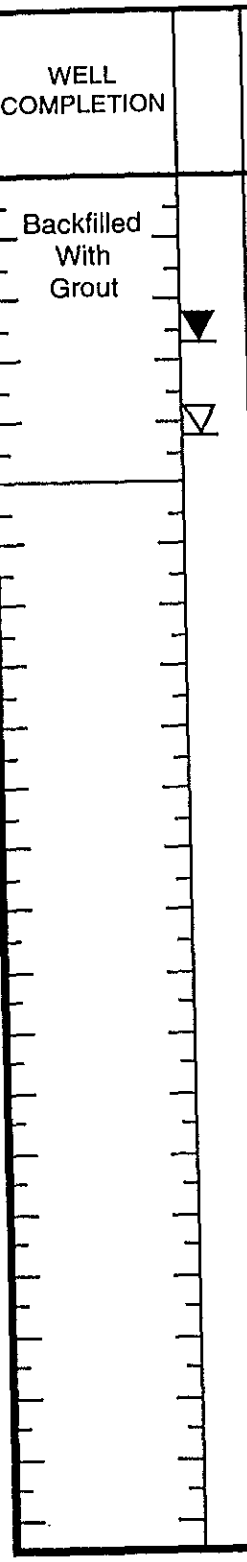
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-2
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10'



MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
			0	ML	ASPHALT 3"; FILL MATERIAL 9"
			2		SANDY SILT: dark greenish gray; low plasticity; faint to moderate product odor.
Wt	510	43	4		
			6		@5': as above; hard; moderate product odor.
			8	ML	GRAVELLY SILT: dark yellowish brown; hard; no product odor.
Sat	0	>72	10		
			12		BOTTOM OF BORING AT 10'
			14		
			16		
			18		
			20		
			22		
			24		
			26		
			28		
			30		
			32		
			34		
			36		
			38		
			40		
			42		
			44		

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-3
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10'

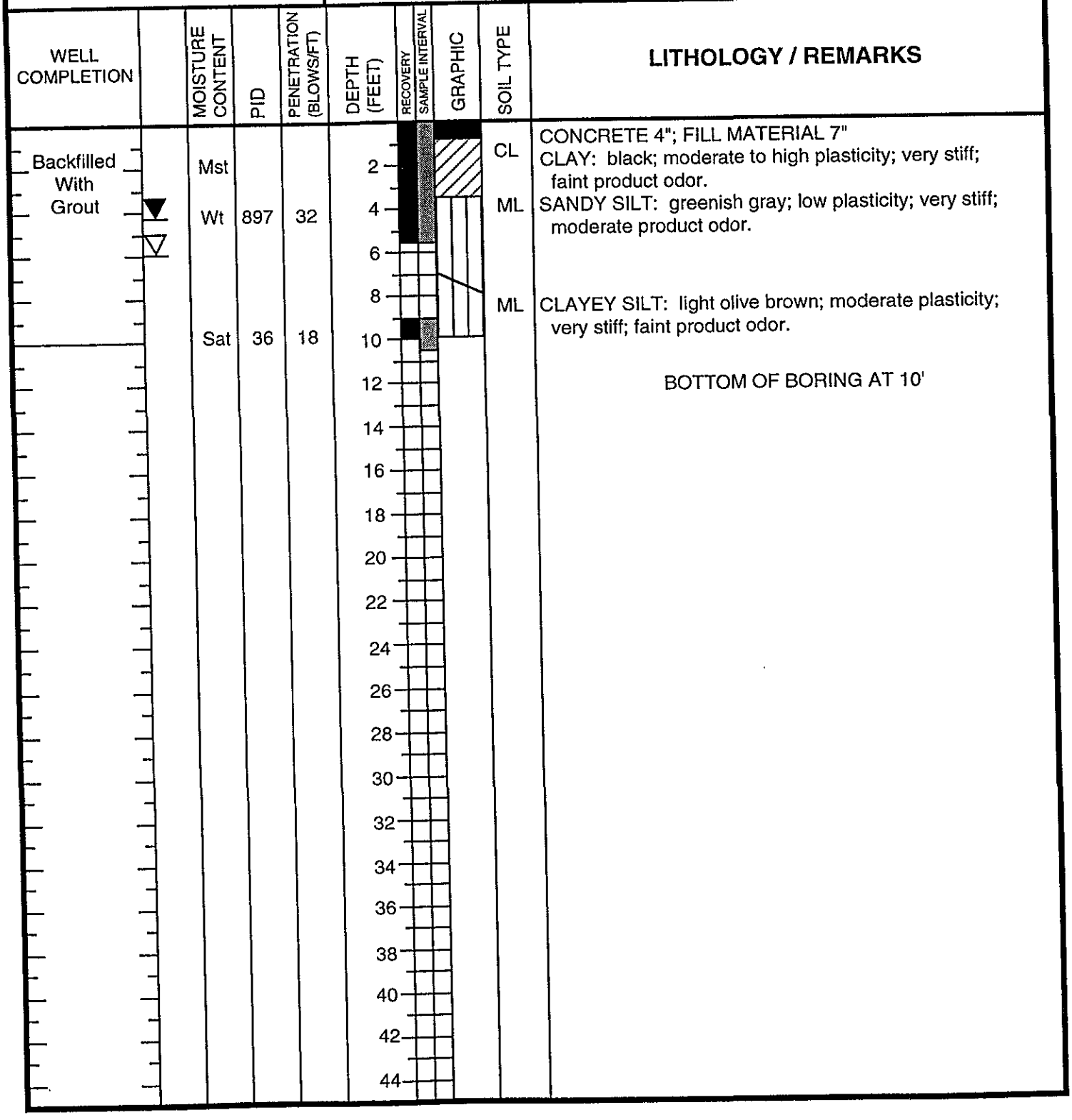
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout	Mst			2				ML	ASPHALT 4"; FILL MATERIAL 4"
	Wt	131	42	4					CLAYEY SILT: light olive brown; low plasticity; hard; faint product odor.
				6					@5': as above; hard; faint product odor.
				8					
	Sat	0	>72	10					@10': as above; no product odor.
				12					BOTTOM OF BORING AT 10'
				14					
				16					
				18					
				20					
				22					
				24					
				26					
				28					
				30					
				32					
				34					
				36					
				38					
				40					
				42					
				44					

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-4
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-5
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10.5'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout	Mst			2				CL	CONCRETE 4"
	Mst-Wt	1,327	24	4					CLAY: black; moderate to high plasticity; soft; moderate to strong product odor.
				6				ML	SANDY SILT: greenish gray; very stiff; moderate to strong product odor.
				8					
	Sat	93	27	10					@10': yellowish brown; very stiff; faint product odor.
				12					BOTTOM OF BORING AT 10.5'
				14					
				16					
				18					
				20					
				22					
				24					
				26					
				28					
				30					
				32					
				34					
				36					
				38					
				40					
				42					
				44					

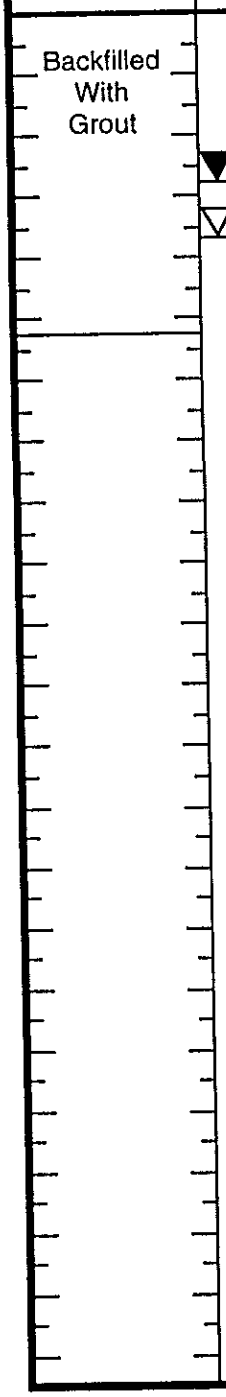
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-6
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10.5'



MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
			0		CONCRETE 4"
Mst			2	CL	GRAVELLY CLAY: black; faint to moderate product odor.
Wt	1,372	21	4	ML	SANDY SILT: greenish gray; very stiff; moderate product odor.
			6		
			8		
Sat	375	28	10		@10': olive brown; low plasticity; very stiff; faint to moderate product odor.
			12		BOTTOM OF BORING AT 10.5'
			14		
			16		
			18		
			20		
			22		
			24		
			26		
			28		
			30		
			32		
			34		
			36		
			38		
			40		
			42		
			44		

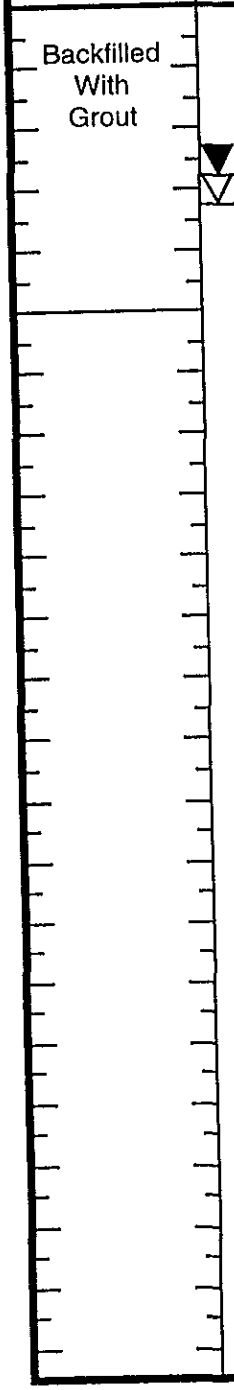
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-7
PAGE 1 OF 1

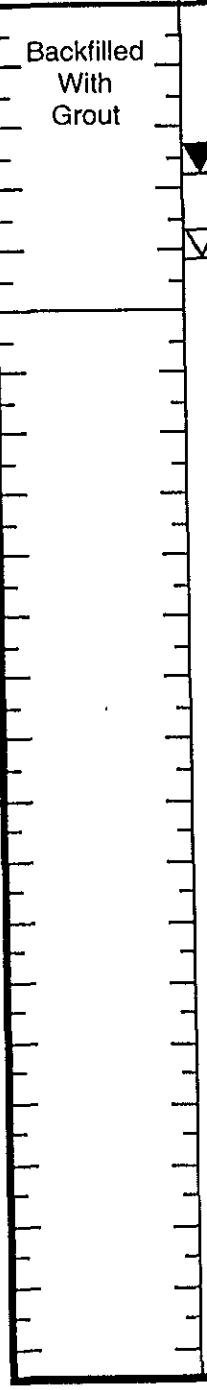
PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10'



MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Mst			2				CL	CONCRETE 5" GRAVELLY CLAY: black; moderate plasticity; very stiff; faint to moderate product odor.
Wt			4					
			6				ML	SANDY SILT: yellowish brown; low plasticity; faint product odor.
Sat			8					
Sat			10					BOTTOM OF BORING AT 10'
			12					
			14					
			16					
			18					
			20					
			22					
			24					
			26					
			28					
			30					
			32					
			34					
			36					
			38					
			40					
			42					
			44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-8
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout	Mst			2				CL	CONCRETE 4" CLAY: black; moderate to high plasticity; very stiff; faint to moderate product odor.
	Wt			4					
				6				ML	SANDY SILT: olive brown; low plasticity; very stiff; faint product odor.
	Sat			8					
	Sat			10					BOTTOM OF BORING AT 10'
				12					
				14					
				16					
				18					
				20					
				22					
				24					
				26					
				28					
				30					
				32					
				34					
				36					
				38					
				40					
				42					
				44					

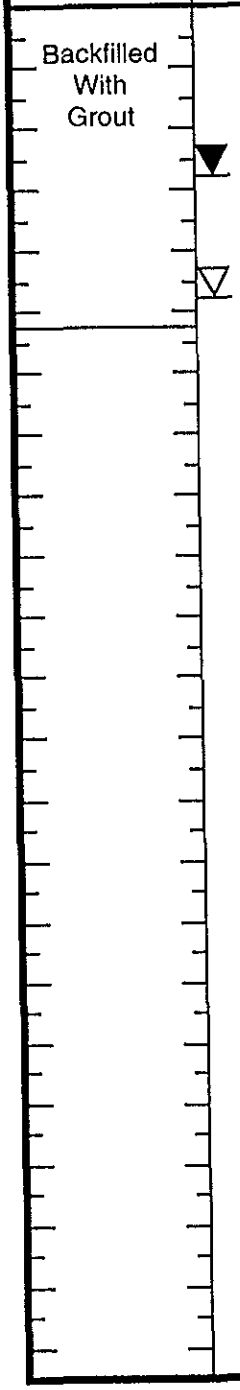
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-9
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10.5'



MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
			0		CONCRETE 6"
Mst			2	CL	GRAVELLY CLAY: black; moderate plasticity; very stiff; faint product odor.
Wt	527	35	4	ML	SANDY SILT: greenish gray; very stiff; faint to moderate product odor.
			6		
			8		
Sat	127	38	10		@10': yellowish brown with gray staining; very stiff; faint product odor.
			12		BOTTOM OF BORING AT 10.5'
			14		
			16		
			18		
			20		
			22		
			24		
			26		
			28		
			30		
			32		
			34		
			36		
			38		
			40		
			42		
			44		

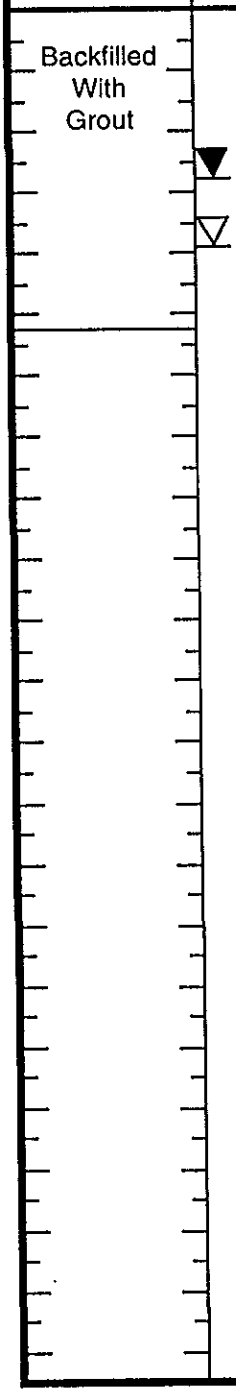
LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-10
PAGE 1 OF 1

PROJECT NO. 331-006.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 049
DATE DRILLED: 6-13-97
LOCATION: 3400 San Pablo AVe.
HOLE DIAMETER: 8"
HOLE DEPTH: 10.5'



MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
					CONCRETE 6"
Mst			2	CL	GRAVELLY CLAY: black; very stiff; faint product odor.
Wt	127	37	4	ML	SANDY SILT: greenish gray; low plasticity; very stiff; faint to moderate product odor.
			6		
			8		
Sat	15	45	10		@10': yellowish brown; hard; no to faint product odor.
			12		BOTTOM OF BORING AT 10.5'
			14		
			16		
			18		
			20		
			22		
			24		
			26		
			28		
			30		
			32		
			34		
			36		
			38		
			40		
			42		
			44		

RECOVERY
SAMPLE INTERVAL
GRAPHIC

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03604

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 27, 1997
Analyzed: Jun 27, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03604	TDD6-5'	130	0.34	0.26	1.7	4.5
Reporting Limit:		**20**	**0.10**	**0.10**	**0.10**	**0.30**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 20.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03605

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 25-26, 1997
Analyzed: Jun 25-26, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03605	TDD6-10'	N.D.	0.032	N.D.	0.032	N.D.
GF03606	TDD7-5'	16	0.10	0.12	0.35	1.3
GF03607	TDD7-10'	N.D.	0.026	N.D.	0.030	N.D.
GF03609	TDD8-10'	N.D.	0.020	N.D.	0.022	N.D.
GF03611	TDD9-10'	N.D.	N.D.	N.D.	0.0050	N.D.
GF03612	TDD10-5'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03613	TDD10-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03617	TDD2-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03619	TDD3-10'	210	0.75	0.74	1.7	7.9
GF03621	TDD4-10'	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limit:		**1.0**	**0.0050**	**0.0050**	**0.0050**	**0.015**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
Project Manager

Del Mar Analytical

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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03608

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 25, 1997
Analyzed: Jun 25, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03608	TDD8-5'	420	0.24	0.91	5.6	20
GF03614	TDD1-5'	370	1.7	21	5.4	37
GF03616	TDD2-5'	480	1.2	1.9	3.3	8.2
Reporting Limit:		**12**	**0.060**	**0.060**	**0.060**	**0.18**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 12.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03610

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 26, 1997
Analyzed: Jun 26, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03610	TDD9-5'	2,000	6.2	5.1	30	140
Reporting Limit:		**60**	**0.30**	**0.30**	**0.30**	**0.90**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 60.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03614

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 26, 1997
Analyzed: Jun 26, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03615	TDD1-10'	6.1	N.D.	0.055	0.020	0.15
Reporting Limit:		**3.0**	**0.015**	**0.015**	**0.015**	**0.045**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 3.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03617

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 25, 1997
Analyzed: Jun 25, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03623	TDD5-10'	N.D.	0.082	N.D.	0.028	N.D.
Reporting Limit:		**1.0**	**0.0050**	**0.0050**	**0.0050**	**0.015**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
Project Manager

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03618

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 26, 1997
Analyzed: Jun 26, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03618	TDD3-5'	1,700	9.2	4.6	27	140
GF03620	TDD4-5'	2,800	12	24	38	200
Reporting Limit:		**75**	**0.38**	**0.38**	**0.38**	**1.1**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 75.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01 049, Oakland
Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: GF03622

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 26, 1997
Analyzed: Jun 26, 1997
Reported: Jun 30, 1997

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Soil	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GF03622	TDD5-5'	740	0.92	2.1	9.8	28
Reporting Limit:		**30**	**0.15**	**0.15**	**0.15**	**0.45**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit. Due to matrix effects and/or other factors, the sample required dilution. Reporting limits for this sample have been raised by a factor of 30.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/8020
First Sample #: GF03604

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 25-27, 1997
Analyzed: Jun 25-27, 1997
Reported: Jun 30, 1997

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Soil	Sample Result mg/Kg (ppm)
GF03604	TDD6-5'	2.7
GF03605	TDD6-10'	N.D.
GF03606	TDD7-5'	1.3
GF03607	TDD7-10'	1.0
GF03608	TDD8-5'	N.D.
GF03609	TDD8-10'	N.D.
GF03610	TDD9-5'	4.2
GF03611	TDD9-10'	N.D.
GF03612	TDD10-5'	N.D.
GF03613	TDD10-10'	N.D.

Reporting Limit:	1.0

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Celebrating 10 years of service 1987-1997

Nancy Johnson
Project Manager

Del Mar Analytical

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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Client Project ID: Thrifty Work Auth. #9535-97-01
049, Oakland
Analysis Method: EPA 5030/8020
First Sample #: GF03614

Sampled: Jun 13, 1997
Received: Jun 19, 1997
Extracted: Jun 25-26, 1997
Analyzed: Jun 25-26, 1997
Reported: Jun 30, 1997

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Soil	Sample Result mg/Kg (ppm)
GF03614	TDD1-5'	280
GF03615	TDD1-10'	1.4
GF03616	TDD2-5'	N.D.
GF03617	TDD2-10'	N.D.
GF03618	TDD3-5'	5.0
GF03619	TDD3-10'	1.3
GF03620	TDD4-5'	15
GF03621	TDD4-10'	N.D.
GF03622	TDD5-5'	5.9
GF03623	TDD5-10'	N.D.

Reporting Limit:	**1.0**

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Method Blank

Extracted: Jun 25-27, 1997
Analyzed: Jun 25-27, 1997
Reported: Jun 30, 1997
Matrix: Soil

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Description	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
Method Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limit:	**1.0**	**0.0050**	**0.0050**	**0.0050**	**0.015**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
Project Manager

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Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana

Method Blank

Extracted: Jun 25-27, 1997
Analyzed: Jun 25-27, 1997
Reported: Jun 30, 1997
Matrix: Soil

MTBE (EPA 8020 MODIFIED)

Laboratory Description	Sample Result mg/Kg (ppm)
Method Blank	N.D.

Reporting Limit:	**1.0**

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
Project Manager

Del Mar Analytical

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2465 W. 12th St , Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA Method 8015/8020

Matrix: Soil

Date: 06/27/97

Sample #: GF03063

Batch #: GF27191S

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppm	ppm	ppm	ppm	%	%	%	%	RPD	Mean PR
TPH	0	1.1	1.0	1.0	91	93	1.7	92	≤30	80 - 122
Benzene	0	0.10	0.093	0.091	93	91	2.7	92	≤10	85 - 116
Toluene	0	0.10	0.095	0.092	95	92	3.2	93	≤10	84 - 115
Ethylbenzene	0	0.10	0.094	0.091	94	91	3.0	93	≤10	85 - 116
Xylenes	0	0.30	0.29	0.28	95	92	3.3	94	≤12	85 - 116

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits ..... Determined by in-house Control Charts

Del Mar Analytical

Work Auth #9535-97-01

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-006.1A

Facility No. Tosco #49 | Facility Address: 3400 San Pablo Ave, Oakland | Billing Refence Number:

CLIENT engineer: | PACIFIC Point of Contact: Gary Pastana | Sampler: Doug Andrews | Laboratory Name: Del Mar Analytical

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water S=soil A=air)	Type (G=grab D=disc. C=comp.)	Sampling Date	Sampling Time	BTEX/VPHgas (8015/8020) + MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/8240)	SVOC (EPA 627/8270)	HVOC (EPA 601/8010)				Comments:
✓TDD6-5'	1	2"x6" brass	NP	S	D	6-13-97		X										
✓TDD6-10'	↓	↓	↓	↓	↓	↓		↓										
✓TDD7-5'	↓	↓	↓	↓	↓	↓		↓										
✓TDD7-10'	↓	↓	↓	↓	↓	↓		↓										
✓TDD8-5'	↓	↓	↓	↓	↓	↓		↓										
✓TDD8-10'	↓	↓	↓	↓	↓	↓		↓										
✓TDD9-5'	↓	↓	↓	↓	↓	↓		↓										
✓TDD9-10'	↓	↓	↓	↓	↓	↓		↓										
✓TDD10-5'	↓	↓	↓	↓	↓	↓		↓										
✓TDD10-10'	↓	↓	↓	↓	↓	↓		↓										

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
Doug Andrews	6-18-97	10:00am	Kresey Flesores	6/18/97	1600
Kresey Flesores	6/18/97	1620	Marcos Lemus / FedEx from	6-19-97	11:30
Marcos Lemus	6-19-97	12:50			
			Received by laboratory [signature]	6/19/97	12pm

INTACT / ON ICE

Mail original Analytical Report to:

Pacific Environmental Group

- [X] 2025 Gateway Place #440 San Jose, CA 95110
- [ ] 620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523
- [ ] 25725 Jeronimo Rd. #576C Mission Viejo, CA 92822
- [ ] 4020 148th Ave NE #B Redmond, WA 98052

Turnaround Time:

- [ ] Priority Rush (1 day)
- [ ] Rush (2 days)
- [ ] Expedited (5 days)
- [X] Standard (10 days)
- [ ] As Contracted

THRIFTY Oil Company, 10,000 Lakewood Blvd, Downey, CA

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331-006-1A

Facility No. Thrifty Station #49 | Facility Address: 3400 San Pablo Ave, Oakland | Billing Refence Number:

CLIENT engineer: | PACIFIC Point of Contact: Gary McStam | Sampler: Jerry Andrus | Laboratory Name: Del Mar Analytical

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	W=water S=soil A=air Matrix	G=grab D=disc. C=comp. Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020) + MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
TDD1 -5'	1	2 1/2 x 6 Brass	NP	S	D	6-13-97		X							
TDD1 -10'	↓	↓	↓	↓	↓	↓		↓							
TDD2 -5'															
TDD2 -10'															
TDD3 -5'															
TDD3 -10'															
TDD4 -5'															
TDD4 -10'															
TDD5 -5'															
TDD5 -10'	↓	↓	↓	↓	↓	↓		↓							

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:
Pacific Environmental Group
2025 Gateway Place #440, San Jose, CA 95110 [X]
620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 [ ]
25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622 [ ]
4020 148th Ave NE #B, Redmond, WA 98052 [ ]

Turnaround Time:
Priority Rush (1 day) [ ]
Rush (2 days) [ ]
Expedited (5 days) [ ]
Standard (10 days) [X]
As Contracted [ ]

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6-18-97	10:00am	Kristy Hanna	6/18/97	1600
Kristy Hanna	6/18/97	16:20	Marcel Lemus from FedEx	6-19-97	11:30
Marcel Lemus	6-19-97	12:50			
	Date:	Time	Received by laboratory	6/19/97	12:50 pm

INTACT ON ICE

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Gary Pestana

Client Proj. ID: 331-006.1A/3400 San Pablo Ave
Sample Descript: D-1
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9706931-01

Sampled: 06/13/97
Received: 06/17/97
Extracted: 06/19/97
Analyzed: 06/19/97
Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.0**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Weathered Gas		**C10-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90
4-Bromofluorobenzene	60	140	102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-2	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-02	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/K	Sample Results mg/K
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.022**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95
4-Bromofluorobenzene	60	140	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-3	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-03	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Weathered Gas		**C10-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97
4-Bromofluorobenzene	60	140	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-4	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/20/97
Attention: Gary Pestana	Lab Number: 9706931-04	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.0**	**11**
Methyl t-Butyl Ether	0.050	N.D.
Benzene	0.010	N.D.
Toluene	**0.010**	**0.038**
Ethyl Benzene	**0.010**	**0.025**
Xylenes (Total)	**0.010**	**0.24**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106
4-Bromofluorobenzene	60	140	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-5	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-05	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**3.4**
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.026**
Ethyl Benzene	**0.0050**	**0.011**
Xylenes (Total)	**0.0050**	**0.12**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94
4-Bromofluorobenzene	60	140	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-6	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-06	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**3.8**
Methyl t-Butyl Ether	**0.025**	**0.33**
Benzene	**0.0050**	**0.0092**
Toluene	**0.0050**	**0.014**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.052**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95
4-Bromofluorobenzene	60	140	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-7	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-07	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**200**
Methyl t-Butyl Ether	**0.25**	**0.37**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.15**
Ethyl Benzene	**0.050**	**0.52**
Xylenes (Total)	**0.050**	**17**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100
4-Bromofluorobenzene	60	140	300 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-8	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-08	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	15
Methyl t-Butyl Ether	0.025	0.17
Benzene	0.0050	0.023
Toluene	0.0050	0.078
Ethyl Benzene	0.0050	0.026
Xylenes (Total)	0.0050	1.3
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101
4-Bromofluorobenzene	60	140	129

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-9	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-09	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**65**
Methyl t-Butyl Ether	0.12	N.D.
Benzene	0.025	N.D.
Toluene	**0.025**	**0.047**
Ethyl Benzene	0.025	N.D.
Xylenes (Total)	**0.025**	**0.16**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90
4-Bromofluorobenzene	60	140	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 331-006.1A/3400 San Pablo Ave	Sampled: 06/13/97
2025 Gateway Place, Suite 440	Sample Descript: D-10	Received: 06/17/97
San Jose, CA 95110	Matrix: SOLID	Extracted: 06/19/97
	Analysis Method: 8015Mod/8020	Analyzed: 06/19/97
Attention: Gary Pestana	Lab Number: 9706931-10	Reported: 06/29/97

QC Batch Number: GC061997BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	12
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	0.0080
Toluene	0.0050	0.017
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.072
Chromatogram Pattern:		
Weathered Gas		C8-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98
4-Bromofluorobenzene	60	140	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Gary Pestana

Client Project ID: 331-006.1A/3400 San Pablo Ave
Matrix: SOLID
Work Order #: 9706931 01-10
Reported: Jul 10, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC061997BTEXEXA	GC061997BTEXEXA	GC061997BTEXEXA	GC061997BTEXEXA	GC061997BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. PORTER	A. PORTER	A. PORTER	A. PORTER	A. PORTER
MS/MSD #:	970693102	970693102	970693102	970693102	970693102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/19/97	6/19/97	6/19/97	6/19/97	6/19/97
Analyzed Date:	6/19/97	6/19/97	6/19/97	6/19/97	6/19/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
Result:	0.20	0.21	0.23	0.71	1.5
MS % Recovery:	100	105	115	115	111
Dup. Result:	0.19	0.20	0.21	0.64	1.4
MSD % Recov.:	95	100	105	103	103
RPD:	5.1	4.9	9.1	10	6.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK061997	BLK061997	BLK061997	BLK061997	BLK061997
Prepared Date:	6/19/97	6/19/97	6/19/97	6/19/97	6/19/97
Analyzed Date:	6/19/97	6/19/97	6/19/97	6/19/97	6/19/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.19	0.21	0.22	0.68	1.4
LCS % Recov.:	95	105	110	113	117
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granlcher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Gary Pestana

Client Proj. ID: 331-006.1A/3400 San Pablo Ave
Lab Proj. ID: 9706931

Received: 06/17/97
Reported: 06/29/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): M Sakai
WORKORDER: 9706931
DATE OF LOG-IN: 6-18-97

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / ~~Absent~~ Intact / Broken*
2. Custody Seal #: Put in Remarks Section
3. Chain-of-Custody: ~~Present~~ / Absent*
4. Traffic Reports or Packing List: Present / ~~Absent~~
5. Airbill: Airbill / Sticker Present / ~~Absent~~
6. Airbill #: 7
7. Sample Tags: ~~Present~~ / Absent
   Sample Tags #s: ~~Listed~~ / Not Listed on Chain-of-Custody
8. Sample Condition: ~~Intact~~ / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? ~~Yes~~ / No*
10. Proper Preservatives used: ~~Yes~~ / No*
11. Date Rec. at Lab: 6-17-97
12. Time Rec. at Lab: 1139
13. Temp Rec. at Lab: 14°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A	D-1	CORE	S	6-13-97	
2	"	-2	"	"	"	
3	"	-3				
4	"	-4				
5	"	-5				
6	"	-6				
7	"	-7				
8	"	-8				
9	"	-9				
10	"	-10	"	"	"	

6-17-97 mac

*if Circled, contact Project Manager and attach record of resolution.

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 331006.1A

Facility No. 49 | Facility Address: 3400 SAN PABLO AVENUE | Billing Refence Number:

CLIENT engineer: | PACIFIC Point of Contact: GARY RESTANA | Sampler: DAVID NANSTAD | Laboratory Name: SEQUOIA

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc, C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dissvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	MTBE (8015/8020)			
D-1	1	RING	ICE	S	G	6/13/97		X							X			
D-2																		
D-3																		
D-4																		
D-5																		
D-6																		
D-7																		
D-8																		
D-9																		
D-10																		

Comments:

9706931

JN 17 11 39

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
David S. Nanstad	6/13/97	5:20pm	Krissy Flessas	6/17	8:12 AM
Krissy Flessas	6/17/97	1025		6/17	1025
	6/17/97	1139			
			Received by laboratory	6-17-97	1139

Mail original Analytical Report to:

Pacific Environmental Group
- 2025 Gateway Place #440, San Jose, CA 95110 [X]
- 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 [ ]
- 25725 Jeronimo Rd. #578C, Mission Viejo, CA 92622 [ ]
- 4020 148th Ave NE #B, Redmond, WA 98052 [ ]

Turnaround Time:

- Priority Rush (1 day) [ ]
- Rush (2 days) [ ]
- Expedited (5 days) [ ]
- Standard (10 days) [X]
- As Contracted [ ]

Equipment Decontamination Technique

1.0 Scope and Application

The following section describes field techniques that were performed by Pacific Environmental Group, Inc. PACIFIC personnel in the performance of the tasks involved with this project.

2.0 Equipment and Supplies

Quantity	Description
3	Wash tubs or buckets (5-gallon minimum capacity).
1 gallon	CitranoxÔ detergent.
As needed	Tap water.
As needed	Distilled water.
1 pair	Neoprene gloves.
3	Scrub brushes.

3.0 Procedures

3.1 Rinse each bucket (or wash tub) with tap water and then distilled water, prior to use.

3.2 Place one brush in each bucket and fill accordingly:

a) Bucket #1: Tap water/CitranoxÔ detergent (mix as specified by the manufacturer).
b) Bucket #2: Tap water.
c) Bucket #3: Distilled water.

3.3 Place the piece of equipment to be washed into bucket #1 and scrub with brush. Rinse the equipment with the contents (tap water and detergent) of bucket #1.

3.4 Remove the piece of equipment from bucket #1 and place in bucket #2 and scrub with brush. Rinse the equipment with the contents (tap water) of bucket #2.

3.5 Remove piece of equipment from bucket #2 and place in bucket #3 and scrub with the brush. Rinse the equipment with the contents (distilled water) of bucket #3.

3.6 Remove the piece of equipment from bucket #3 and place on clean or prepared surface to air dry.

3.7 Repeat Steps 3.3 through 3.6 for each piece of field equipment which requires decontamination.

Note: Periodically replace the contents of each bucket. The frequency at which the contents should be replaced is dependent on site-specific conditions.

Standard Operating Procedure

for

Soil Sampling Techniques

The following section describes field techniques that were performed by Pacific Environmental Group, Inc. PACIFIC personnel in the performance of the tasks involved with this project.

1.0 Locating Underground Utilities

Prior to the commencement of work on site, PACIFIC researched the location of all underground utilities with the assistance of Underground Service Alert (USA - Southern California toll free phone number 1-800-422-4133). USA contacted the owners of the various utilities in the vicinity of the site to have the utility owners mark the locations of their underground utilities. Prior to drilling, each boring was advanced manually using a hand auger and post-hole digger to a minimum depth of 5 feet to avoid contact with underground fuel distribution and/or vent lines and other unmarked utilities.

2.0 Soil Boring and Soil Sampling Protocol

Drilling and soil sampling was performed under the direction of a PACIFIC engineer or geologist. The soil borings were drilled using a truck-mounted drill rig equipped with hollow stem augers. Additional soil samples were collected from directly beneath unlined fuel dispensers.

All down-hole drilling equipment was steam-cleaned prior to use and between each boring to reduce the chances of cross contamination. The split-barrel sampler was washed in soap solution and double rinsed with tap and purified between each sampling event to reduce the potential for cross contamination between samples. Hand augers were washed in soap solution and double rinsed with tap and purified water between each sampling event to reduce the potential for cross contamination between samples during hand auger sampling. Dispenser samples were collected directly into pre-cleaned brass sample tubes.

Soil sampling was performed in accordance with American Society for Testing and Materials Method 1586-84. Using this procedure a California-type sampler is driven into the soil every 5 vertical feet by a 140-pound weight falling 30 inches. Three 6-inch brass liners were placed in the sampler for sample collection. The number of blow counts required to advance the sampler 18 inches was recorded at each sample interval onto soil boring logs. The lower-most intact soil sample was retained for chemical analysis. The ends of the brass sleeve were covered with Teflon™ sheets and plastic caps. Each sample was then labeled, identified on the chain of custody, and stored in a chilled cooler for

transport to the laboratory. Remaining soil in the sampler was used for later screening with a flame-ionization detector (FID). The soil was field screened by placing the soil in resealable plastic bags and allowed to reach ambient temperature. Headspace vapors in the bags were field screened with a calibrated FID. The highest observed stable reading was then recorded onto the boring log. Another portion of the soil sample was used for lithologic classification and description by the United Soil Classification System.

2.1 Soil Sample Analytical Selection Procedure

At a minimum, two soil samples from each soil boring were submitted to the laboratory for chemical analysis including the deepest soil sample per boring and the sample with the highest field screening result. Any additional soil samples analyzed were selected based on field observations and were analyzed at the discretion of the regional project manager.

2.2 Soil Sample Analyses

Select soil samples were analyzed by the following Environmental Protection Agency (EPA) test methods:

Sample Location	Analytical Parameters	EPA Method(s)
Near waste-oil, diesel, septic tanks, or clarifiers	Total recoverable petroleum hydrocarbons (TRPH)	418.1
	Volatile Organic Compounds	624/8240
	Title 22 Metals	6010/7196/ 7471
	Total Petroleum Hydrocarbons as diesel (TPHd)	Mod. 8015
	Benzene, toluene, ethylbenzene, xylenes (BTEX)	8020
All other soil samples	Total petroleum hydrocarbons as gasoline (TPHg)	Mod. 8015
	Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MtBE)	8020 and 8020A