



PACIFIC
ENVIRONMENTAL
GROUP, INC.

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11:38 am, Sep 15, 2010

Alameda County
Environmental Health

December 22, 1997

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

Subject: Baseline Subsurface Investigation Report
Thrifty Service Station No. 063
6125 Telegraph Road
Oakland, California
PACIFIC Project No. 331-008.1A

Dear Thrifty:

PACIFIC Environmental Group, Inc. (PACIFIC) was contracted by to conduct a baselining subsurface investigation at the subject site. The purpose of the investigation was to baseline environmentally related subsurface conditions at 6125 Telegraph Road, 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 9, 1997 PACIFIC visited the site to collect soil samples beneath each dispenser. No soil samples were collected since underdispenser containment was present. On June 11 and 12, 1997, PACIFIC conducted site investigation activities in the areas of the underground storage tanks and the dispenser islands, which included drilling nine 10-20 foot soil borings. See the attached figure for soil boring locations and drilling depths. All soil samples were submitted to Del Mar Analytical, a California Department of Health Services Certified Laboratory, located in Irvine, California. A total of 19 soil samples were relinquished to the laboratory. A total of 19 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. 063 is located in the City of Oakland at an elevation of approximately 145 feet above mean sea level. Local topography slopes to the southwest at approximately 0.025 foot per foot (USGS, 1959). The site is situated in the flatland region between the San Francisco Bay and the Oakland Hills. This flatland region is comprised of Quaternary 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 clay and silty sand from the ground surface to the total depth of the investigation. Groundwater was encountered at approximately 16 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.

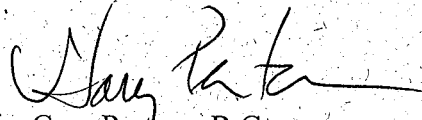
If you should have any questions, please call either of the undersigned at (626) 351-4814.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



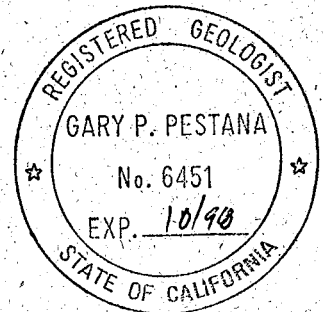
Chris Rohlfing
Sr. Staff Geologist



Gary 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

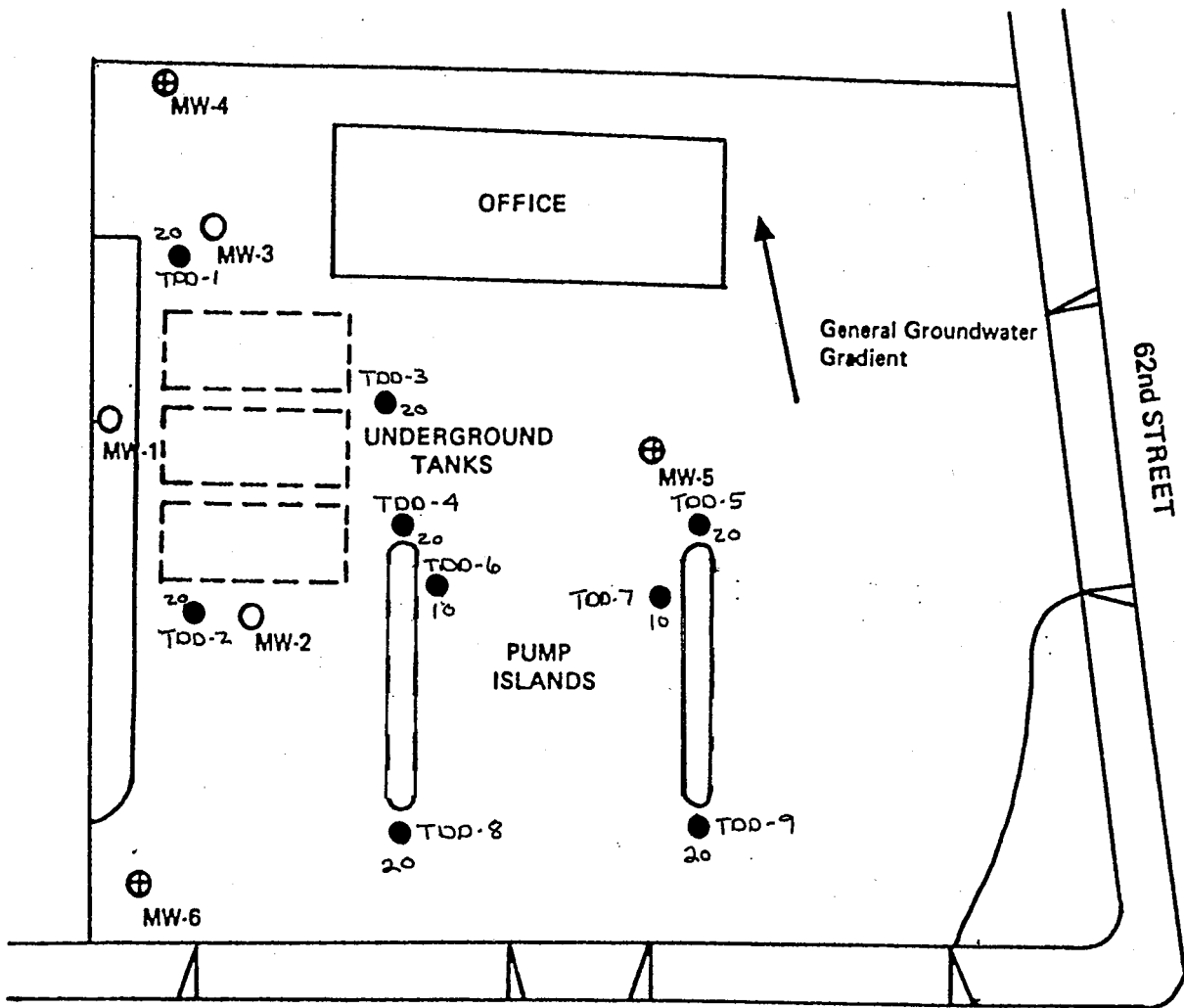


References

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

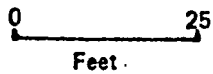
United States Geological Survey (USGS), 1969, Oakland West Quadrangle, 7.5 minute topographic, photorevised 1980.

9542/063



LEGEND

- MW-1 GT Monitoring Wells
- ⊕ MW-4 WCC Monitoring Wells



● 20 Boring and Depth

Thifty No. 063

625 Telegraph Road
Oakland, CA

PERSONNEL: TAJ/RLB

CLIENT: Pacific Environmental

JOB: 97-453-01

DATE: 6-9-97

LOCATION: 6125 Telegraph Ave / Oakland
Thrifty Gas

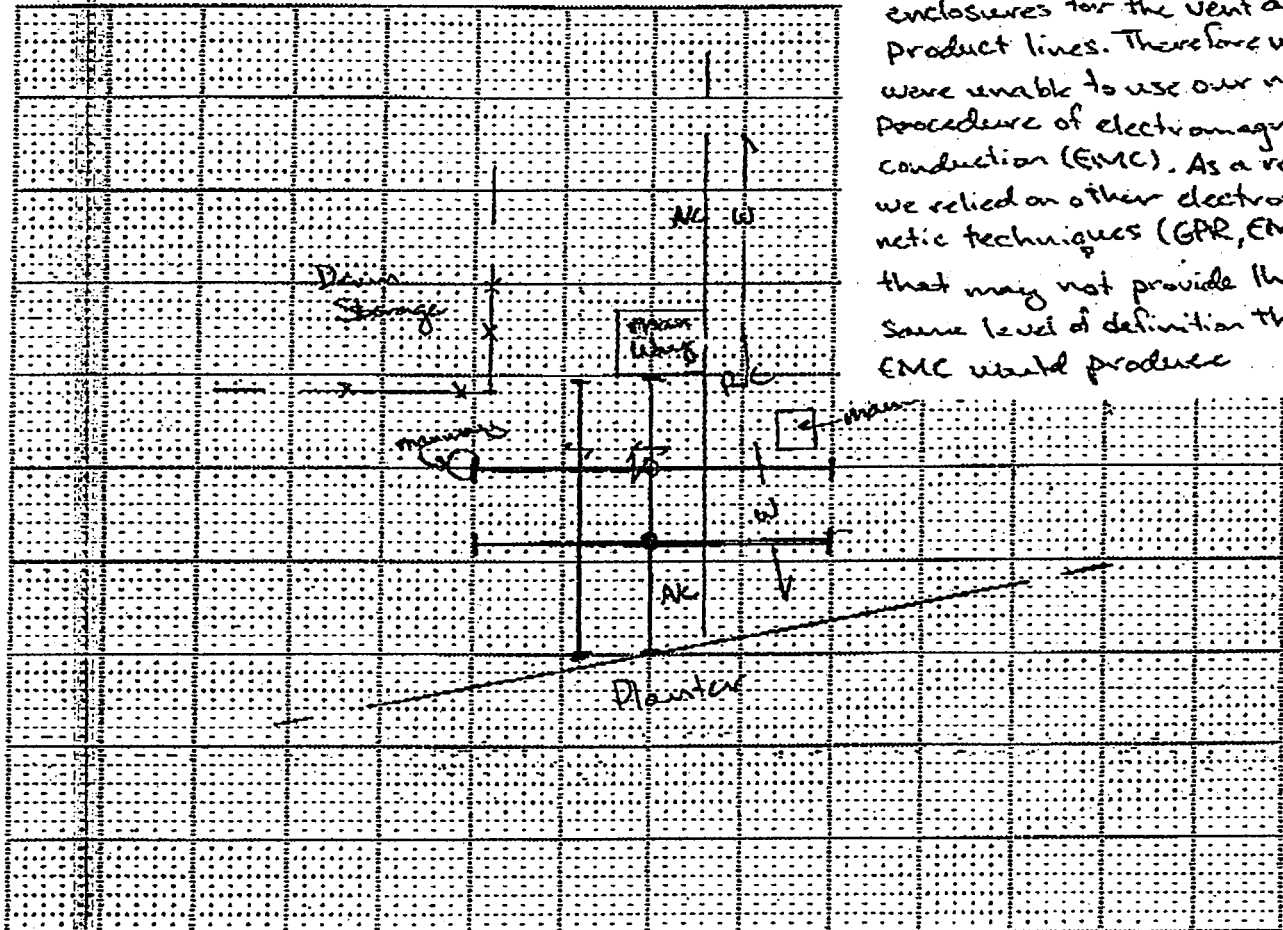
NORCAL

GEO PHYSICAL
CONSULTANTS
INC.



BORING: TDD1

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 Suppression)
- 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 ↑
 Did not detect Storm drain alignment
 Access to vent pipes was not provided

PERSONNEL: TAH/RLB

CLIENT: Pacific Environmental

JOB: 97-453.01

DATE: 6-9-97

LOCATION: 6125 Telegraph Ave / Oakland

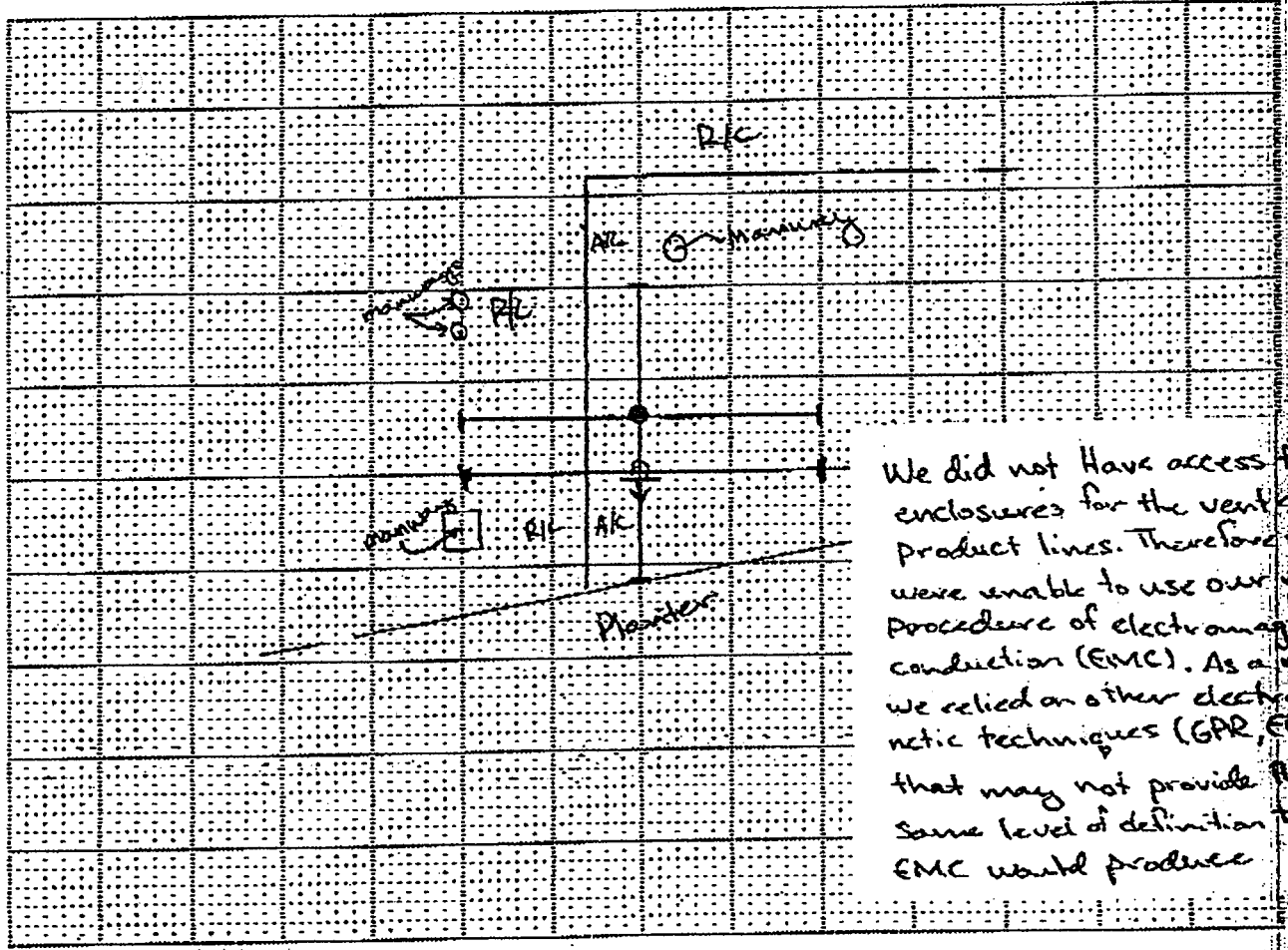
Thrifty Gas

NORCAL

GEOPHYSICAL CONSULTANTS INC.



BORING: TDD2



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 Suppression)
- 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 ↑
 → Disturbed Soils
 did not detect storm drain alignment
 Access to vent pipes was not provided

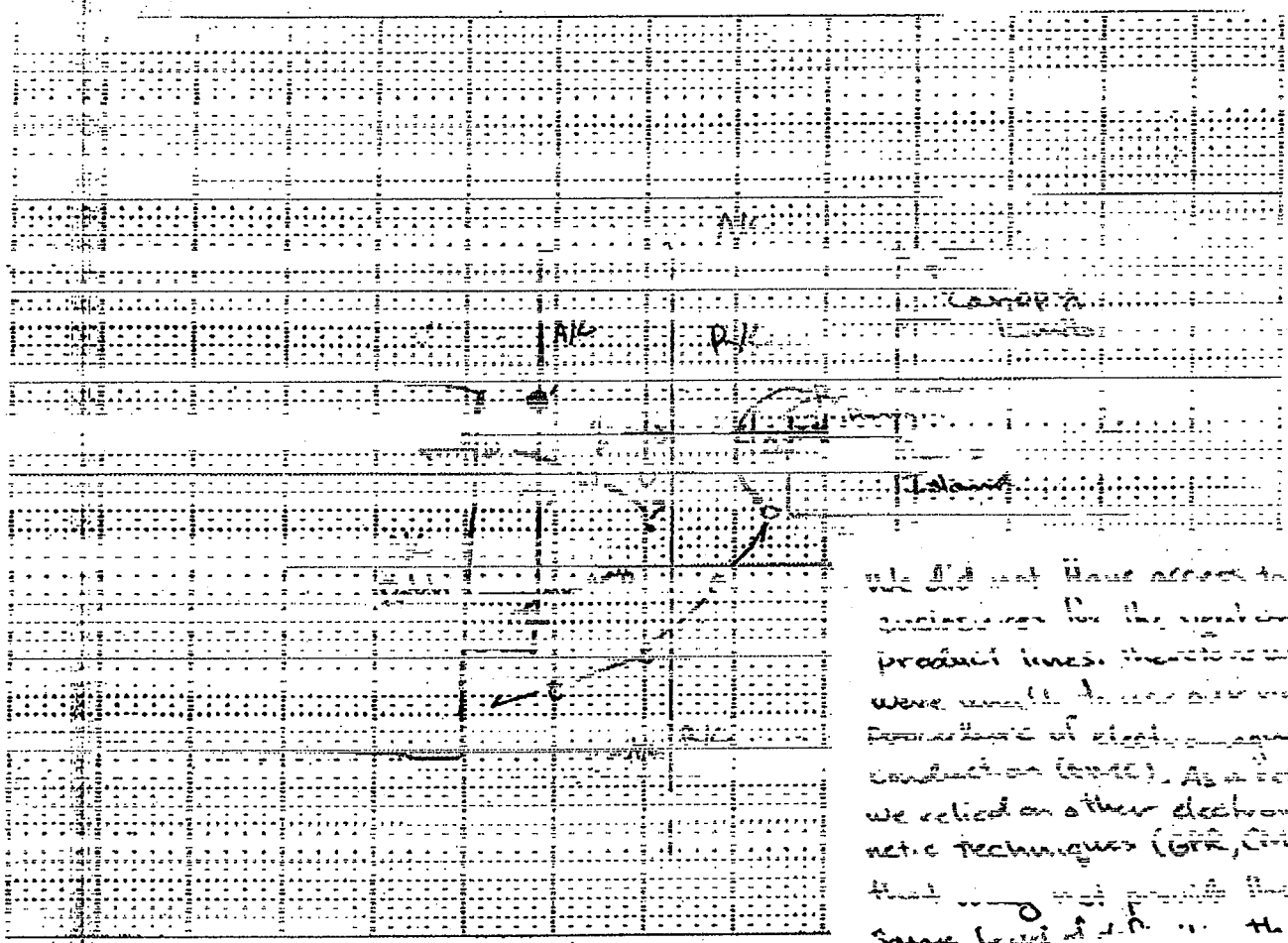
NORCAL

GEOPHYSICAL CONSULTANTS

NORCAL

LOCATION: 6125 ...

BORING: TDD5



We did not have access to the ...
 product lines. Therefore we
 were unable to use our normal
 procedure of electromagnetic
 induction (EMI). As a result,
 we relied on other geophysical
 techniques (GPR, etc.)
 that may not provide the
 same level of detail that
 EMI would produce

EXPLANATION

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

- T (Telephone Comm.)	- SS (Sanitary Sewer)
- E (Electric)	- SD (Storm Drain)
- W (Water)	- F (Fire Suppression)
- U (Undifferentiated Utility)	- C (Concrete)

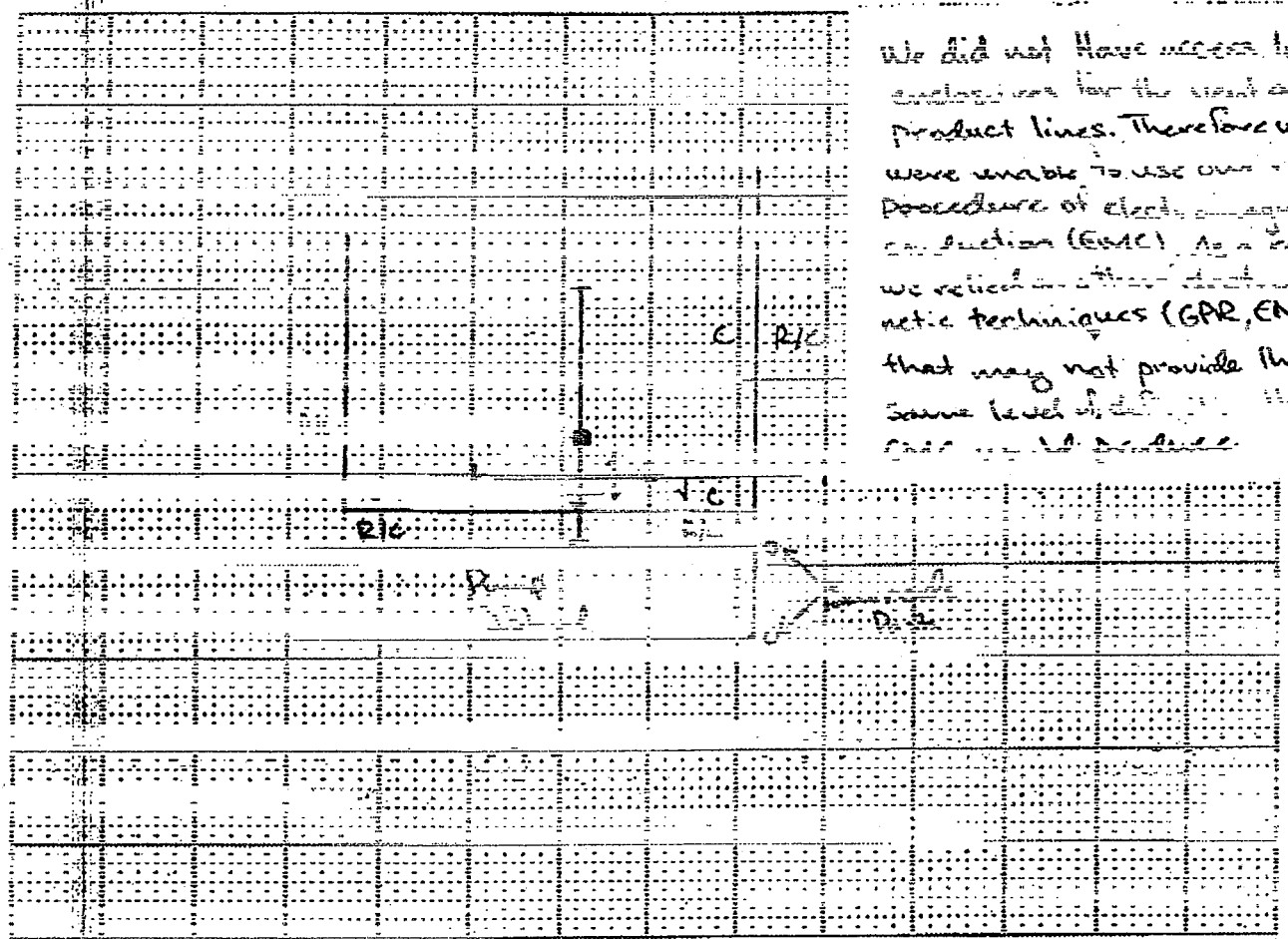
- RC (Reinforced Concrete)	- G (Gravel)
- AC (Asphalt)	- C (Concrete)

NOTES

Equipment	Procedure	Surface Conditions
<input checked="" type="checkbox"/> GPR (Radar)	<input checked="" type="checkbox"/> EMC (Conduction)	<input checked="" type="checkbox"/> Wet
<input checked="" type="checkbox"/> RE 400	<input checked="" type="checkbox"/> EMI (Induction)	<input checked="" type="checkbox"/> Dry
<input checked="" type="checkbox"/> M Scope	<input checked="" type="checkbox"/> Ambient	<input checked="" type="checkbox"/> other
<input type="checkbox"/> other	<input checked="" type="checkbox"/> GPR	

REMARKS

N
 ↑
 Disturbed Soils
 - Moved TDD5 ...
 to avoid GPR anomalies
 - Did not detect storm drain alignment
 - Access to vent pipes was not provided



We did not have access to the enclosure for the vent and product lines. Therefore we were unable to use our procedure of electrical induction (EMI). As a result we relied on other geophysical techniques (GPR, EMI) that may not provide the same level of detail.

Scale: 1" = 10'

EXPLANATION

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

Utilities

- T (Telephone, Comm.)
- NG (Natural Gas)
- CA (Cable)
- S (Steam)
- SS (Sanitary Sewer)
- SD (Storm Drain)
- W (Water)
- RC (Fire Suppression)
- UU (Undifferentiated Utility)

Surface

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

NOTES

Equipment:	Procedure:	Surface Conditions:
<input checked="" type="checkbox"/> GPR (Radar)	<input checked="" type="checkbox"/> EMC (Conduction)	<input checked="" type="checkbox"/> Wet
<input checked="" type="checkbox"/> RD 400	<input checked="" type="checkbox"/> EMI (Induction)	<input checked="" type="checkbox"/> Dry
<input checked="" type="checkbox"/> M Scope	<input checked="" type="checkbox"/> Ambient	<input checked="" type="checkbox"/> other
<input type="checkbox"/> other	<input checked="" type="checkbox"/> GPR	

REMARKS

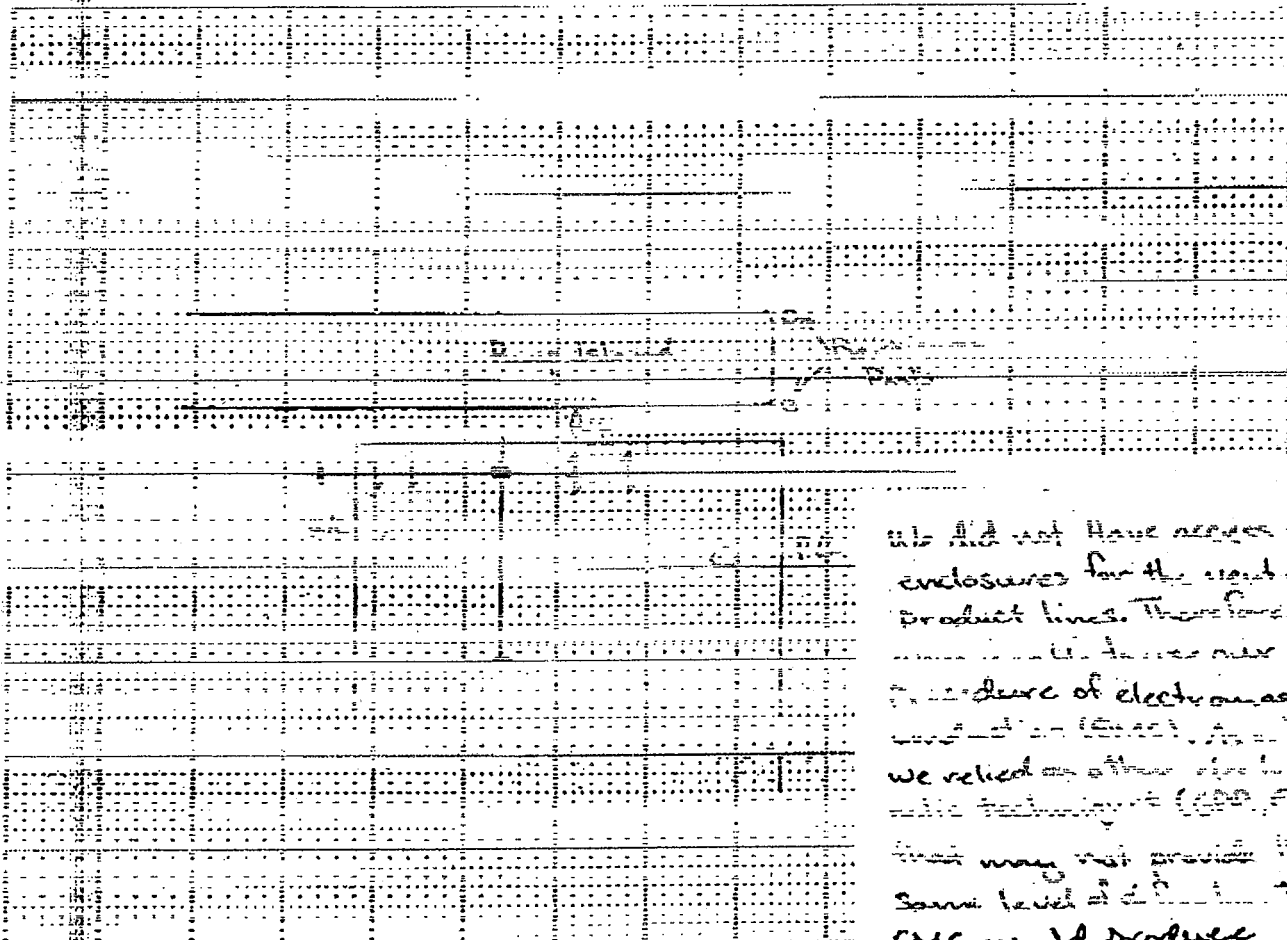
N
 ↑
 - TDD6 is located beneath canopy
 - Did not detect any utility alignment
 → disturbed soils
 - Access to vent pipes was not possible

CLIENT: Pacific Environmental

DATE: 6-9-97

Thrifty Gas

NORCAL



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)
 - SS (Sanitary Sewer)
 - SD (Storm Drain)
 - W (Water)
 - FS (Fire Suppression)
 - CW (Condensate Utility)
- Surface**
- RC (Reinforced Concrete)
 - AC (Asphalt)
 - C (Concrete)
 - Soil
 - Gravel
 - other

NOTES

- GPR (Radar)
- RD 400
- M Scope
- other
- EMC (Conductivity)
- EMI (Induction)
- Ambient
- GPR
- Dry
- other

REMARKS

- 1777 is located beneath canopy
- Access to vent pipes was not possible
- Did not follow storm drain alignment

PERSONNEL: TAH /RLB

JOB: 97-453.01

DATE: 6-9-97

CLIENT: Pacific Environmental

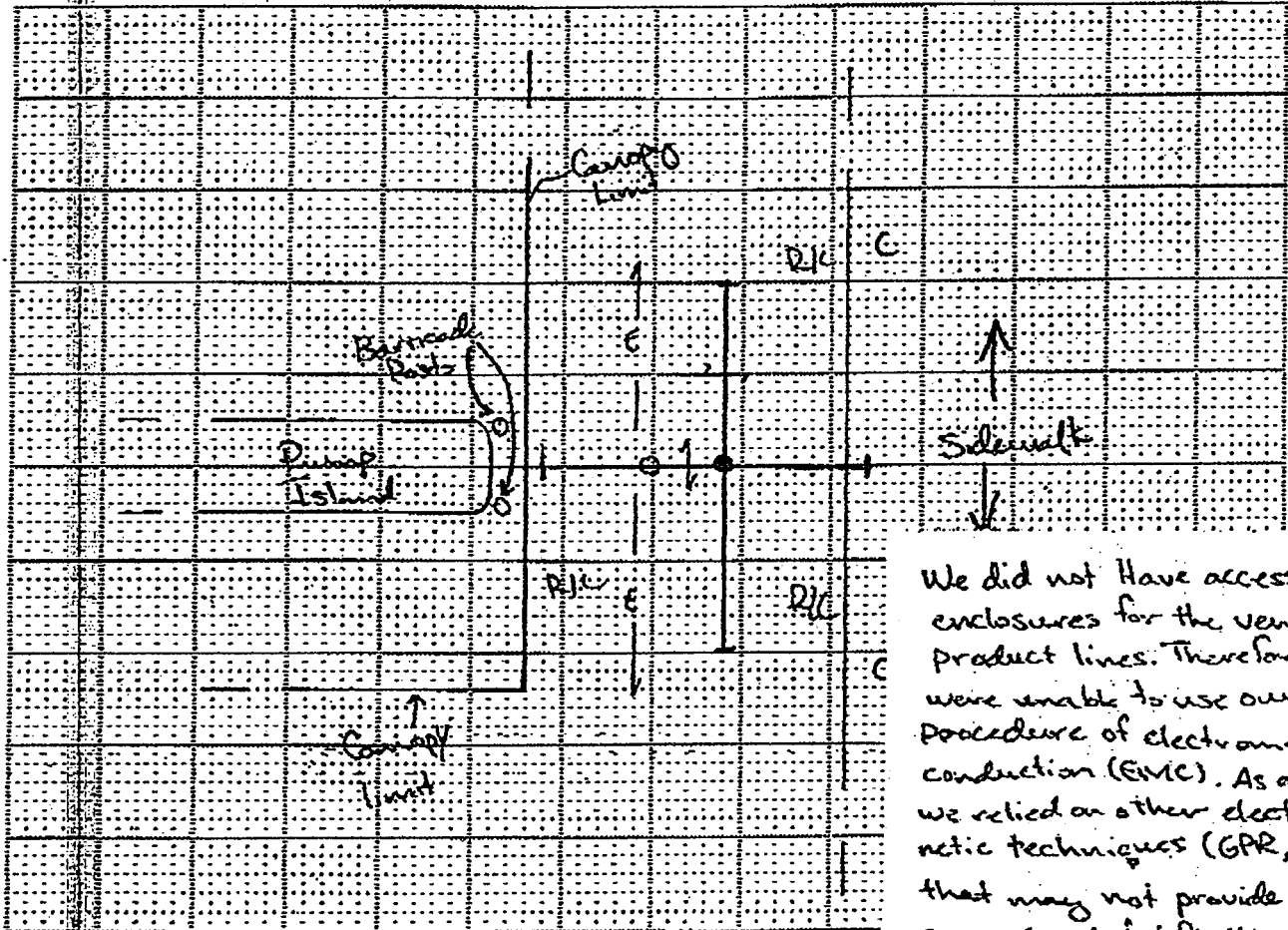
LOCATION: 6125 Telegraph AVE / Oakland

Thrifty Gas

BORING: TDD8

NORCAL

GEO PHYSICAL CONSULTANTS INC.



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 Suppression)
- 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 - Did not detect storm drain alignment
- R/C limits effectiveness of M-Scope
- Access to vent pipes was not provided

PERSONNEL: TAW/RLB

JOB: 97-453.01

DATE: 6-9-97

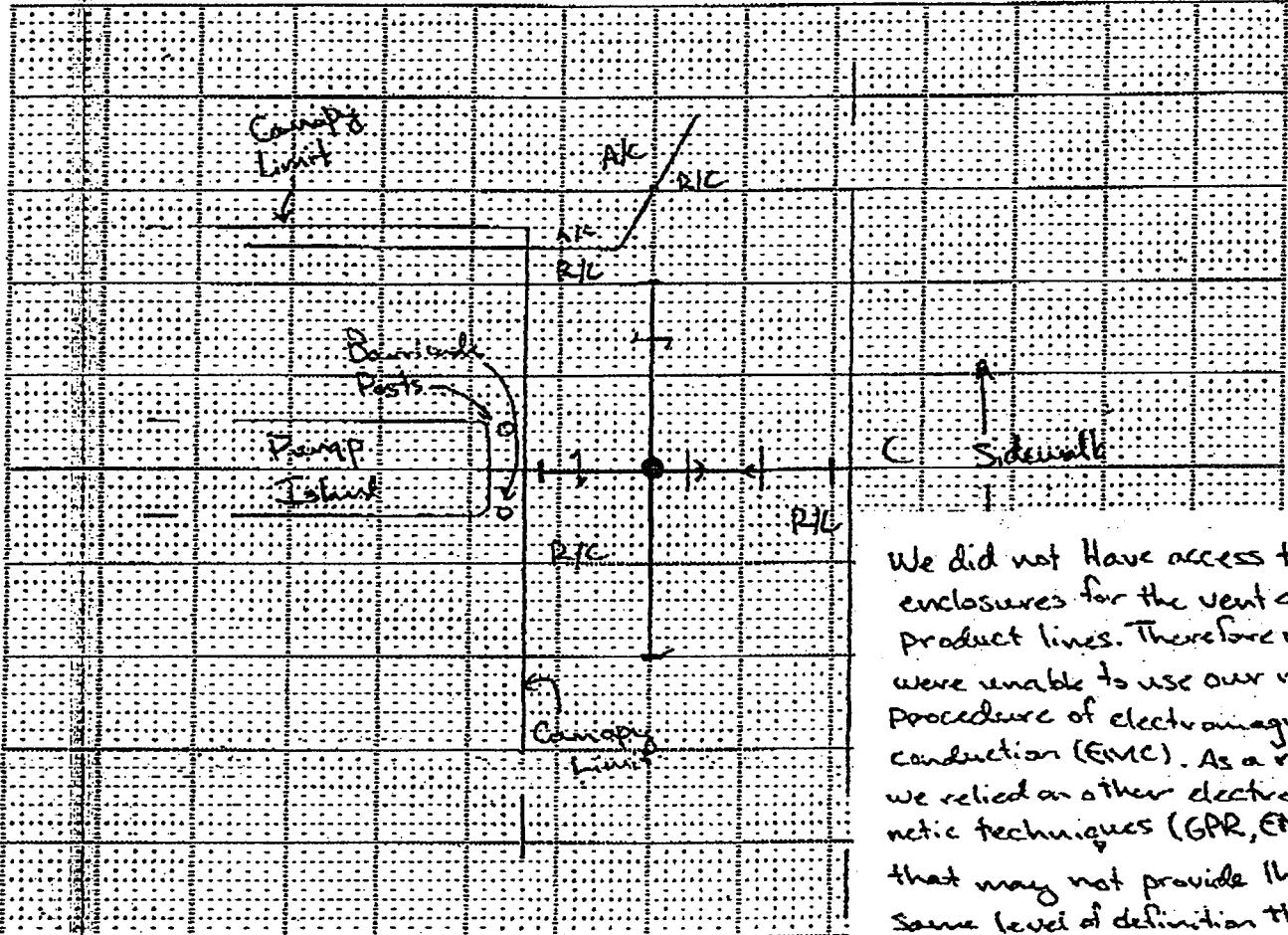
CLIENT: Pacific Environmental

LOCATION: 6125 Telegraph Ave/Oakland
Thrifty Gas

BORING: TDD9

NORCAL

GEO PHYSICAL
CONSULTANTS
INC.



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 Suppression)
- 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 ↑

Disturbed Soils

Did not detect storm drain alignment

R/C limits effectiveness of M-Scope

Access to vent pipes was not provided



TABLE 1
 ANALYTICAL SUMMARY - SOIL SAMPLES
 Thrifty 063
 6125 TELEGRAPH RD
 OAKLAND, CALIFORNIA

Sample I.D.		TPHg	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
Sampled		Concentration (mg/Kg)					
TDD1-15'	6/11/97	480	2.3	<0.75	7.0	42	1.7
TDD1-20'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD2-15'	6/11/97	37	0.19	0.13	0.61	1.9	<1.0
TDD2-20'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD3-15'	6/11/97	7.5	0.043	<0.015	0.044	<0.045	12
TDD3-20'	6/11/97	<1.0	0.11	<0.0050	0.0070	<0.015	3.2
TDD4-15'	6/11/97	36	0.41	<0.038	0.39	1.2	14
TDD4-20'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	1.4
TDD5-10'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD5-20'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD6-5'	6/11/97	550	2.5	5.5	9.7	50	6.0
TDD6-10'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD7-5'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	1.0
TDD7-10'	6/11/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD8-10'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD8-20'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD9-5'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD9-10'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0
TDD9-20'	6/12/97	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<1.0

Revised: 8/7/97

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
 Nancy Johnson
 Project Manager



The data contained on the certified reports are reviewed for accuracy and completeness and should take precedence over this summary table. This report shall not be reproduced, except in full, without written permission.

GF03585.PEG

PROJECT NO. 331-008.1A
 LOGGED BY: D.A.
 DRILLER: MDE
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
 DATE DRILLED: 6-11-97
 LOCATION: 6125 Telegraph Road
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20.5'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout				2				ASPHALT 3"; FILL MATERIAL 2'
	Dp	0	36	4			CL	SILTY CLAY: yellowish brown; no product odor.
				6			CL	GRAVELLY CLAY: olive brown; moderate plasticity; very stiff; no product odor.
				8			ML	CLAYEY SILT: dark greenish gray; moderate plasticity; very stiff; faint product odor.
	Mst	27	34	10			GC	CLAYEY GRAVEL: dark greenish gray; medium dense; faint product odor.
				12				
				14				
	Wt-Sat	1,271	39	16				@ 15': as above; moderate product odor.
				18				
	Sat	10	40	20			GP	SANDY GRAVEL: reddish brown; dense; no product odor.
				22				BOTTOM OF BORING AT 20.5'
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-2
PAGE 1 OF 1

PROJECT NO. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
LOCATION: 6125 Telegraph Road
HOLE DIAMETER: 8"
HOLE DEPTH: 20.5'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout	Dp	0	13	2			FL	ASPHALT 3" SAND - FILL MATERIAL: no product odor.
	Mst	101	24	10			SM	SILTY SAND: dark olive gray; medium dense; faint to moderate product odor.
	Wt	705	35	16			CL	GRAVELLY CLAY: dark greenish gray; moderate plasticity; moderate product odor.
	Sat	23	38	20			GP	SANDY GRAVEL: yellowish brown; dense; faint product odor.
					20.5			

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-3
PAGE 1 OF 1

PROJECT NO. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
LOCATION: 6125 Telegraph Road
HOLE DIAMETER: 8"
HOLE DEPTH: 20.5'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout				2			FL	ASPHALT 4"
				4				SAND - FILL MATERIAL: no product odor.
	Dp	0	4	6				@5': as above; no product odor.
				8				
	Mst	93	8	10				@10': as above; faint product odor.
				12				
				14				
	Wt-Sat	671	27	16			CL	SANDY CLAY: olive; moderate plasticity; very stiff; faint to moderate product odor.
				18				
	Sat	32	16	20			GP	SILTY GRAVEL: dark reddish brown; medium dense; no product odor.
				22				BOTTOM OF BORING AT 20.5'
				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. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
LOCATION: 6125 Telegraph Road
HOLE DIAMETER: 8"
HOLE DEPTH: 20.5'

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout		Dp	15	22	2			CL	ASPHALT SILTY CLAY: yellowish brown with greenish gray mottling; very stiff; faint product odor.
					4				
					6				
					8				
					10			CL	SANDY CLAY: olive brown; moderate plasticity; very stiff; moderate product odor.
					12				
					14			SC	CLAYEY SAND: olive; medium dense; moderate product odor.
					16				
					18				
					20			SM	SILTY SAND: strong brown; medium dense; no product odor.
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				
					40				
					42				
					44				

BOTTOM OF BORING AT 20.5'

PROJECT NO. 331-008.1A
 LOGGED BY: D.A.
 DRILLER: MDE
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
 DATE DRILLED: 6-11-97
 LOCATION: 6125 Telegraph Road
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout				2		Diagonal hatching	CL	ASPHALT 3" CLAY: black; moderate to high plasticity; no product odor.
		Mst	0	41		Diagonal hatching	CL	SILTY CLAY: pale brown with yellowish brown mottling; hard; no product odor.
				6		Diagonal hatching		
		Mst	8	36		Diagonal hatching	CL	GRAVELLY CLAY: light olive brown; very stiff; no to faint product odor.
				10		Diagonal hatching		
				12		Diagonal hatching		
				14		Diagonal hatching	GC	CLAYEY GRAVEL: light olive brown; low plasticity; very stiff; no product odor.
		Wt	0	34		Diagonal hatching		
				16		Diagonal hatching		
				18		Diagonal hatching		
			31		Diagonal hatching	CL	SILTY CLAY: pale olive; hard; no product odor.	
				20				BOTTOM OF BORING AT 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. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
LOCATION: 6125 Telegraph Road
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	Dp	721		2			CL	CONCRETE 5" CLAY: black; high plasticity; moderate product odor.
				4			CL	GRAVELLY CLAY: light yellowish brown with gray staining; low to moderate plasticity; moderate product odor.
				8			CL	SILTY CLAY: dark olive with gray mottling; moderate plasticity; no product odor.
	Mst	0		10				
				12				
				14				
				16				
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				
								BOTTOM OF BORING AT 10'



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. TDD-7
PAGE 1 OF 1











PROJECT NO. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
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	27		2			CL	CONCRETE 5"; FILL MATERIAL 1' CLAY: black; high plasticity; faint product odor.
	Mst	0		4			CL	SILTY CLAY: light olive brown with gray staining along rootholes; no product odor.
	Mst	0		6				@10': as above; no product odor.
				8				
				10				BOTTOM OF BORING AT 10'
				12				
				14				
				16				
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

PROJECT NO. 331-008.1A
LOGGED BY: D.A.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
DATE DRILLED: 6-11-97
LOCATION: 6125 Telegraph Road
HOLE DIAMETER: 8"
HOLE DEPTH: 20'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout				2			CL	CONCRETE 4"; FILL MATERIAL 8" CLAY: black; high plasticity; no product odor.
	Mst	0	24	4			CL	SILTY CLAY: dark yellowish brown with gray mottling; no product odor.
				6				
				8				
	Mst	32	29	10			CL	GRAVELLY CLAY: olive; very stiff; faint product odor.
				12				
				14				
	Wt	0	41	16				@15': as above; medium dense; no product odor.
				18				
	Mst	0	30	20			CL	SILTY CLAY WITH GRAVEL: pale olive with strong brown mottling; low plasticity; very stiff; no product odor.
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 20'

PROJECT NO. 331-008.1A
 LOGGED BY: D.A.
 DRILLER: MDE
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD

CLIENT: Thrifty Station No. 063
 DATE DRILLED: 6-12-97
 LOCATION: 6125 Telegraph Road
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20.5'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
Backfilled With Grout	Mst	132	24	2			CL	CONCRETE 5"	
				4			CL	CLAY: black; moderate to high plasticity; faint product odor.	
	Mst	237	32	6					
				8			GC	SILTY CLAY: olive gray with light bluish gray staining; very stiff; faint to moderate product odor.	
	Wt	0	35	10				GC	CLAYEY GRAVEL: dark olive gray; medium dense; moderate product odor.
				12					
	Sat	0	22	14				SC	CLAYEY SAND: yellowish brown; medium dense; no product odor.
				16					
				18				GP	SANDY GRAVEL: strong brown; medium dense; no product odor.
				20				CL	SILTY CLAY: pale olive; very stiff; no product odor.
			22						
			24						
			26						
			28						
			30						
			32						
			34						
			36						
			38						
			40						
			42						
			44						
								BOTTOM OF BORING AT 20.5'	

Pacific Environmental Group 650 Sierra Madre Villa, Ste. 204 Pasadena, CA 91107 Attention: Gary Pestana	Client Project ID: Thrifty Work Auth. #9542-97-01 063, Oakland Analysis Method: EPA 5030/CA DHS Mod. 8015/8020 First Sample #: GF03585	Sampled: Jun 11, 1997 Received: Jun 19, 1997 Extracted: Jun 24, 1997 Analyzed: Jun 24, 1997 Reported: Jun 30, 1997
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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)
GF03585	TDD6-5'	550	2.5	5.5	9.7	50

Reporting Limit:	60	0.30	0.30	0.30	0.90
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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 for this analysis was not available. Reporting limits for this sample have been raised by a factor of 60.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
 Nancy Johnson
 Project Manager



Pacific Environmental Group 650 Sierra Madre Villa, Ste. 204 Pasadena, CA 91107 Attention: Gary Pestana	Client Project ID: Thrifty Work Auth. #9542-97-01 063, Oakland Analysis Method: EPA 5030/CA DHS Mod. 8015/8020 First Sample #: GF03586	Sampled: Jun 11, 1997 Received: Jun 19, 1997 Extracted: Jun 24, 1997 Analyzed: Jun 24, 1997 Reported: Jun 30, 1997
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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)
GF03586	TDD6-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03587	TDD7-5'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03588	TDD7-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03595	TDD1-20'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03596	TDD2-15'	37	0.19	0.13	0.61	1.9
GF03597	TDD2-20'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03599	TDD3-20'	N.D.	0.11	N.D.	0.0070	N.D.
GF03601	TDD4-20'	N.D.	N.D.	N.D.	N.D.	N.D.

Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
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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
 Nancy Johnson
 Project Manager



Pacific Environmental Group 650 Sierra Madre Villa, Ste. 204 Pasadena, CA 91107 Attention: Gary Pestana	Client Project ID: Thrifty Work Auth. #9542-97-01 063, Oakland Analysis Method: EPA 5030/CA DHS Mod. 8015/8020 First Sample #: GF03594	Sampled: Jun 11, 1997 Received: Jun 19, 1997 Extracted: Jun 24, 1997 Analyzed: Jun 24, 1997 Reported: Jun 30, 1997
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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)
GF03594	TDD1-15'	480	2.3	N.D.	7.0	42

Reporting Limit:	150	0.75	0.75	0.75	2.3
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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 distinction.
 Reporting limits for this sample have been raised by a factor of 150.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
 Nancy Johnson
 Project Manager





Del Mar Analytical

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 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

Pacific Environmental Group	Client Project ID: Thrifty Work Auth. #9542-97-01	Sampled: Jun 11, 1997
650 Sierra Madre Villa, Ste. 204	063, Oakland	Received: Jun 19, 1997
Pasadena, CA 91107	Analysis Method: EPA 5030/CA DHS Mod. 8015/8020	Extracted: Jun 25, 1997
Attention: Gary Pestana	First Sample #: GF03598	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)
GF03598	TDD3-15'	7.5	0.043	N.D.	0.044	N.D.

Reporting Limit:	3.0	0.015	0.015	0.015	0.045
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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)

Nancy Johnson
 Nancy Johnson
 Project Manager



Pacific Environmental Group 650 Sierra Madre Villa, Ste. 204 Pasadena, CA 91107 Attention: Gary Pestana	Client Project ID: Thrifty Work Auth. #9542-97-01 063, Oakland Analysis Method: EPA 5030/CA DHS Mod. 8015/8020 First Sample #: GF03600	Sampled: Jun 11, 1997 Received: Jun 19, 1997 Extracted: Jun 25, 1997 Analyzed: Jun 25, 1997 Reported: Jun 30, 1997
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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)
GF03600	TDD4-15'	36	0.41	N.D.	0.39	1.2

Reporting Limit:	7.5	0.038	0.038	0.038	0.11
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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 7.5.

DEL MAR ANALYTICAL (ELAP #1197)

Nancy Johnson
 Nancy Johnson
 Project Manager





Del Mar Analytical

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 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
 2465 W. 12th St., Suite I, 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. #9542-97-01
 063, Oakland
 Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
 First Sample #: GF03589

Sampled: Jun 12, 1997
 Received: Jun 19, 1997
 Extracted: Jun 25-27, 1997
 Analyzed: Jun 25-27, 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)
GF03589	TDD8-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03590	TDD8-20'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03591	TDD9-5'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03592	TDD9-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03593	TDD9-20'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03602	TDD5-10'	N.D.	N.D.	N.D.	N.D.	N.D.
GF03603	TDD5-20'	N.D.	N.D.	N.D.	N.D.	N.D.

Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
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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
 Nancy Johnson
 Project Manager



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

Client Project ID: Thrifty Work Auth. #9542-97-01
 063, Oakland
 Analysis Method: EPA 5030/8020
 First Sample #: GF03585

Sampled: Jun 11, 1997
 Received: Jun 19, 1997
 Extracted: Jun 24-25, 1997
 Analyzed: Jun 24-25, 1997
 Reported: Jun 30, 1997

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Soil	Sample Result mg/Kg (ppm)
GF03585	TDD6-5'	6.0
GF03586	TDD6-10'	N.D.
GF03587	TDD7-5'	1.0
GF03588	TDD7-10'	N.D.
GF03594	TDD1-15'	1.7
GF03595	TDD1-20'	N.D.
GF03596	TDD2-15'	N.D.
GF03597	TDD2-20'	N.D.
GF03598	TDD3-15'	12
GF03599	TDD3-20'	3.2

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
 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

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

Client Project ID: Thrifty Work Auth. #9542-97-01
 063, Oakland
 Analysis Method: EPA 5030/8020
 First Sample #: GF03600

Sampled: Jun 11, 1997
 Received: Jun 19, 1997
 Extracted: Jun 24-25, 1997
 Analyzed: Jun 24-25, 1997
 Reported: Jun 30, 1997

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Soil	Sample Result mg/Kg (ppm)
GF03600	TDD4-15'	14
GF03601	TDD4-20'	1.4

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
 Nancy Johnson
 Project Manager



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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. #9542-97-01
 063, Oakland
 Analysis Method: EPA 5030/8020
 First Sample #: GF03589

Sampled: Jun 12, 1997
 Received: Jun 19, 1997
 Extracted: Jun 25-27, 197
 Analyzed: Jun 25-27, 197
 Reported: Jun 30, 1997

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Soil	Sample Result mg/Kg (ppm)
GF03589	TDD8-10'	N.D.
GF03590	TDD8-20'	N.D.
GF03591	TDD9-5'	N.D.
GF03592	TDD9-10'	N.D.
GF03593	TDD9-20'	N.D.
GF03602	TDD5-10'	N.D.
GF03603	TDD5-20'	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
 Nancy Johnson
 Project Manager



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

Method Blank

Extracted: Jun 24-27, 1997
 Analyzed: Jun 24-27, 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
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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
 Nancy Johnson
 Project Manager




Pacific Environmental Group
650 Sierra Madre Villa, Ste. 204
Pasadena, CA 91107
Attention: Gary Pestana**Method Blank**Extracted: Jun 24-27, 1997
Analyzed: Jun 24-27, 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

MS/MSD DATA REPORT

EPA Method 8015/8020

Matrix: Soil

Date: 06/24/97
 Sample #: GF03599
 Batch #: GF24191S

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppm	ppm	ppm	ppm	%	%	%	%	RPD	Mean PR
TPH	0.37	1.1	1.2	1.2	79	75	4.0	77 *	≤30	80 - 122
Benzene	0.11	0.10	0.22	0.19	103	76	14	* 90	≤10	85 - 116
Toluene	0.00065	0.10	0.086	0.089	86	88	2.9	87	≤10	84 - 115
Ethylbenzene	0.0070	0.10	0.091	0.095	85	88	3.5	86	≤10	85 - 116
Xylenes	0.0090	0.30	0.26	0.28	85	89	4.6	87	≤12	85 - 116

* Refer to LCS for batch validation.

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; $((MS-R1)/SP) \times 100$
- PR2..... Percent Recovery of MSD; $((MSD-R1)/SP) \times 100$
- RPD..... Relative Percent Difference; $((MS-MSD)/(MS+MSD)/2) \times 100$
- Mean PR..... Mean Percent Recovery
- Acceptance Limits..... Determined by in-house Control Charts



LCS DATA REPORT

EPA Method 8015/8020

Matrix: Soil

Date: 06/24/97

Sample #: BLANK

Batch #: GF24191S

<u>Analyte</u>	<u>Spike Conc.</u>	<u>Result</u>	<u>% Recovery</u>	<u>ACP</u>
TPH	1.1	1.1	97	85 - 115 %
Benzene	0.10	0.10	100	85 - 115 %
Toluene	0.10	0.099	99	85 - 115 %
Ethylbenzene	0.10	0.10	101	85 - 115 %
Xylenes	0.30	0.31	102	85 - 115 %

Definition of Terms

- LCS Laboratory Control Sample
- Spike Conc Result of Sample Analysis
- Result Result of Laboratory Control Sample Analysis
- %Recovery Percent Recovery of LCS; ((Result - Spike Conc.) / Spike Conc.) X 100
- ACP Acceptance Limits for Percent Recovery
- TPH Total Petroleum Hydrocarbons



THRIFTY Oil Company 10,000 Lakeside 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. 331-008.1A

Facility No. Thrifty Stn # 63

Facility Address: 6125 Telegraph Road, Oakland

Billing Reference Number:

CLIENT engineer:

PACIFIC Point of Contact: Mary P'Estane Sampler: Doug Andrews

Laboratory Name: Del Mar Analytical

Comments:

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	W=water S=soll. A=air	G=grab D=disc. C=comp.	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)
TDD1-15'	1	2" x 6" Glass	NP	S	D	6-11-97				X						
TDD1-20'																
TDD2-15'																
TDD2-20'																
TDD3-15'																
TDD3-20'																
TDD4-15'																
TDD4-20'																
TDD5-10'						6-12-97										
TDD5-20'																

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by:
Doug Andrews
Krisna Hesoras
Mona Rimmis

Date Time
6-18-97 10:00am
6/18/97 16:20
6-19-97 12:50

Received by
Krisna Hesoras
Mona Rimmis Fed Ex
Received by laboratory

Date Time
6/18/97 11:00
6-19-97 11:30
6/19/97 12:50

2025 Gateway Place #440
San Jose, CA 95110
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

Priority Rush (1 day)
Rush (2 days)
Expedited (5 days)
Standard (10 days)
As Contracted

IN OCT/ON 108

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. 331-008-1A

Facility No. Thrifty Stn #63

Facility Address: 6125 Telegraph Rd, Oakland

Billing Reference Number:

CLIENT engineer:

PACIFIC Point of Contact: *Elmy Restona*

Sampler: *Doug Andrews*

Laboratory Name: *Del Mar Analytical*

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
<i>TDD6-5'</i>	<i>1</i>	<i>2" x 6" BASS</i>	<i>NP</i>	<i>S</i>	<i>D</i>	<i>6-11-97</i>		<i>X</i>							
<i>TDD6-10'</i>															
<i>TDD7-5'</i>															
<i>TDD8-10'</i>															
<i>TDD8-10'</i>						<i>6-12-97</i>									
<i>TDD8-20'</i>															
<i>TDD9-5'</i>															
<i>TDD9-10'</i>															
<i>TDD9-20'</i>															

Condition of Sample:				Temperature Received:				Mail original Analytical Report to: Pacific Environmental Group				Turnaround Time:									
Relinquished by: <i>Doug Andrews</i>				Date: <i>6-18-97</i>		Time: <i>10:00am</i>		Received by: <i>Kressy Fleasow</i>				Date: <i>6/18/97</i>		Time: <i>1600</i>		2025 Gateway Place #440 <input checked="" type="checkbox"/>		San Jose, CA 95110		Priority Rush (1 day) <input type="checkbox"/>	
Relinquished by: <i>Kressy Fleasow</i>				Date: <i>6/18/97</i>		Time: <i>16:20</i>		Received by: <i>Marcia Remms</i>				Date: <i>6-19-97</i>		Time: <i>11:30</i>		620 Contra Costa Blvd. #209 <input type="checkbox"/>		Pleasant Hill, CA 94523		Rush (2 days) <input type="checkbox"/>	
Relinquished by: <i>Marcia Remms</i>				Date: <i>6-18-97</i>		Time: <i>12:50</i>		Received by: <i>[Signature]</i>				Date: <i>6/19/97</i>		Time: <i>12:30</i>		25725 Jeronimo Rd. #576C <input type="checkbox"/>		Mission Viejo, CA 92622		Expedited (5 days) <input type="checkbox"/>	
Relinquished by:				Date:		Time:		Received by laboratory:				Date:		Time:		4020 148th Ave NE #B <input type="checkbox"/>		Redmond, WA 98052		Standard (10 days) <input checked="" type="checkbox"/>	
																				As Contracted <input type="checkbox"/>	

INTRACT/OALCE

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

<u>Quantity</u>	<u>Description</u>
3	Wash tubs or buckets (5-gallon minimum capacity).
1 gallon	Citranox [®] 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/Citranox[®] 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.

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.

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:

<u>Sample Location</u> <u>Method(s)</u>	<u>Analytical Parameters</u>	<u>EPA</u>
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