UNDERGROUND STORAGE TANK REMOVAL REPORT

THRIFTY OIL COMPANY SERVICE STATION NO. 49
3400 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NO. 331-006.1B

Prepared for:

Ms. Kateri Luka
ARCO Products Company
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La Palma, California 90623

Prepared by:

Pacific Environmental Group, Inc.
650 Sierra Madre Villa, Suite 204
Pasadena, California 91107

August 24, 1998

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3400 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NO. 331-006.1B

1.0 INTRODUCTION

Pacific Environmental Group, Inc. (PEG) was contracted by ARCO Products Company (ARCO) to perform soil sampling during underground storage tank (UST) removal activities at Thrifty Oil Company (Thrifty) Service Station No. 49, located at 3400 San Pablo Avenue, Oakland, California (the Site). The purpose of the soil sampling was to fulfill local agency requirements and to provide additional information to baseline environmental related subsurface conditions from operations at Thrifty Service Station No. 49. The services provided by PEG included the following:

- Collecting soil samples following removal of USTs, product piping, and dispensers as directed by the Oakland Fire Department.

2.0 SOIL INFORMATION

This section summarizes the pertinent information concerning the Site location, Site geology, and hydrology, and the removed and installed USTs.

Site Location:	Southeast corner of San Pablo Avenue and 34th Street in the City of Oakland, California.
Site Geology:	Soil types encountered during the tank removal and previous site investigation activities consisted predominantly of gravelly clay and silt from the ground surface to the total depth of the investigations, approximately 17 feet below ground surface (bgs).

Local Hydrology:	Groundwater was encountered to a depth of approximately 7 feet bgs.
Removed USTs and Associated Piping:	On March 23, 1998, four gasoline USTs and their associated piping were removed from the Site. The USTs were 10,000-gallon and 8,000-gallon capacity and were constructed of single-walled steel. The associated piping was comprised of both single-walled steel and single-walled fiberglass.
Installed USTs:	On March 27, 1998, two 20,000-gallon double-walled USTs were installed at the Site. One of the USTs is partitioned (two 10,000-gallon subtanks) to accommodate two different grades of fuel.

3.0 EXCAVATED SOIL

Excavation activities were performed by the K. E. Curtis Construction Company (KEC), of Newbury Park, California. The excavated soil was segregated based on volatile organic compound (VOC)) concentrations measured using a flame-ionization detector (FID). All excavated soil was segregated and stockpiled according to the following criteria: soil which did not emit measured VOC concentrations greater than 50 ppmv, soil which emitted VOC concentrations measured between 50 and 100 ppmv, and soil which emitted VOC concentrations measured greater than 1,000 ppmv. To characterize the stockpiled soil, samples were collected from each stockpile and submitted to a laboratory for chemical analysis.

This section summarizes the pertinent information concerning the excavated soil, waste characterization, and final disposition of the excavated soil. For the purposes of this report, soil will be labeled "clean" and "impacted" based on results of chemical analysis. Stockpiles for which analytical results of soil samples are reported as not detectable are considered "clean" and stockpiles for which results of soil samples are reported to have detectable concentrations are considered "impacted".

Approximate Volume of "Clean" Stockpiled Soil:	0 cubic yards
Number of "Clean" Stockpile Samples:	0
"Clean" Stockpile Sample Names:	Not Applicable

Final Disposition of "Clean" Soil:	Not Applicable
Total Volume of Stockpiled "Impacted" Soil:	1,093 tons
Number of "Impacted" Stockpile Samples:	25
"Impacted" Stockpile Sample Names:	SS-1 through SS-25 (Table 1 and Appendix A)
Final Dispositions of "Impacted Soil:	TPS Technologies, Adalento, California (nonhazardous waste data forms included in Appendix C).
Number of "Impacted" Groundwater Samples:	2
"Impacted" Groundwater Sample Names:	T-W and T-B-W (Table 2 and Appendix B)

4.0 TANK REMOVAL

KEC was contracted by ARCO to obtain all necessary tank removal permits; make all required preliminary notifications; and clean, remove, transport, and dispose of the removed USTs. This section summarizes the pertinent information concerning the UST removal activities.

Lead Agency:	Oakland City Fire Department
Agency Contact Name:	Inspector Phillip Basada
Agency Phone Number:	(510) 238-3856
UST Cleaning Contractor:	Adams Services, Anaheim, California
Final Disposition of Rinseate:	DeMenno/Kerdoon, 2000 North Alameda Street, Compton, California 90222 (Uniform Hazardous Waste Manifest included as Appendix D)

Final Disposition of USTs:	Adams Steel, 3200 East Frontiera Road, Anaheim, California 92806 (Tank Destruction Certificate included as Appendix E)

5.0 SOIL SAMPLING

PEG collected soil samples under the direction of Inspector Basada of the Oakland City Fire Department. The field activities were conducted in accordance with the procedures for soil sampling located in Appendix G. Soil sample locations are indicated on Figure 1. Soil sample collection dates are indicated on the chain of custody documentation included in Appendix B. This section summarizes the results of the soil sampling activities.

Lead Agency:	Oakland City Fire Department
Agency Contact Name:	Inspector Phillip Basada
Agency Phone Number:	(510) 238-3856
Number of Tank Bottom Samples:	4
Tank Bottom Sample Names:	T-1 through T-4
Number of Piping Samples:	5
Piping Sample Names:	P-1 through P-5
Number of Dispenser Samples:	0
Dispenser Sample Names:	Not Applicable

6.0 ANALYTICAL RESULTS

All soil samples were relinquished to Sequoia Analytical of Walnut Creek, California (SA). SA is an ARCO-contracted and California Department of Health Services certified laboratory. PEG and SA adhered to strict chain of custody procedures from sample collection to sample analysis. All soil and groundwater samples were analyzed for some

of the following analytes and in accordance with the appropriate United States Environmental Protection Agency (EPA) method.

- Total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 8015 Modified
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
- Methyl tert-butyl ether (MtBE) by EPA Method 8020 Modified
- Total lead by EPA Method 6010A

Soil sample analytical results are summarized in Table 1 and soil sample locations are indicated on Figure 1. Copies of soil sample chain of custody documentation and laboratory analytical reports are included as Appendix A. Groundwater sample analytical results are summarized in Table 2. Copies of groundwater sample chain of custody documentation and laboratory analytical reports are included as Appendix B.

7.0 DISCUSSION OF RESULTS

Based on analytical results (Table 1), the following areas as defined by the indicated soil samples appear to be impacted by petroleum hydrocarbons. The impacted soil and other subsurface conditions are the result of operations at Thrifty Service Station No. 49.

- Former UST basin (T-1 through T-4)
- Product Piping Trenches (P-1 through P-5)

8.0 REMARKS/SIGNATURES

The procedures and protocol used for this work are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this location. Other than this, no warranty is implied or intended.

PACIFIC ENVIRONMENTAL GROUP, INC.

Chris Rohlfing
Senior Staff Geologist

Date 8/24/98

Gary Pestana, R.G.
Project Manager

Date 8/24/98

cc: Kateri Luka

REGISTERED GEOLOGIST
GARY P. PESTANA
No. 6451
EXP. 10/98
STATE OF CALIFORNIA

9.0 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.

TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK BASIN, PRODUCT PIPING, DISPENSERS,
AND ASSOCIATED STOCKPILES
FORMER THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NUMBER 331-006.1B

SAMPLE	TOTAL LEAD	CONCENTRATIONS (mg/kg)					
		TPHg	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	MtBE
T-1	NA	430	3.0	<1.2	7.3	7.5	<6.2
T-2	NA	31	0.74	0.15	0.65	1.1	4.7
T-3	NA	73	0.34	<0.10	<0.10	0.56	<0.50
T-4	NA	1,600	9.3	17	22	100	27
P-1	NA	27	0.36	0.054	0.53	0.10	13
P-2	NA	1,800	3.4	3.1	11	21	6.0
P-3	NA	14	0.28	0.023	0.048	0.16	2.8
P-4	NA	3,900	19	42	53	330	22
P-5	NA	9.5	0.15	0.080	0.031	0.12	0.066
SS-1	18	700	2.9	4.5	5.2	32	<6.2
SS-2	NA	1,000	4.0	16	11	76	<6.2
SS-3	NA	7,900	65	190	110	590	<25
SS-4	NA	2,900	20	61	35	210	<6.2
SS-5	NA	4,900	24	110	69	390	40
SS-6	NA	4,400	29	55	33	310	<6.2
SS-7	NA	630	1.6	4.6	4.8	34	<6.2
SS-8	11	3,000	8.1	46	36	250	7.2
SS-9	NA	2,600	5.4	36	33	240	<6.2
SS-10	NA	680	1.5	2.0	3.6	19	<2.5
SS-11	NA	1,500	7.1	7.1	19	49	<6.2
SS-12	10	520	5.2	11	6.2	41	9.8
SS-13	NA	480	4.9	9.4	5.7	38	2.5
SS-14	NA	630	6.5	14	7.7	54	11
SS-15	NA	390	2.6	5.1	3.6	16	5.6
SS-16	NA	1,800	8.6	12	3.2	150	11

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK BASIN, PRODUCT PIPING, DISPENSERS,
AND ASSOCIATED STOCKPILES
FORMER THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NUMBER 331-006.1B

SAMPLE	TOTAL LEAD	CONCENTRATIONS (mg/kg)					
		TPHg	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	MtBE
SS-17	NA	1,700	7.2	<1.2	<1.2	130	<6.2
SS-18	NA	1,700	<1.0	13	<1.0	150	23
SS-19	NA	1,400	2.4	46	17	100	23
SS-20	NA	610	5.7	7.2	3.4	35	11
SS-21	NA	290	2.4	1.7	1.4	15	<1.2
SS-22	NA	1,200	11	21	13	100	3.8
SS-23	8.6	750	1.0	1.1	3.5	4.1	1.3
SS-24	NA	520	1.3	2.2	3.8	26	<1.2
SS-25	NA	79	<0.10	0.14	<0.10	1.2	<0.50

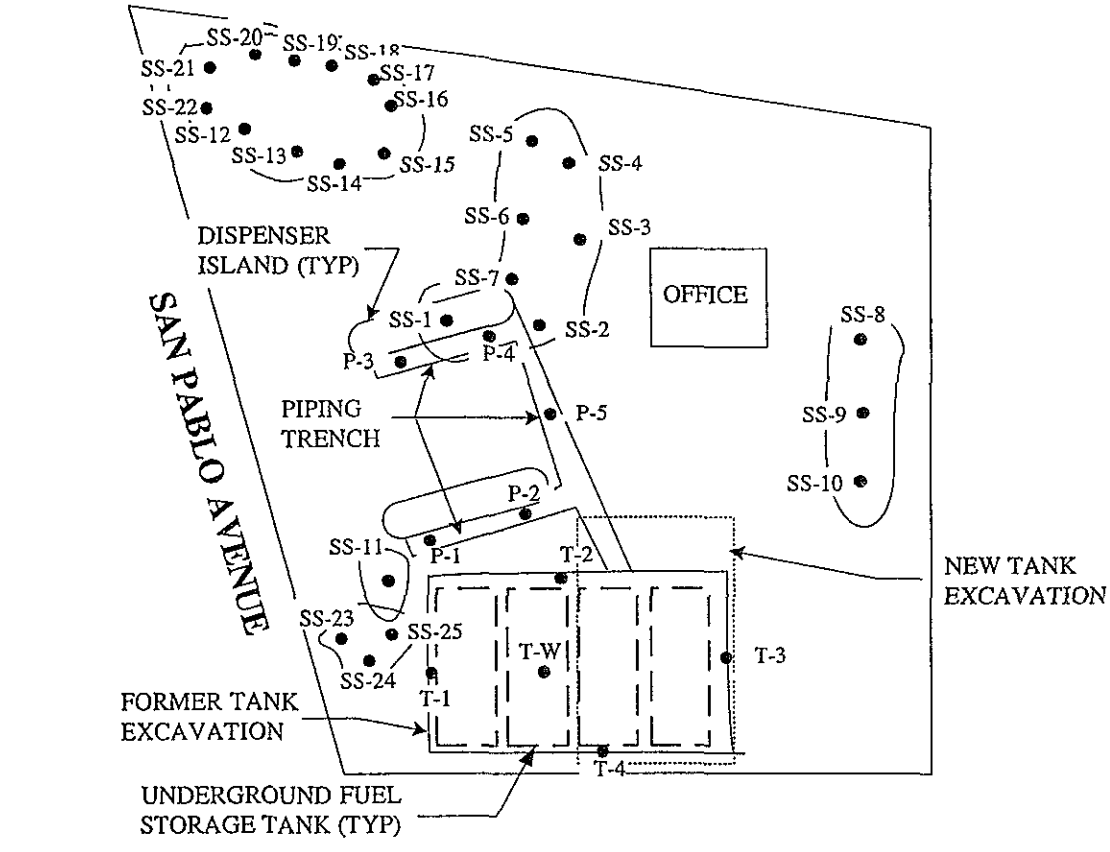
Notes:
mg/kg = Milligrams per kilogram.
TPHg = Total petroleum hydrocarbons as gasoline (EPA Method 8015M).
MtBE = Methyl *tert*-butyl ether (EPA Method 8020A).
NA = Not analyzed.
< = Less than method detection limit.

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER TANK BASIN
FORMER THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
PEG PROJECT NUMBER 331-006.1B

SAMPLE		CONCENTRATIONS (ug/L)					
	TOTAL LEAD mg/L	TPHg	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	MtBE
T-W	NA	130,000	4,900	18,000	3,200	20,000	150,000
T-B-W	0.054	36,000	650	2,000	320	8,800	33,000

Notes:
mg/kg = Milligrams per kilogram.
TPHg = Total petroleum hydrocarbons as gasoline (EPA Method 8015M).
MtBE = Methyl *tert*-butyl ether (EPA Method 8020A).
NA = Not analyzed.

FIGURE



LEGEND

T-1 ● SOIL SAMPLE LOCATION AND DESIGNATION

SCALE

0 30 60

G:\PROJECT\331\Tanks\9535-49\Stamp49.vsd 7/23/98

PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER THRIFTY SERVICE STATION 49
3400 San Pablo Avenue at 34th Street
Oakland, California

SITE MAP

FIGURE: 1

PROJECT: 331-006.1B

APPENDIX A

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – SOIL SAMPLES

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Sample Descript: T-1 (8')
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9803E79-04

Sampled: 03/23/98
Received: 03/23/98
Extracted: 03/23/98
Analyzed: 03/23/98
Reported: 03/24/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**430**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**3.0**
Toluene	1.2	N.D.
Ethyl Benzene	**1.2**	**7.3**
Xylenes (Total)	**1.2**	**7.5**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83
4-Bromofluorobenzene	60	140	Q

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

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Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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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: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Sample Descript: T-2 (8')
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9803E79-03

Sampled: 03/23/98
Received: 03/23/98
Extracted: 03/23/98
Analyzed: 03/24/98
Reported: 03/24/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.5	31
Methyl t-Butyl Ether	0.062	4.7
Benzene	0.012	0.74
Toluene	0.012	0.15
Ethyl Benzene	0.012	0.65
Xylenes (Total)	0.012	1.1
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	137 Q
4-Bromofluorobenzene	60	140	57 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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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: 331-006.1B/Thrifty Oil #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: T-3 (8')	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/24/98
Attention: Doug Andrews	Lab Number: 9803E79-02	Reported: 03/24/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**73**
Methyl t-Butyl Ether	0.50	N.D.
Benzene	**0.10**	**0.34**
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	**0.10**	**0.56**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	145 Q
4-Bromofluorobenzene	60	140	5 Q

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

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Sequoia Analytical

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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: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Sample Descript: T-4 (8')
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9803E79-01

Sampled: 03/23/98
Received: 03/23/98
Extracted: 03/23/98
Analyzed: 03/23/98
Reported: 03/24/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	1600
Methyl t-Butyl Ether	6.2	27
Benzene	1.2	9.3
Toluene	1.2	17
Ethyl Benzene	1.2	22
Xylenes (Total)	1.2	100
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	103
4-Bromofluorobenzene	60	140	4 Q

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

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Project Manager

APR 2 1 1998

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Oakland
Sample Descript: P-1
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9804595-01

Sampled: 04/09/98
Received: 04/09/98
Extracted: 04/10/98
Analyzed: 04/10/98
Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
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	27
Methyl t-Butyl Ether	0.12	13
Benzene	0.025	0.36
Toluene	0.025	0.054
Ethyl Benzene	0.025	0.53
Xylenes (Total)	0.025	0.10
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108
4-Bromofluorobenzene	60	140	30 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: P-2	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804595-02	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	1800
Methyl t-Butyl Ether	6.2	6.0
Benzene	1.2	3.4
Toluene	1.2	3.1
Ethyl Benzene	1.2	11
Xylenes (Total)	1.2	21
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122
4-Bromofluorobenzene	60	140	2 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: P-3	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804595-03	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.5	14
Methyl t-Butyl Ether	0.062	2.8
Benzene	0.012	0.28
Toluene	0.012	0.023
Ethyl Benzene	0.012	0.048
Xylenes (Total)	0.012	0.16
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101
4-Bromofluorobenzene	60	140	51 Q

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, (650) 364-9600, FAX (650) 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
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: P-4	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804595-04	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	3900
Methyl t-Butyl Ether	6.2	22
Benzene	1.2	19
Toluene	1.2	42
Ethyl Benzene	1.2	53
Xylenes (Total)	1.2	330
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	153 Q
4-Bromofluorobenzene	60	140	16 Q

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: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: P-5	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804595-05	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	5.0	9.5
Methyl t-Butyl Ether	0.12	0.066
Benzene	0.025	0.15
Toluene	0.025	0.080
Ethyl Benzene	0.025	0.031
Xylenes (Total)	0.025	0.12
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	131 Q
4-Bromofluorobenzene	60	140	20 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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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-1	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-01	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	700
Methyl t-Butyl Ether	6.2	N.D.
Benzene	1.2	2.9
Toluene	1.2	4.5
Ethyl Benzene	1.2	5.2
Xylenes (Total)	1.2	32
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83
4-Bromofluorobenzene	60	140	3 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-2	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-02	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	1000
Methyl t-Butyl Ether	6.2	N.D.
Benzene	1.2	4.0
Toluene	1.2	16
Ethyl Benzene	1.2	11
Xylenes (Total)	1.2	76
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90
4-Bromofluorobenzene	60	140	2 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-3	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/24/98
Attention: Doug Andrews	Lab Number: 9803E77-03	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1000	7900
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	65
Toluene	5.0	190
Ethyl Benzene	5.0	110
Xylenes (Total)	5.0	590
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	150 Q
4-Bromofluorobenzene	60	140	2 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-4	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-04	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**2900**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**20**
Toluene	**1.2**	**61**
Ethyl Benzene	**1.2**	**35**
Xylenes (Total)	**1.2**	**210**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	139 Q
4-Bromofluorobenzene	60	140	3 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-5	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-05	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	4900
Methyl t-Butyl Ether	6.2	40
Benzene	1.2	24
Toluene	1.2	110
Ethyl Benzene	1.2	69
Xylenes (Total)	1.2	390
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	150 Q
4-Bromofluorobenzene	60	140	4 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-6	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-06	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**4400**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**29**
Toluene	**1.2**	**55**
Ethyl Benzene	**1.2**	**33**
Xylenes (Total)	**1.2**	**310**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85
4-Bromofluorobenzene	60	140	4 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-7	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/23/98
Attention: Doug Andrews	Lab Number: 9803E77-07	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	630
Methyl t-Butyl Ether	6.2	N.D.
Benzene	1.2	1.6
Toluene	1.2	4.6
Ethyl Benzene	1.2	4.8
Xylenes (Total)	1.2	34
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76
4-Bromofluorobenzene	60	140	4 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-8	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/24/98
Attention: Doug Andrews	Lab Number: 9803E77-08	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	3000
Methyl t-Butyl Ether	6.2	7.2
Benzene	1.2	8.1
Toluene	1.2	46
Ethyl Benzene	1.2	36
Xylenes (Total)	1.2	250
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120
4-Bromofluorobenzene	60	140	7 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-9	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/24/98
Attention: Doug Andrews	Lab Number: 9803E77-09	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**2600**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**5.4**
Toluene	**1.2**	**36**
Ethyl Benzene	**1.2**	**33**
Xylenes (Total)	**1.2**	**240**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108
4-Bromofluorobenzene	60	140	7 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/Thrifty #49	Sampled: 03/23/98
2025 Gateway Place, Suite 440	Sample Descript: SS-10	Received: 03/23/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 03/23/98
	Analysis Method: 8015Mod/8020	Analyzed: 03/24/98
Attention: Doug Andrews	Lab Number: 9803E77-10	Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**680**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**1.5**
Toluene	**0.50**	**2.0**
Ethyl Benzene	**0.50**	**3.6**
Xylenes (Total)	**0.50**	**19**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109
4-Bromofluorobenzene	60	140	3 Q

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

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty #49
Sample Descript: SS-11
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9803E77-11

Sampled: 03/23/98
Received: 03/23/98
Extracted: 03/23/98
Analyzed: 03/24/98
Reported: 03/25/98

QC Batch Number: GC032298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	250	1500
Methyl t-Butyl Ether	6.2	N.D.
Benzene	1.2	7.1
Toluene	1.2	7.1
Ethyl Benzene	1.2	19
Xylenes (Total)	1.2	49
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127
4-Bromofluorobenzene	60	140	3 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-12	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-01	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	520
Methyl t-Butyl Ether	2.5	9.8
Benzene	0.50	5.2
Toluene	0.50	11
Ethyl Benzene	0.50	6.2
Xylenes (Total)	0.50	41
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126
4-Bromofluorobenzene	60	140	5 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo
Sample Descript: SS-13
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9804025-02

Sampled: 04/01/98
Received: 04/01/98
Extracted: 04/02/98
Analyzed: 04/02/98
Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	480
Methyl t-Butyl Ether	2.5	2.5
Benzene	0.50	4.9
Toluene	0.50	9.4
Ethyl Benzene	0.50	5.7
Xylenes (Total)	0.50	38
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	129
4-Bromofluorobenzene	60	140	2 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-14	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-03	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	630
Methyl t-Butyl Ether	1.2	11
Benzene	0.25	6.5
Toluene	0.25	14
Ethyl Benzene	0.25	7.7
Xylenes (Total)	0.25	54
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83
4-Bromofluorobenzene	60	140	7 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group	Client Proj. ID: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-15	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-04	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	390
Methyl t-Butyl Ether	1.2	5.6
Benzene	0.25	2.6
Toluene	0.25	5.1
Ethyl Benzene	0.25	3.6
Xylenes (Total)	0.25	16
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	117
4-Bromofluorobenzene	60	140	11 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Pacific Environmental Group
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San Jose, CA 95110

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo
Sample Descript: SS-16
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9804025-05

Sampled: 04/01/98
Received: 04/01/98
Extracted: 04/02/98
Analyzed: 04/02/98
Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1800
Methyl t-Butyl Ether	2.5	11
Benzene	0.50	8.6
Toluene	0.50	12
Ethyl Benzene	0.50	3.2
Xylenes (Total)	0.50	150
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	154 Q
4-Bromofluorobenzene	60	140	273 Q

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
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo
Sample Descript: SS-17
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9804025-06

Sampled: 04/01/98
Received: 04/01/98
Extracted: 04/02/98
Analyzed: 04/02/98
Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**250**	**1700**
Methyl t-Butyl Ether	6.2	N.D.
Benzene	**1.2**	**7.2**
Toluene	1.2	N.D.
Ethyl Benzene	1.2	N.D.
Xylenes (Total)	**1.2**	**130**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100
4-Bromofluorobenzene	60	140	9 Q

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: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo
Sample Descript: SS-18
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9804025-07

Sampled: 04/01/98
Received: 04/01/98
Extracted: 04/02/98
Analyzed: 04/02/98
Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	200	1700
Methyl t-Butyl Ether	5.0	23
Benzene	1.0	N.D.
Toluene	1.0	13
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	150
Chromatogram Pattern:		
Weathered Gas		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126
4-Bromofluorobenzene	60	140	3 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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Pacific Environmental Group	Client Proj. ID: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-19	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-08	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP1

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1400
Methyl t-Butyl Ether	2.5	23
Benzene	0.50	2.4
Toluene	0.50	46
Ethyl Benzene	0.50	17
Xylenes (Total)	0.50	100
Chromatogram Pattern:		Gas

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

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: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-20	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-09	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	610
Methyl t-Butyl Ether	2.5	11
Benzene	0.50	5.7
Toluene	0.50	7.2
Ethyl Benzene	0.50	3.4
Xylenes (Total)	0.50	35
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	116
4-Bromofluorobenzene	60	140	3 Q

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: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-21	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-10	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**290**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	**0.25**	**2.4**
Toluene	**0.25**	**1.7**
Ethyl Benzene	**0.25**	**1.4**
Xylenes (Total)	**0.25**	**15**
Chromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	123
4-Bromofluorobenzene	60	140	4 Q

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: 331-006.1B/3400 San Pablo	Sampled: 04/01/98
2025 Gateway Place, Suite 440	Sample Descript: SS-22	Received: 04/01/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/02/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/02/98
Attention: Doug Andrews	Lab Number: 9804025-11	Reported: 04/03/98

QC Batch Number: GC040298BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1200
Methyl t-Butyl Ether	2.5	3.8
Benzene	0.50	11
Toluene	0.50	21
Ethyl Benzene	0.50	13
Xylenes (Total)	0.50	100
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	81
4-Bromofluorobenzene	60	140	3 Q

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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: SS-23	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804594-01	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	750
Methyl t-Butyl Ether	1.2	1.3
Benzene	0.25	1.0
Toluene	0.25	1.1
Ethyl Benzene	0.25	3.5
Xylenes (Total)	0.25	4.1
Chromatogram Pattern:		
Gas & Unidentified HC		+>C10

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	123
4-Bromofluorobenzene	60	140	8 Q

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: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: SS-24	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804594-02	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**520**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	**0.25**	**1.3**
Toluene	**0.25**	**2.2**
Ethyl Benzene	**0.25**	**3.8**
Xylenes (Total)	**0.25**	**26**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	105
4-Bromofluorobenzene	60	140	6 Q

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, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 331-006.1B/Oakland	Sampled: 04/09/98
2025 Gateway Place, Suite 440	Sample Descript: SS-25	Received: 04/09/98
San Jose, CA 95110	Matrix: SOLID	Extracted: 04/10/98
	Analysis Method: 8015Mod/8020	Analyzed: 04/10/98
Attention: Doug Andrews	Lab Number: 9804594-03	Reported: 04/10/98

QC Batch Number: GC041098BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	79
Methyl t-Butyl Ether	0.50	N.D.
Benzene	0.10	N.D.
Toluene	**0.10**	**0.14**
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	**0.10**	**1.2**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95
4-Bromofluorobenzene	60	140	2 Q

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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APR 0 1 1998

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty #49

Lab Proj. ID: 9803E77

Sampled: 03/23/98
Received: 03/23/98
Analyzed: see below

Reported: 03/25/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9803E77-01 Sample Desc : **SOLID,SS-1**				
Lead by ICP	**mg/Kg**	**03/25/98**	**5.0**	**18**
Lab No: 9803E77-08 Sample Desc : **SOLID,SS-8**				
Lead by ICP	**mg/Kg**	**03/25/98**	**5.0**	**11**

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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APR 14 1998

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo

Lab Proj. ID: 9804025

Sampled: 04/01/98
Received: 04/01/98
Analyzed: see below

Reported: 04/03/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9804025-01 Sample Desc : **SOLID,SS-12**				
Lead by ICP	**mg/Kg**	**04/02/98**	**5.0**	**10**

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

APR 2 1 1998

Sequoia Analytical

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Oakland

Lab Proj. ID: 9804594

Sampled: 04/09/98
Received: 04/09/98
Analyzed: see below

Reported: 04/10/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9804594-01 Sample Desc : **SOLID,SS-23**				
Lead by ICP	**mg/Kg**	**04/10/98**	**5.0**	**8.6**

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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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Thrifty Oil #49
Matrix: SOLID
Work Order #: 9803E79 01-04
Reported: Mar 31, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA
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:	T. C.	T. C.	T. C.	T. C.	T. C.
MS/MSD #:	9803C0602	9803C0602	9803C0602	9803C0602	9803C0602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
Analyzed Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
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	0.19	0.20	0.59	1.2
MS % Recovery:	100	95	100	98	100
Dup. Result:	0.20	0.19	0.20	0.59	1.2
MSD % Recov.:	100	95	100	98	100
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK032298	BLK032298	BLK032298	BLK032298	BLK032298
Prepared Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
Analyzed Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
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:	0.20	0.20	0.20	0.61	1.2
LCS % Recov.:	100	100	100	102	100
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 Granicher
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

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Lab Proj. ID: 9803E79

Received: 03/23/98
Reported: 03/24/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMS: Low surrogate recovery due to sample dilution. High surrogate recovery due to matrix effect.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Oakland
Matrix: SOLID
Work Order #: 9804595 01-05
Reported: Apr 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	980446703	980446703	980446703	980446703	980446703
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
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:	0.21	0.21	0.22	0.67	1.7
MS % Recovery:	105	105	110	112	142
Dup. Result:	0.21	0.20	0.21	0.63	1.3
MSD % Recov.:	105	100	105	105	108
RPD:	0.0	4.9	4.7	6.2	27
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK040998	BLK040998	BLK040998	BLK040998	BLK040998
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
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:	0.18	0.19	0.18	0.52	1.1
LCS % Recov.:	90	95	90	87	92
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Tod Granicher
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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Doug Andrews	Client Proj. ID: 331-006.1B/Oakland Lab Proj. ID: 9804595	Received: 04/09/98 Reported: 04/10/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMS: Sample 9804595-1,2,3,4 had low surrogate recovery due to dilution.
Sample 9804595-4 and 5 had high surrogate recovery due to matrix effect.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Project ID:	331-006.1B/Thrifty #49	
2025 Gateway Place, Suite 440	Matrix:	SOLID	
San Jose, CA 95110			
Attention: Doug Andrews	Work Order #:	9803E77 01-11	Reported: Mar 31, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA	GC032298BTEXEXA
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:	T. C.	T. C.	T. C.	T. C.	T. C.
MS/MSD #:	9803C0602	9803C0602	9803C0602	9803C0602	9803C0602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
Analyzed Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
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	0.19	0.20	0.59	1.2
MS % Recovery:	100	95	100	98	100
Dup. Result:	0.20	0.19	0.20	0.59	1.2
MSD % Recov.:	100	95	100	98	100
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK032298	BLK032298	BLK032298	BLK032298	BLK032298
Prepared Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
Analyzed Date:	3/22/98	3/22/98	3/22/98	3/22/98	3/22/98
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:	0.20	0.20	0.20	0.61	1.2
LCS % Recov.:	100	100	100	102	100
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 Granicher
Project Manager

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

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Thrifty #49
Matrix: SOLID
Work Order #: 9803E77 01-11

Reported: Mar 31, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0324986010MD6	ME0324986010MD6	ME0324986010MD6	ME0324986010MD6
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	T. Sears	T. Sears	T. Sears	T. Sears
MS/MSD #:	9803E7708	9803E7708	9803E7708	9803E7708
Sample Conc.:	N.D.	N.D.	30	33
Prepared Date:	3/24/98	3/24/98	3/24/98	3/24/98
Analyzed Date:	3/25/98	3/25/98	3/25/98	3/25/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	46	45	71	73
MS % Recovery:	92	90	82	80
Dup. Result:	49	48	78	85
MSD % Recov.:	98	96	96	104
RPD:	6.3	6.5	9.4	15
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK032498	BLK032498	BLK032498	BLK032498
Prepared Date:	3/24/98	3/24/98	3/24/98	3/24/98
Analyzed Date:	3/25/98	3/25/98	3/25/98	3/25/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	50	48	49	49
LCS % Recov.:	100	96	98	98
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Tod Granicher
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.

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty #49
Lab Proj. ID: 9803E77

Received: 03/23/98
Reported: 03/25/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMS: Low surrogate recovery due to sample dilution. High surrogate recovery due to matrix effect.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/3400 San Pablo
Matrix: SOLID
Work Order #: 9804025 01-11
Reported: Apr 11, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0402986010MDE	ME0402986010MDE	ME0402986010MDE	ME0402986010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9803H9704	9803H9704	9803H9704	9803H9704
Sample Conc.:	N.D.	N.D.	27	43
Prepared Date:	4/2/98	4/2/98	4/2/98	4/2/98
Analyzed Date:	4/2/98	4/2/98	4/2/98	4/2/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	48	49	77	96
MS % Recovery:	96	98	100	106
Dup. Result:	46	47	80	94
MSD % Recov.:	92	94	106	102
RPD:	4.3	4.2	3.8	2.1
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK040298	BLK040298	BLK040298	BLK040298
Prepared Date:	4/2/98	4/2/98	4/2/98	4/2/98
Analyzed Date:	4/2/98	4/2/98	4/2/98	4/2/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	49	47	49	48
LCS % Recov.:	98	94	98	96
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Please Note:
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/3400 San Pablo
Matrix: SOLID
Work Order #: 9804025 01-11
Reported: Apr 11, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC040298BTEXEXA	GC040298BTEXEXA	GC040298BTEXEXA	GC040298BTEXEXA	GC040298BTEXEXA
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9803E9209	9803E9209	9803E9209	9803E9209	9803E9209
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/2/98	4/2/98	4/2/98	4/2/98	4/2/98
Analyzed Date:	4/2/98	4/2/98	4/2/98	4/2/98	4/2/98
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
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	0.19	0.20	0.61	1.2
MS % Recovery:	100	95	100	102	100
Dup. Result:	0.20	0.19	0.20	0.61	1.2
MSD % Recov.:	100	95	100	102	100
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK040298	BLK040298	BLK040298	BLK040298	BLK040298
Prepared Date:	4/2/98	4/2/98	4/2/98	4/2/98	4/2/98
Analyzed Date:	4/2/98	4/2/98	4/2/98	4/2/98	4/2/98
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.20	0.19	0.20	0.60	1.3
LCS % Recov.:	100	95	100	100	108
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 Granicher
Project Manager

Please Note:
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Proj. ID: 331-006.1B/3400 San Pablo
Lab Proj. ID: 9804025

Received: 04/01/98
Reported: 04/03/98

LABORATORY NARRATIVE

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TPGBMS: Sample 025-1,2,3,4,5,6,7,8,9,10,11 4-BFB diluted low.
Sample 025-5 TFT matrix effect and 4-BFB diluted low.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Oakland
Matrix: SOLID
Work Order #: 9804594 01-03

Reported: Apr 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB	GC040998BTEXEXB
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	980446703	980446703	980446703	980446703	980446703
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
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:	0.21	0.21	0.22	0.67	1.7
MS % Recovery:	105	105	110	112	142
Dup. Result:	0.21	0.20	0.21	0.63	1.3
MSD % Recov.:	105	100	105	105	108
RPD:	0.0	4.9	4.7	6.2	27
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK040998	BLK040998	BLK040998	BLK040998	BLK040998
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
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:	0.18	0.19	0.18	0.52	1.1
LCS % Recov.:	90	95	90	87	92
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 Granicher
Project Manager

Please Note:
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Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Oakland
Matrix: SOLID
Work Order #: 9804594 01-03
Reported: Apr 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0410986010MDE	ME0410986010MDE	ME0410986010MDE	ME0410986010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	T. Sears	T. Sears	T. Sears	T. Sears
MS/MSD #:	980363601	980363601	980363601	980363601
Sample Conc.:	N.D.	0.58	29	26
Prepared Date:	4/10/98	4/10/98	4/10/98	4/10/98
Analyzed Date:	4/10/98	4/10/98	4/10/98	4/10/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	39	41	69	63
MS % Recovery:	78	81	80	74
Dup. Result:	42	43	71	66
MSD % Recov.:	84	85	84	80
RPD:	7.4	4.8	2.9	4.7
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK041098	BLK041098	BLK041098	BLK041098
Prepared Date:	4/10/98	4/10/98	4/10/98	4/10/98
Analyzed Date:	4/10/98	4/10/98	4/10/98	4/10/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	51	50	50	50
LCS % Recov.:	102	100	100	100
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Oakland
Lab Proj. ID: 9804594

Received: 04/09/98
Reported: 04/10/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMS: Sample 594-1,2,3 4-BFB diluted low.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☒ 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: Pacific Environmental Grp Inc.	Project Name: Thrifty Oil Sta 49 / 331-006.113
Address: 2025 Gateway Pl Suite 440	Billing Address (if different):
City: San Jose State: CA Zip Code: 95110	
Telephone: 408-441-7500 FAX #: 441-7539	P.O. #:
Report To: Doug Andrews Sampler: Doug Andrews	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☒ 24 Hours 980379

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-g/BTEX/MTBE	Comments
1. T-4 (8')	3-23-98	S	1	2"x6" Brass	01	X	*Samples are high contamination
2. T-3 (8')					02		
3. T-2 (8')					03		
4. T-1 (8')					04		
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By:	Date: 3-23-98	Time: 4:30pm	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 3/23/98	Time: 16:30

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT) JD

WORKORDER: 9803E79
DATE OF LOG-IN: 03-23-98

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. 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: 3/23/98
12. Time Rec. at Lab: 1630
13. Temp Rec. at Lab: 17°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01	A	T-4 8	1xCORE	SOLID	3/23	
02	↓	T-3 8	↓	↓	↓	
03		T-2 8				
04		T-1 8				

3/23/98 DS

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

Revision 6/18/97
RCPTLOG.XLS

Thrifty Oil, 10,000 Lakewood Blvd, Downey

Chain of Custody

9804595

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

PROJECT No. 331-006.13

Facility No. Thrifty 49 | Facility Address: 3400 San Pablo, Oakland. | Billing Refence Number: 29700-05

CLIENT engineer: Chris Panecatesca | PACIFIC Point of Contact: Doug Andrews | Sampler: Doug Andrews | 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) MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
P-1 1	1	2½"x6"	NP	S	D	4-9-98		X							
P-2 2	↓	↓	↓	↓	↓	↓		↓							
P-3 3															
P-4 4															
P-5 5															

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by	Date	Time	Received by	Date	Time
	4-9-98	17:17			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time
				4/9/98	1717

Pacific Environmental Group
- 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 ☐

Turnaround Time:
- Priority Rush (1 day) ☒
- Rush (2 days) ☐
- Expedited (5 days) ☐
- Standard (10 days) ☐
- As Contracted ☐

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): Chai

WORKORDER: 9805496
DATE OF LOG-IN: 4-9-98

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	1	A	P-1	CORE	S	4/9/98	
2. Custody Seal #:	Put in Remarks Section	2		2				
3. Chain-of-Custody	Present / Absent*	3		3				
4. Traffic Reports or Packing List:	Present / Absent	4		4				
		5		5				
5. Airbill:	Airbill / Sticker Present / Absent							
6. Airbill #:								
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:								
12. Time Rec. at Lab:								
13. Temp Rec. at Lab:								

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

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☒ 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: Pacific Env. Group Inc	Project Name: 331-006.1B / Thrifty #49
Address: 2025 Gateway Pl. Suite 440	Billing Address (if different):
City: San Jose State: 95110 Zip Code:	
Telephone: 408-441-7500 FAX #: 441-7539	P.O. #: 21790-00
Report To: Doug Andrews Sampler: Doug Andrews	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☒ 24 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested: 8015 BETX

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-g/BTEX/MTBE	Total Pb	Comments
1. SS-1	3-23-98	S	1	2"x6"	01	X	X	
2. SS-2					02			
3. SS-3					03			
4. SS-4					04			
5. SS-5					05			
6. SS-6					06			
7. SS-7					07			
8. SS-8					08		X	
9. SS-9					09			
10. SS-10/SS-11*			2		10/11			*separate samples

Relinquished By:	Date: 3-23-98	Time: 4:30 pm	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 3/23/98	Time: 1630

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT) TD

WORKORDER: 9803E77
DATE OF LOG-IN: 03-23-98

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. 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: 3/23/98
12. Time Rec. at Lab: 1630
13. Temp Rec. at Lab: 17°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01	A	SS-1	1 x CORE	SOLID	3/23	
02		2				
03		3				
04		4				
05		5				
06		6				
07		7				
08		8				
09		9				
10		10				
11		11				

3/23/98 D. Reams

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

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Thrifty Oil, 10,000 Lakewood, 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. 331-006.1B

Facility No. Thrifty #49 | Facility Address: 3400 San Pablo Ave, Oakland | Billing Refence Number: 9864025

CLIENT engineer: Chris Panteatescu | PACIFIC Point of Contact: Doug Andrews | Sampler: Doug Andrews | 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) mtBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Total Pb**
1 SS-12	1	2"x6" Brass	NP	S	G	4-1-98		X							X
2 SS-13	↓	↓	↓	↓	↓	↓		↓							
3 SS-14															
4 SS-15															
5 SS-16															
6 SS-17															
7 SS-18															
8 SS-19															
9 SS-20	↓														
10 SS-21*/SS-22*	2	↓	↓	↓	↓	↓		↓							
11															

Comments:
** If total Pb > 50 mg/kg run STLC Pb.
DA

* Separate samples

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
Doug Andrews	4-1-98	4:15pm			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time
				4/1/98	16:15

Mail original Analytical Report to:
Pacific Environmental Group
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 ☐

Turnaround Time:
Priority Rush (1 day) ☒
Rush (2 days) ☐
Expedited (5 days) ☐
Standard (10 days) ☐
As Contracted ☐

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): MIKE
WORKORDER: 9804025
DATE OF LOG-IN: 4/1/98

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. 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: 4/1/98
12. Time Rec. at Lab: 16:15
13. Temp Rec. at Lab: 19°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A	SS-12	1 Brass core	Solid	4/1/98	
2		-13				
3		-14				
4		-15				
5		-16				
6		-17				
7		-18				
8		-19				
9		-20				
10		-21				
11		-22				

6 4/1/98

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

Revision 6/18/97
RCPTLOG.XLS

Thrifty Oil, 10,000 Lakewood Blvd, Downey.

Chain of Custody

9804594

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

PROJECT No. 331-006.1B

Facility No. Thrifty 49 | Facility Address: 3400 San Pablo, Oakland | Billing Refence Number: 29700-00

CLIENT engineer: Chris Pneuelsen | PACIFIC Point of Contact: Doug Andrews | Sampler: Doug Archer | 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) MtBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Total Pb	Comments:
SS-23	1	2"x4"	NP	S	G	4-9-98	1	X							X	
SS-24	↓	↓	↓	↓	↓	↓	2	↓								
SS-25	↓	↓	↓	↓	↓	↓	3	↓								

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4-9-98	1707			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time
			[signature]	4/9/98	1717

Mail original Analytical Report to:
Pacific Environmental Group
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 ☐

Turnaround Time:
Priority Rush (1 day) ☒
Rush (2 days) ☐
Expedited (5 days) ☐
Standard (10 days) ☐
As Contracted ☐

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: DEC
REC. BY (PRINT): Chris

WORKORDER: 9804594
DATE OF LOG-IN: 4-9-98

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. 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: 4/9/98
12. Time Rec. at Lab: 1717
13. Temp Rec. at Lab: 8C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A	SS-23	CORE	C	4/9/98	
2	1	24	↓	↓	↓	
3	↓	25	↓	↓	↓	

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

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APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – GROUNDWATER SAMPLES

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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

MAR 30 1998

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

Attention: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Sample Descript: T-W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9803E78-01

Sampled: 03/23/98
Received: 03/23/98

Analyzed: 03/24/98
Reported: 03/24/98

QC Batch Number: GC032498BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50000	130000
Methyl t-Butyl Ether	2500	150000
Benzene	500	4900
Toluene	500	18000
Ethyl Benzene	500	3200
Xylenes (Total)	500	20000
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	125

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, (650) 364-9600, FAX (650) 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: Doug Andrews

Client Proj. ID: 331-006.1B/
Sample Descript: T-B-W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9803J63-01

Sampled: 03/30/98
Received: 03/31/98

Analyzed: 03/31/98
Reported: 04/01/98

QC Batch Number: GC033198BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	36000
Benzene	100	650
Toluene	100	2000
Ethyl Benzene	100	320
Xylenes (Total)	100	8800
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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: Doug Andrews

Client Proj. ID: 331-006.1B/
Sample Descript: T-B-W
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9803J63-01

Sampled: 03/30/98
Received: 03/31/98

Analyzed: 03/31/98
Reported: 04/01/98

QC Batch Number: GC033198BTEX03A
Instrument ID: GCHP03

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	500	33000

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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: Doug Andrews

Client Proj. ID: 331-006.1B/

Lab Proj. ID: 9803J63

Sampled: 03/30/98
Received: 03/31/98
Analyzed: see below

Reported: 04/01/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9803J63-01 Sample Desc : **LIQUID,T-B-W**				
Lead by AA	**mg/L**	**04/01/98**	**0.015**	**0.054**

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, (650) 364-9600, FAX (650) 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: Doug Andrew

Client Project ID: 331-006.1B/Thrifty Oil #49
Matrix: LIQUID
Work Order #: 9803E78 01
Reported: Mar 27, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032498BTEX02A	GC032498BTEX02A	GC032498BTEX02A	GC032498BTEX02A	GC032498BTEX02A
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:	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini
MS/MSD #:	9803C4202	9803C4202	9803C4202	9803C4202	9803C4202
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/24/98	3/24/98	3/24/98	3/24/98	3/24/98
Analyzed Date:	3/24/98	3/24/98	3/24/98	3/24/98	3/24/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.8	9.7	10.8	33	64
MS % Recovery:	88	97	108	110	107
Dup. Result:	8.7	9.6	10.7	33	63
MSD % Recov.:	87	96	107	110	105
RPD:	1.1	1.0	0.9	0.0	1.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK032498	BLK032498	BLK032498	BLK032498	BLK032498
Prepared Date:	3/24/98	3/24/98	3/24/98	3/24/98	3/24/98
Analyzed Date:	3/24/98	3/24/98	3/24/98	3/24/98	3/24/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	9.8	10.8	33	63
LCS % Recov.:	88	98	108	110	105

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Tod Granicher
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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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: Doug Andrews

Client Proj. ID: 331-006.1B/Thrifty Oil #49
Lab Proj. ID: 9803E78

Received: 03/23/98
Reported: 03/24/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

APR 1 0 1998

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Project: 331-006.1B/

Enclosed are the results from samples received at Sequoia Analytical on March 31, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9803J63 -01	LIQUID, T-B-W	03/30/98	Lead by AA
9803J63 -01	LIQUID, T-B-W	03/30/98	MTBE_W Methyl t-Butyl Ethe
9803J63 -01	LIQUID, T-B-W	03/30/98	TPHGBW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Quality Assurance Department

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331.006.1B/Arco
Matrix: LIQUID
Work Order #: 9803J63 01
Reported: Apr 10, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC033198BTEX03A	GC033198BTEX03A	GC033198BTEX03A	GC033198BTEX03A	GC033198BTEX03A
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:	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini
MS/MSD #:	9803D9603	9803D9603	9803D9603	9803D9603	9803D9603
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/31/98	3/31/98	3/31/98	3/31/98	3/31/98
Analyzed Date:	3/31/98	3/31/98	3/31/98	3/31/98	3/31/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10.2	10.3	31	61
MS % Recovery:	100	102	103	103	102
Dup. Result:	9.9	10.2	10.2	31	60
MSD % Recov.:	99	102	102	103	100
RPD:	1.0	0.0	1.0	0.0	1.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK033198	BLK033198	BLK033198	BLK033198	BLK033198
Prepared Date:	3/31/98	3/31/98	3/31/98	3/31/98	3/31/98
Analyzed Date:	3/31/98	3/31/98	3/31/98	3/31/98	3/31/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10.2	10.4	10.4	31	62
LCS % Recov.:	102	104	104	103	103
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

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Tod Granicher
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

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331.006.1B/Arco
Matrix: LIQUID
Work Order #: 9803j63 01
Reported: Apr 10, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Lead
QC Batch#:	ME031987000MDA
Analy. Method:	EPA 239.2
Prep. Method:	EPA 3020
Analyst:	J. Jencks
MS/MSD #:	9803H4301
Sample Conc.:	N.D.
Prepared Date:	3/31/98
Analyzed Date:	4/1/98
Instrument I.D.#:	MTJA6
Conc. Spiked:	0.050 mg/L
Result:	0.051
MS % Recovery:	102
Dup. Result:	0.052
MSD % Recov.:	104
RPD:	1.9
RPD Limit:	0-20

LCS #:	BLK033198
Prepared Date:	3/31/98
Analyzed Date:	4/1/98
Instrument I.D.#:	MTJA6
Conc. Spiked:	0.050 mg/L
LCS Result:	0.041
LCS % Recov.:	82

MS/MSD	75-125
LCS	80-120
Control Limits	

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Proj. ID: 331-006.1B/
Lab Proj. ID: 9803J63

Received: 03/31/98
Reported: 04/01/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 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

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Doug Andrews

Client Project ID: 331-006.1B/Oakland
Matrix: LIQUID
Work Order #: 9804594 01-03
Reported: Apr 20, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC040998BTEX02A	GC040998BTEX02A	GC040998BTEX02A	GC040998BTEX02A	GC040998BTEX02A
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:	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini	C. DeMartini
MS/MSD #:	980434404	980434404	980434404	980434404	980434404
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	9.8	10.1	31	59
MS % Recovery:	100	98	101	103	98
Dup. Result:	9.8	9.6	9.9	31	52
MSD % Recov.:	98	96	99	103	87
RPD:	2.0	2.1	2.0	0.0	13
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK040998	BLK040998	BLK040998	BLK040998	BLK040998
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.8	9.7	9.9	31	58
LCS % Recov.:	98	97	99	103	97
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 Granicher
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

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

☒ 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: Pacific ENV Group Inc	Project Name: 331-006.1B / Thrifty Oil #49
Address: 2025 Gateway Pl. Suite 440	Billing Address (if different):
City: San Jose State: CA Zip Code: 95110	
Telephone: 408-441-7500 FAX #: 441-7539	P.O. #:
Report To: Doug Archews Sampler: Doug Archews	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time:
☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours
☐ 7 Working Days ☐ 2 Working Days
☐ 5 Working Days ☒ 24 Hours 9803E78

☐ Drinking Water
☐ Waste Water
☐ Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested: THP-G/BTEX/MTBE	Comments
1. T-W	3-23-98	W	3	40ml	01	X	
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished By:	Date: 3-23-98	Time: 4:30pm	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date: 3/23/98	Time: 1630

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEL
REC. BY (PRINT) TD

WORKORDER: 9803E78
DATE OF LOG-IN: 03-23-98

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. 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: 3/23/98
12. Time Rec. at Lab: 1630
13. Temp Rec. at Lab: 17°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01	A-C	T-W	3 x VOA	LIQ	3/23	

3/23/98 J. Deluna

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

Revision 6/18/97
RCPTLOG.XLS

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: Pacific Environmental Group	Project Name: 331-006.1B -ARCO
Address: 2025 Gateway Pl. Suite 440	Billing Address (if different):
City: San Jose State: CA Zip Code: 95110	
Telephone: 408-441-7500 FAX #: 441-7539	P.O. #:
Report To: Doug Andrews Sampler: Doug Andrews	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time:
☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours
☐ 7 Working Days ☐ 2 Working Days
☐ 5 Working Days ☒ 24 Hours

☐ Drinking Water
☒ Waste Water
☐ Other

Analyses Requested 9803J63

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-g/BTEX/MTBE	Total Pb	Comments
1. T-B-W	3-30-98	W	3	40ml	1	X		
2. T-B-W	↓	↓	1	1l	1		X	
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

Pink - Client
Yellow - Sequoia
White - Sequoia

Relinquished By: Doug Andrews	Date: 3-31-98	Time: 9:23am	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By Lab: Tara P.	Date: 3/31/98 Time: 0920

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT) Tara

WORKORDER: 9805563
DATE OF LOG-IN: 3/31/98

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. 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: 3/31/98
12. Time Rec. at Lab: 0920
13. Temp Rec. at Lab: 6°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A	T-B-W	1L HNO3	L	3/30/98	
1	B-D	↓	3 VOA	↓	↓	

Tara 3/31/98

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

Revision 6/18/97
RCPTLOG.XLS

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: Pacific Environmental Group	Project Name: 331-006.1B -ARCO
Address: 2025 Gateway Pl. Suite 440	Billing Address (if different):
City: San Jose State: CA Zip Code: 95110	
Telephone: 408-441-7500 FAX #: 441-7539	P.O. #:
Report To: Doug Anderson Sampler: Doug Anderson	QC Data: ☒ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours ☐ 7 Working Days ☐ 2 Working Days ☐ 5 Working Days ☒ 24 Hours

☐ Drinking Water ☒ Waste Water ☐ Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-g/BTEX/MTBE	Total Pb	Comments
1. T-B-W	3-30-98	W	3	40ml		X		
2. T-B-W	↓	↓	1	1l			X	
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

Relinquished By: Doug Anderson	Date: 3-31-98	Time: 9:00am	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By Lab: Tara P.	Date: 3/31/98 Time: 0920

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment_____ Page ___ of ___

Pink - Client
Yellow - Sequoia
White - Sequoia

APPENDIX C

NONHAZARDOUS WASTE DATA FORMS

Soil Master (c) TPS Technologies, Inc.

Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number	Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00299	Thrifty Oil #049	3400 San Pablo Ave.	Oakland	CA	94581

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
19	04/07/98 07:07	4ROGERS		76,660M	32,280M	44,380	22.19
20	04/07/98 07:10	4ROGERS		67,040M	31,120M	35,920	17.96
21	04/07/98 08:13	4ROGERS		68,800M	32,280M	36,520	18.26
22	04/07/98 08:35	4ROGERS		69,920M	33,820M	36,100	18.05
23	04/07/98 08:49	4ROGERS		64,420M	31,120M	33,300	16.65
24	04/07/98 09:46	4ROGERS		76,660M	32,280M	44,380	22.19
25	04/07/98 09:51	4ROGERS		78,160M	33,820M	44,340	22.17
26	04/07/98 10:16	4ROGERS		69,480M	31,120M	38,360	19.18
27	04/07/98 11:17	4ROGERS		75,720M	33,820M	41,900	20.95
28	04/07/98 11:57	4ROGERS		72,060M	32,280M	39,780	19.89
29	04/07/98 11:59	4ROGERS		74,320M	31,120M	43,200	21.60
30	04/07/98 12:41	4ROGERS		77,460M	33,820M	43,640	21.82
31	04/07/98 13:10	4ROGERS		78,620M	32,280M	46,340	23.17
32	04/07/98 13:22	4ROGERS		71,500M	31,120M	40,380	20.19
33	04/07/98 14:18	4ROGERS		74,460M	33,820M	40,640	20.32
34	04/07/98 14:20	4ROGERS		72,280M	32,280M	40,000	20.00
35	04/07/98 15:15	4ROGERS		74,640M	31,120M	43,520	21.76
36	04/07/98 15:39	4ROGERS		77,560M	38,680M	38,880	19.44
37	04/08/98 06:23	4ROGERS		81,500M	33,820M	47,680	23.84
38	04/08/98 06:32	4ROGERS		80,660M	32,280M	48,380	24.19
39	04/08/98 06:52	4ROGERS		83,440M	32,960M	50,480	25.24
40	04/08/98 07:18	4ROGERS		80,220M	31,600M	48,620	24.31
41	04/08/98 07:54	4ROGERS		72,020M	30,060M	41,960	20.98
42	04/08/98 08:17	4ROGERS		71,260M	32,280M	38,980	19.49
43	04/08/98 08:18	4ROGERS		74,560M	32,960M	41,600	20.80
44	04/08/98 08:21	4ROGERS		74,220M	33,820M	40,400	20.20
45	04/08/98 08:43	4ROGERS		70,340M	31,600M	38,740	19.37
46	04/08/98 09:16	4ROGERS		72,860M	30,060M	42,800	21.40
47	04/08/98 09:50	4ROGERS		68,100M	32,280M	35,820	17.91
48	04/08/98 09:53	4ROGERS		68,000M	32,960M	35,040	17.52
49	04/08/98 09:58	4ROGERS		68,460M	33,820M	34,640	17.32
50	04/08/98 10:22	4ROGERS		75,060M	31,600M	43,460	21.73
51	04/08/98 11:10	4ROGERS		61,500M	30,060M	31,440	15.72
52	04/08/98 11:23	4ROGERS		53,820M	32,280M	21,540	10.77

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
86.70%	52	182.20%	600.00(tons)	686.58(tons)

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00299 Thrifty Oil #049	3400 San Pablo Ave.	Oakland	CA	94581

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	03/26/98 12:22	4ROGERS		81,520M	31,880M	49,640	24.82
2	03/26/98 14:38	4ROGERS		80,400M	30,700M	49,700	24.85
3	03/26/98 14:39	4ROGERS		75,780M	31,800M	43,980	21.99
4	03/26/98 14:39	4ROGERS		84,900M	30,700M	54,200	27.10
5	03/26/98 15:17	4ROGERS		79,100M	31,880M	47,220	23.61
6	03/26/98 15:56	4ROGERS		80,420M	30,700M	49,720	24.86
7	03/27/98 08:04	4ROGERS		79,200M	31,860M	47,340	23.67
8	03/27/98 08:07	4ROGERS		76,280M	31,120M	45,160	22.58
9	03/27/98 08:10	4ROGERS		76,800M	30,420M	46,380	23.19
10	03/27/98 09:31	4ROGERS		74,860M	31,860M	43,000	21.50
11	03/27/98 09:38	4ROGERS		77,840M	30,420M	47,420	23.71
12	03/27/98 09:48	4ROGERS		68,600M	31,120M	37,480	18.74
13	03/27/98 10:59	4ROGERS		71,720M	30,420M	41,300	20.65
14	03/27/98 11:24	4ROGERS		68,120M	31,120M	37,000	18.50
15	03/27/98 11:32	4ROGERS		71,760M	31,860M	39,900	19.95
16	03/27/98 11:58	4ROGERS		77,720M	30,420M	47,300	23.65
17	03/27/98 12:39	4ROGERS		70,200M	31,120M	39,080	19.54
18	03/27/98 13:17	4ROGERS		79,160M	31,860M	47,300	23.65

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
93.30%	56	198.10%	600.00(tons)	406.56 (tons)

APPENDIX D

UNIFORM HAZARDOUS WASTE MANIFEST

Please print or type. Form designed for use on elite (12 pitch) typewriter.

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CA L 0 0 0 1 6 1 6 3 0 0 0 0 0 0 1 — Manifest Document No — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 97245691

B. State Generator's ID

3. Generator's Name and Mailing Address:
THRIFTY OIL COMPANY
10000 LAKEWOOD BLVD.; DOWNEY, CA 90240

4. Generator's Phone (562) 923-9876

5. Transporter 1 Company Name: ADAMS SERVICES, INC.
6. US EPA ID Number: CAD 9 8 2 3 1 2 5 6 6 8

C. State Transporter's ID

D. Transporter's Phone: 310-523-4430

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
DeMENNO/KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

10. US EPA ID Number: CAT080013352

G. State Facility's ID: CAT080013352

H. Facility's Phone: 310-537-7100

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. (OIL & WATER) NON-R.C.R.A. HAZARDOUS WASTE LIQUID	001	TT	X1/300	G	State 241 / EPA/Other NONE
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above:
99% WATER
1% OIL

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information:
DON PROPER PROTECTIVE GEAR
NO SMOKING; E.R.G. #27
EMERGENCY #:

Site: ARCO
3400 San Pablo Ave.; Oakland, CA

Contractor: E.E. Curtis Construction Co., Inc.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year: 03 22 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Jeanal — Signature: [signature] — Month Day Year: 03 22 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: JOHN P. SVAY — Signature: [signature] — Month Day Year: 03 2[illegible]

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

97245691

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (4/97)
EPA 8700—22

Green: TRANSPORTER RETAINS

APPENDIX E

TANK CERTIFICATE OF DESTRUCTION

CERTIFICATE OF DESTRUCTION

COMPANY NAME Arco

ADDRESS 3400 San Pablo Ave
Oakland

ADAMS STEEL CERTIFIES THAT 1110 and 1118 tank

HAS/HAVE BEEN SCRAPPED, CRUSHED AND TOTALLY DESTROYED ON: 3/24/98

SIGNATURE Cheryl Hartman

TITLE Weighmaster

DATE 3/24/98

Adams Steel
3200 E. Frontera Street
Anaheim, California 92806
(714) 630-6523
FAX (714) 630-5836

Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12 pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A [illegible]
Manifest Document No.: [illegible]
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 97245701

B. State Generator's ID: [illegible]

3. Generator's Name and Mailing Address:
THRIFTY OIL COMPANY
10000 LAKEWOOD BLVD.; DOWNEY, CA 90240

4. Generator's Phone (562) 923-9876

5. Transporter 1 Company Name: ADAMS SERVICES, INC.
6. US EPA ID Number: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: 310-523-6430

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
D/K ENVIRONMENTAL
3650 E. 26th STREET
VERNON, CA 90023

10. US EPA ID Number: CAT080013681
G. State Facility's ID: [illegible]
H. Facility's Phone: 213-268-5056

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	002	TT	18000	P	State: 512; EPA/Other: N/A
b.					State: ; EPA/Other:
c.					State: ; EPA/Other:
d.					State: ; EPA/Other:

J. Additional Descriptions for Materials Listed Above
PROFILE #280319-07
Appointment: 3/24; 11:30-Noon
Tanks 90509 & 90504

K. Handling Codes for Wastes Listed Above
a. 99
b.
c.
d.

15. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PERSONAL PROTECTIVE CLOTHING
Site: ARCO
3400 San Pablo Ave; Oakland, CA
Contractor: F.E. Curtis Construction Co., Inc.

16. *GENERATOR'S CERTIFICATION:* I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] | Signature: [illegible] | Month/Day/Year: 03 / 23 / 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Month/Day/Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month/Day/Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Rafael Angeles | Signature: [illegible] | Month/Day/Year: [illegible]

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

97245701

APPENDIX F

PROCEDURES FOR SOIL SAMPLING

Standard Operating Procedures
For
Soil Sampling

The following section describes field techniques that were performed by PEG personnel in the performance of the tasks involved with this project.

1.0 UST Basin Soil Sampling Protocol

Soil sampling was performed under the direction of the appropriate agency representative. PEG attempted to collect undisturbed soil samples whenever possible. PEG utilized two methods when collecting UST basin soil samples. The first method was to collect the soil sample from the excavator bucket. Under the direction of the agency representative, the operator lowered the excavator bucket into the excavation bottom or sidewall, retrieved a full bucket of soil, and placed the bucket near the PEG geologist. Loose soil was removed so that undisturbed soil remained in the bucket. The PEG geologist pushed the open end of a pre-cleaned sample jar into the soil in several locations until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

The second method of collecting UST basin samples consisted of using a hand auger to collect the soil samples. This method was used when the excavator could not reach the desired sample location. The hand auger was drilled to the desired depth, retrieved from the hole, and a pre-cleaned sample jar was pushed into the auger until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The hand auger was washed in soap solution and double rinsed with tap and purified water between each sample to reduce the potential for cross contamination between samples.

2.0 Dispenser and Product Piping Soil Sampling Protocol

Soil sampling was performed under the direction of the appropriate agency representative. PEG attempted to collect undisturbed soil samples whenever possible. PEG collected the soil samples for the dispensers and product piping from the backhoe bucket. Under the direction of the agency representative, the operator lowered the

backhoe bucket into the excavation bottom, retrieved a full bucket of soil, and placed the bucket near the PEG geologist. Loose soil was removed so that undisturbed soil remained in the bucket. The PEG geologist pushed the open end of a pre-cleaned sample jar into the soil in several locations until the jar was packed tight. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

3.0 Stockpile Soil Sampling Protocol

Soil stockpile samples were collected at the rate of one sample for approximately 30 to 50 cubic yards of soil excavated. The soil samples were collected in pre-cleaned glass sample jars. After selecting the sample locations, the PEG geologist dug into the soil stockpile approximately one foot, then pushed the open end of a sample jar into the hole until the jar was packed tight with soil. The jar was then sealed with a Teflon-lined cap, labeled, and stored in a chilled cooler for transport to the laboratory. The PEG geologist wore latex gloves while collecting the soil samples, and the gloves were changed between samples to reduce the potential for cross contamination between samples.

4.0 Soil Sample Analyses

The soil samples collected from the UST basin, dispensers, and product piping were analyzed for constituents mandated by the regulatory agency. These analytical methods are listed in Table 1. Soil samples collected from the soil stockpiles were analyzed for total petroleum hydrocarbons as gasoline or diesel by EPA Method 8015 Modified; benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020; and methyl tert-butyl ether (MtBE) by EPA Method 8020 Modified. Selected soil samples were analyzed for total lead by EPA Method 6010A.