



May 20, 1996

Ms. Amy Leech Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, CA 94501

RE: Unocal Service Station #5760

376 Lewelling Boulevard San Lorenzo, California

Dear Ms. Leech:

Per the request of the Unocal Corporation Project Manager, Ms. Tina R. Berry, enclosed please find our most recent data report for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2321.

Sincerely,

MPDS Services, Inc.

Jarrel F. Crider

/dr

Enclosure

cc: Ms. Tina R. Berry



April 19, 1996 Project 310-058.5A

Mr. Richard Hiett Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Re: Unocal Corporation

Quarterly Summary Report

First Quarter 1996

Dear Mr. Hiett:

As directed by Ms. Tina Berry of Unocal Corporation, Pacific Environmental Group, Inc. is forwarding the quarterly summary report for the following location:

Service Station

Location

5760

376 Lewelling Boulevard, San Lorenzo

If you have questions or comments, please do not hesitate to contact our office at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.

Joseph Muzzio
Project Geologist

Enclosure

cc: Ms. Tina Berry, Unocal Corporation

Ms. Amy Leech, Alameda County Environmental Health Care Services

PROTECTION 96 APR 25 PM 2: 00





Quarterly Summary Report First Quarter 1996

Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California

City/County ID #: None

County: Alameda

BACKGROUND

The underground storage tanks were removed and replaced in November 1987. Currently there are nine monitoring wells on-site. Groundwater monitoring and sampling of wells began in February 1988. A remedial action plan was submitted during the third quarter 1994. A groundwater extraction system and soil vapor extraction system was installed in August and September 1995.

RECENT QUARTER ACTIVITIES

Quarterly groundwater monitoring and sampling were conducted in January 1996. Monthly monitoring of soil and groundwater remedial systems were performed and appropriate reports documenting findings were submitted, as well as a quarterly performance report. In February 1996, modifications to the present sampling and monitoring activities were presented in a letter to Unocal and Alameda County, recommending a reduction to semiannual groundwater sampling for some of the monitoring wells.

NEXT QUARTER ACTIVITIES

Groundwater monitoring and sampling for the second quarter 1996 will be performed. Operation of soil vapor and groundwater extraction and treatment system will continue.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? No.

Free product delineated? Yes.

Amount of groundwater contaminant recovered this quarter? Approximately 14 pounds.

Soil remediation in progress? Yes.

Start? October 1995.

Anticipated completion date? Unknown.

Dissolved/free product remediation in progress? Yes.

Start? October 1995.

Anticipated completion? Unknown.

CONSULTANT: Pacific Environmental Group, Inc.



April 18, 1996 Project 310-058.5A

Ms. Tina Berry Unocal Corporation 2000 Crow Canyon Place, Suite 400 San Ramon, California 94583 Jone Genfluence?

Jacobsenfluence?

ORC locations?

Initial Bioreclamation assessment.

Re: Remedial Action Performance Summary - First Quarter 1996

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

Dear Ms. Berry:

This letter presents a remedial action performance summary for the site referenced above. A process flow diagram and equipment layout are included as Figures 1 and 2. Attachment A presents the remedial performance summary which includes key operating parameters. Certified analytical reports and chain-of-custody documentation are presented as Attachment B, and field data sheets are included as Attachment C. The status of recent remedial activities is presented below.

Recent Remedial Activities

Pacific Environmental Group, Inc. (PACIFIC) performed the following remedial activities during the first quarter of 1996:

- Troubleshot and repaired groundwater extraction pumps in Wells U-1 and U-3.
- · Replaced silted-up groundwater carbon unit.
- Troubleshot leaking bag filter housing.
- Performed regular operation and maintenance, monitoring, sampling, recordkeeping, and reporting.

Should you have any questions regarding the contents of this remedial action performance summary, please do not hesitate to contact our office.

Sincerely,

Pacific Environmental Group, Inc.

Steven D. Clark

Project Hydrogeologist

HG 167

Andrew D. Lehane

Project Engineer

Attachments: Figure 1 - Process Flow Diagram - Groundwater/SVE System

Figure 2 - Equipment Layout - Plan View

Attachment A - Remedial Action Performance Summary

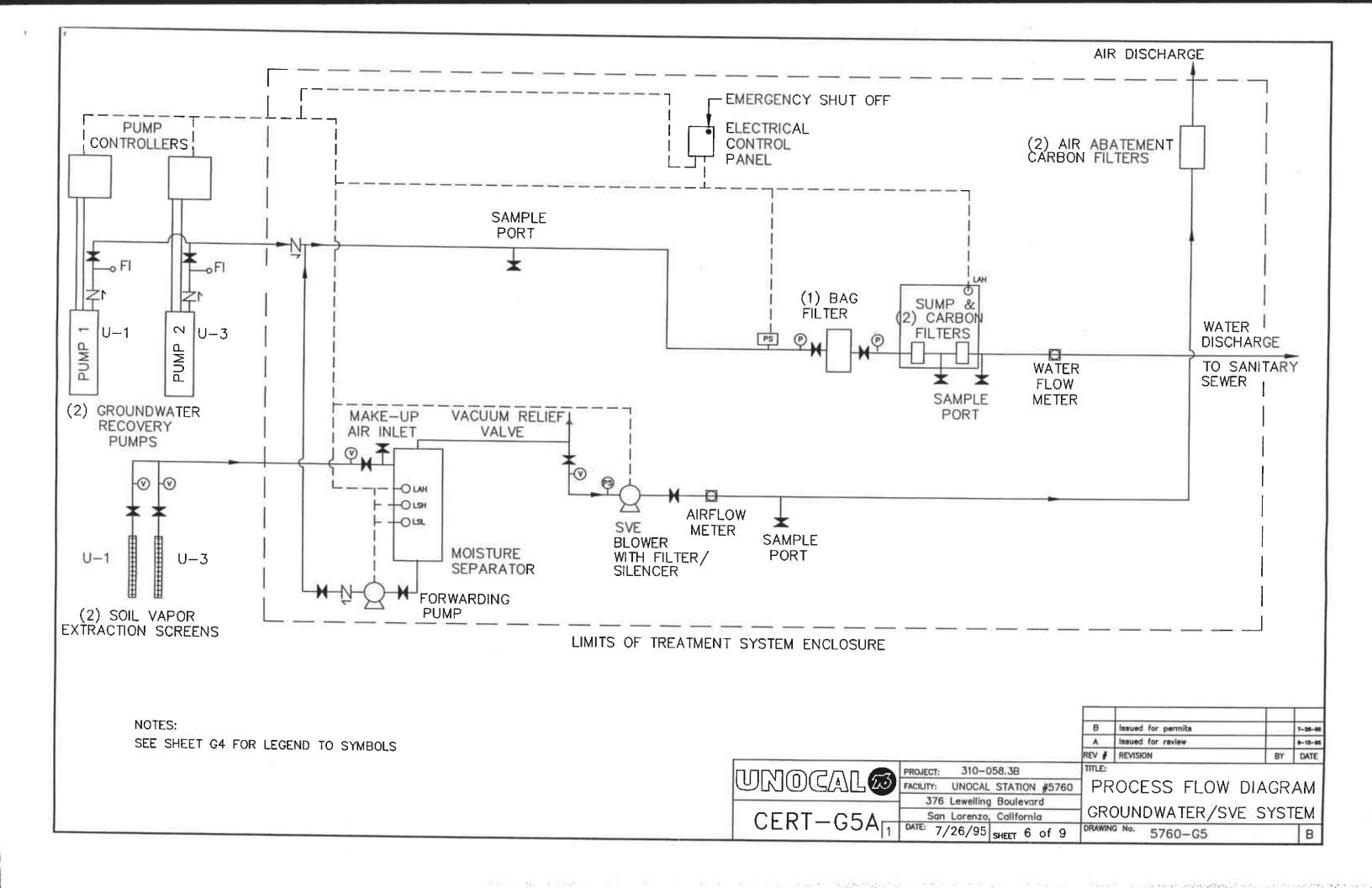
Attachment B - Certified Analytical Reports and Chain-of-Custody

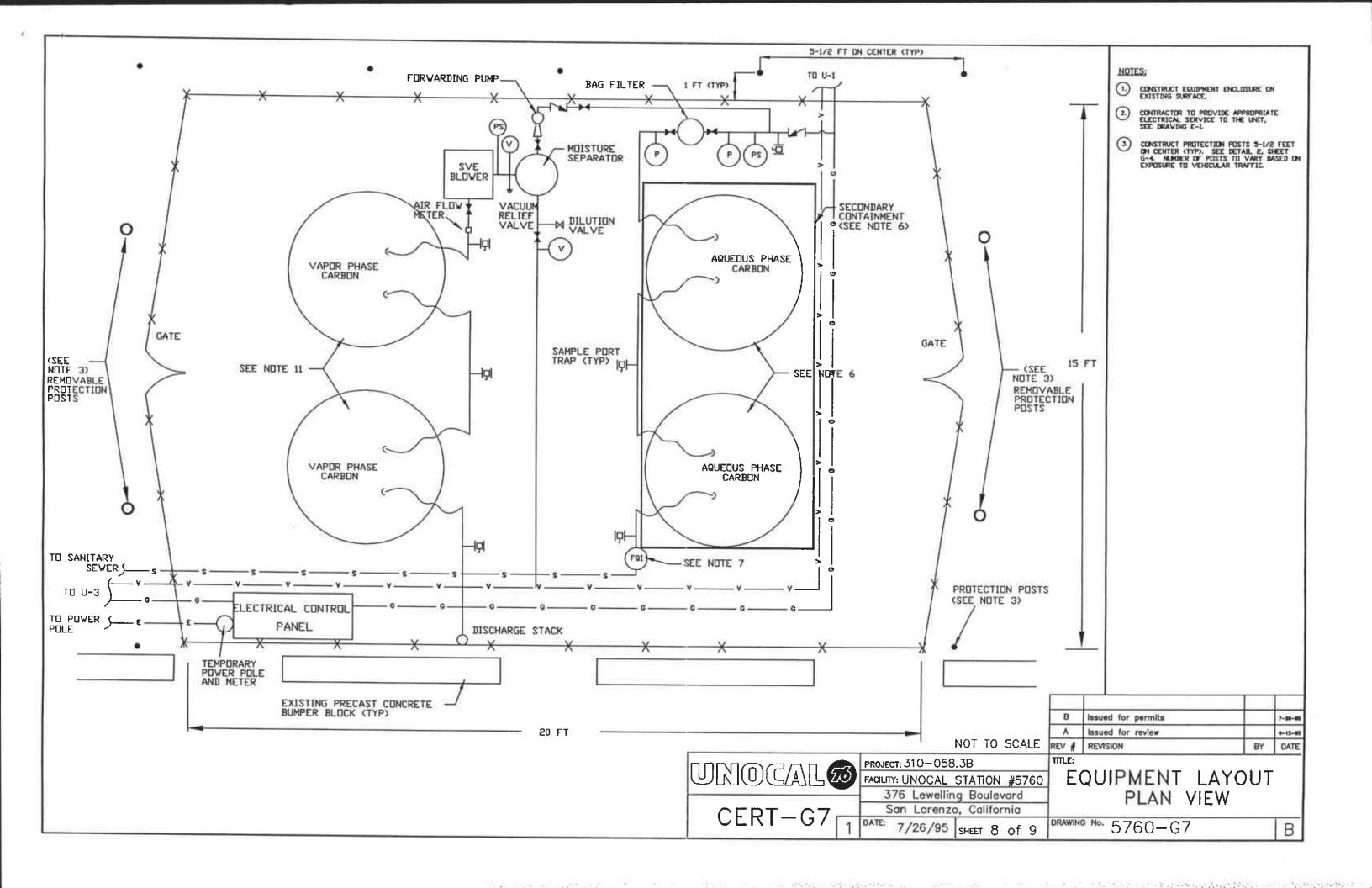
Documentation

Attachment C - Field Data Sheets

cc: Mr. Richard Hiett, Regional Water Quality Control Board - S.F. Bay Region

Ms. Amy Leech, Alameda County Health Care Services





ATTACHMENT A REMEDIAL ACTION PERFORMANCE SUMMARY

ATTACHMENT A

REMEDIAL ACTION PERFORMANCE SUMMARY: FIRST QUARTER 1996 GROUNDWATER DEWATERING SYSTEM

Site Name: Unocal Service Station 5760

Site Address: 376 Lewelling Boulevard, San Lorenzo, CA

Abatement Equipment: Granular-Activated Carbon Vessels

Start-Up Date: 10/18/95

Permitting Agency: Oro Loma Sanitary District

Permit No.: 024

Permit Expiration Date: 6/30/96

Estimated Shutdown Date: Unknown

REMEDIAL OBJECTIVES

Dewatering to enhance soil vapor extraction

o Regulatory Compliance

OPERATIONAL DATA

| reatment System Data |
|----------------------------------|
| Operational Status |
| Groundwater Volume Pumped (gals) |

| January | Pedruary | March | | |
|---------|-------------|--------|--|--|
| Down | Operational | Down | | |
| 4,319 | 9,630 | 53,340 | | |

Table 1 Page A-3

Treatment System Analytical Data Summary EPA Method 8020 Analyses

| INFLUENT | EFFLUENT |
|----------|----------|
| Detected | ND |
| | |

Table 2 Page A-4

TPH and Benzene Summary
Influent TPPH-gasoline (µg/L)
Influent Benzene (µg/L)
Effluent TPPH-gasoline (µg/L)
Effluent Benzene (µg/L)

Mass TPPH-gasoline Removed (lbs)
Mass Benzene Removed (lbs)

| January | February | March | _ |
|---------|----------|--------|------------|
| NS | 32,000 | NS | |
| NS | 460 | NS | |
| NS | ND | NS | |
| NS | ND | NS | Cumulative |
| 0.1 † | 1.3 | 7.3 † | 11.0 |
| 0.00 † | 0.02 | 0.11 † | 0.16 |

Table 1 Page A-3
Table 1 Page A-3
Table 2 Page A-4
Table 2 Page A-4
Table 1 Page A-3

Table 1 Page A-3

PERFORMANCE EVALUATION

Dewatering

Due to (1) pump malfunction, (2) carbon backup, and (3) bag-filter housing closure failure, the groundwater extraction system was operational less than two weeks out of the quarter. However, with these problems resolved, the system is ready for full operation during the second quarter 1996.

Regulatory Compliance

During February 1996, the groundwater dewatering and treatment system operated in compliance with all discharge limitations set forth by Oro Loma Sanitary District Permit 024. A carbon changeout was performed March 25, 1996 to the groundwater extraction system.

ACTIONS/RECOMMENDATIONS

Finish repair to bag filter assembly and restart system.

NOTES

TPPH = Total purgeable petroleum hydrocarbons

ND = Not detected above detection limit

NS = Not sampled

gals = Gallons

μg/L = Micrograms per liter

lbs = Pounds

= System found down; samples not taken (prior concentrations assumed for calculations)

Note: When appropriate, tabulated data is followed by associated graphical presentation.

ATTACHMENT A (continued) REMEDIAL ACTION PERFORMANCE SUMMARY: FIRST QUARTER 1996 SOIL-BASED REMEDIAL SYSTEM

Site Name: Unocal Service Station 5760

Site Address: 376 Lewelling Boulevard, San Lorenzo, CA

Abatement Equipment: 2-1,000 lb vapor-phase carbon cannisters

Start-Up Date: 10/18/95

Permitting Agency: BAAQMD

ATC No.: 14994

ATC Expiration Date: 10/11/97

Estimated Shutdown Date: Unknown

REMEDIAL OBJECTIVES

- o Migration Control
- Mass Removal
- Regulatory Compliance

OPERATIONAL DATA

Treatment System Data

Operational Status

Instantaneous Flow Rate (scfm)

| January | February | March |
|-------------|-------------|-------|
| Operational | Operational | Down |
| 29 | 54 | N/A |

Table 3 Page A-5

Table 3 Page A-5

Table 3 Page A-5

Table 4 Page A-6

Table 4 Page A-6

Table 3 Page A-5

Table 3 Page A-5

TPPH and Benzene Summary

Influent TPPH-gasoline (ppmv) Influent Benzene (ppmv) Effluent TPPH-gasoline (ppmv)

Effluent Benzene (ppmv)
Mass TPPH Removed (lbs)

Mass Benzene Removed (lbs)

| January | February | March | _ |
|---------|----------|-------|------------|
| 31 | 52 | NS |] |
| 0.40 | 0.69 | NS | 1 |
| ND | ND | NS |][|
| ND | ND | NS | Cumulative |
| 0.6 | 4.7 | N/A | 43.6 |
| 0.01 | 0.05 | N/A | 0.34 |

REMEDIAL ACTION PERFORMANCE EVALUATION

Migration Control

Due to the apparently low volume of residual hydrocarbons in the soil, it is unlikely that significant unsaturated zone migration is occurring. However, the vapor extraction system is effective in controlling migration in the unsaturated zone and in the saturated zone, to a degree.

Mass Removal

Mass removal rates decreased in January 1996 and increased slightly in February. Following system restart in April, mass removal may be expected to spike somewhat due to the

shutdown period.

Regulatory Compliance

During January and February 1996, the soil vapor extraction (SVE) system operated in compliance with all BAAQMD permit conditions. The SVE system was temporarily down during March, due to

high groundwater conditions and the inoperability of the groundwater treatment system.

ACTIONS/RECOMMENDATIONS

- Re-start the system following repair of bag filter housing closure.
- Continue to operate the soil vapor extraction system and optimize groundwater system to enhance soil vapor extraction performance.

NOTES:

ND = Not detected above detection limit

NS = Not sampled

sofm = Standard cubic feet per minute

ppmv = Parts per million by volume

lbs ≂Pounds

Note: When appropriate, tabulated data is followed by associated graphical presentation.

Table 1 Groundwater Extraction System Performance Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

| | | | | | TP | PH as Gaso | line | | Benzene | |
|----------|------------------|--------------|---------------|--------------|--|--------------|----------------|---------------|---------------|---------|
| | | | | Average | Influent | | | Influent | | |
| | | | Totalizer | Flow | Concen- | Removal | Removed | Concen- | Removal | Removed |
| Sample | Date | Temp | Reading | Rate | tration | Rate | To Date | tration | Rate | To Date |
| ID | Sampled | (deg F) | (gallons) | (gpm) | (µg/L) | (lbs/day) | (lbs) | (µg/L) | (lbs/day) | (lbs) |
| INFL | 10/18/95 a | MM | 76 | N/A | NS | N/A | 0.0 | NS | N/A | 0,00 |
| INFL | 10/30/95 | NM | 4,040 | 0.2 | 33,000 | 0.09 | 1.1 | 480 | 0.0013 | 0.02 |
| INFL | 11/30/95 | NM. | 7,751 | 0.1 | 15,000 | 0.02 | 1.8 | 190 | 0.0003 | 0,03 |
| INFL | 12/27/95 | 64,2 | 15,031 | 0.2 | 1,100 | 0.02 | 2.3 | 16 | 0.0002 | 0.03 |
| INFL | 01/22/96 b | 58.4 | 19,350 | 0.1 | NS | 0.00 | c 24 | NS | 0.0000 | c 0.03 |
| INFL | 02/13/96 d | 70.9 | 28,980 | 0.3 | 32,000 | 0.06 | 3.7 | 460 | 0.0009 | 0.05 |
| INFL | 03/11/96 e | N/A | 82,320 | 1.4 | NS | 0.27 | 11.0 | NS | 0.0039 | 0.16 |
| REPORT | ING PERIOD: | | | | | 12/27/9 | 6 - 03/11/96 | (b,d) | | |
| TOTAL | ALLONS EX | RACTED: | | | | | 82,244 | | | |
| PERIOD: | GALLONS EX | TRACTED | : | | | | 67,289 | | | |
| TOTALP | OUNDS TPP | I-GASOLIN | E REMOVE | D: | | | 11,0 | | | |
| TOTAL G | ALLONS TP | H-GASOL | NE REMOV | ED: | | | 1.8 | | | |
| TOTALP | OUNDS BENZ | ZENE REM | OVED: | | | | 0.16 | | | |
| TOTAL G | ALLONS BE | VZENE RE | MOVED: | | | | 0.02 | | | |
| PERIOD | POUNDS TPP | H-GASOLI | NE REMOV | ED: | | | 8.7 | | | |
| PERIOD | POUNDS BEN | ZENE REI | AOVED: | | | | 0.13 | | | |
| AVERAG | E FLOW RAT | E (gpm); | | | | | 0.6 | | | |
| TPPH | = Total purgea | ble petroleu | m hydrocarb | ons | a. GWE sy | stem startup | on October 1 | 8, 1995. | | |
| Temp : | = Temperature | ! | | | b. GWE sy | stem found | down 1/17/96; | ; pumps pulle | d for repair. | |
| deg F | = Degrees Fah | renheit | | | c, Samples | not taken; p | rior concentra | ations assume | ed. | |
| gpm : | = Gallons per r | ninute | | | d. GWE Pumps U-1 and U-3 re-installed 2/13/96. | | | | | |
| μg/L : | = Parts per bill | ion | | | e. Systems down; carbon changeout performed 3/25/96; further | | | | | |
| | = Pounds | | | | repair required to bag filter housing closure assembly. | | | | | |
| NM : | = Not measure | d | | | | • | - | | | |
| N/A : | = Not available | or not appli | icable | | | | | | | |
| | = Not sampled | | | ations) | | | | | | |
| Assumed | densities: TP | PH = 6.1 lb | s/gal; benzei | ne = 7.34 II | os/gal. Net h | ydrocarbon r | emoval data a | are approxima | ite. | |
| Mass rem | oved is an app | roximation | calculated us | sing averag | ed concentra | itions. | | | | |

Table 2 Groundwater Treatment System Analytical Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

| | | | | | | | ompliance Pa | rameters | |
|-------------------------------|---|--------------------------|--------------------------|-----------------------------|-------------------|---------------|---------------|---------------|--|
| Date Sampled | TPPH (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl- benzene (µg/L) | Xylenes (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | |
| Influent Sai | <u> </u> | (F3.4) | (M9/ L) | (Pg/L) | (µg/L) | (mg/L) | (mg/L) | (4,116) | |
| 10/30/95 11/30/95 | 33,000 15,000 | 480 190 | 1,400 310 | 900 210 | 7,100 3,700 | N/A N/A | N/A N/A | N/A N/A | |
| 12/27/95 02/13/9 6 | 1,100 | 16 4 60 | 23 1,100 | <2.0 1,500 | 300 7,700 | N/A N/A | n/a n/a | N/A N/A | |
| Effluent Sa | mples | | | | 1. | - | | | |
| 10/04/95 10/30/95 | ≠50 <50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | ≮20 NS | ≮1.0 NS | 8.89 a NS | |
| 11/ 30/9 5 12/27/95 | <50 <50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | <0.50 <0.50 | NS NS | NS NS | NS 7,05 a | |
| 02/13/96 | | <0.50 | <0.50 | <0.50 | <0.50 | <20 | 9.0 | 6.83 a | |
| TPPH COD TSS | Total purgeatChemical oxyTotal suspen | gen demand ded solids | nydrocarbo ns | \$ | | | | | |
| µg/L mg/L | = Micrograms p | r liter | | | | | | | |
| N/A NS | = Not sampled | | | | | | | | |
| < a. The pH≀ | Denotes any = reading was mea | • | | | | | nalysis. | | |

b. GWE system was found down 1/17/96 and two pumps were pulled for repair and replaced 2/13/96.

Table 3 Soil Vapor Extraction System Performance Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

| | | | | | TPP | <u>H as Gasol</u> | <u>ine</u> | | <u>Benzene</u> | |
|---|---|--|---|-----------|--------------|-------------------|--|------------------------|----------------|---------|
| | | Days | | | Influent | | | Influent | | |
| | | Opera- | Hourmeter | Flow | Concen- | Removal | Removed | Concen- | Removal | Remove |
| Sample | Date | tional | Reading | Rate | tration | Rate | To Date | tration | Rate | To Date |
| ID | Sampled | (t) | (hours) | (scfm) | (ppmv) | (lbs/day) | (lbs) | (ppmv) | (lbs/day) | (lbs) |
| INFL | 10/18/95 a | 0.0 | 0,00 | 40 | 87 | 1,33 | 0.0 | 0.95 | 0.012 | 0.00 |
| INFL | 10/19/95 | 0.2 | 5.50 | 40 | 149 | 2.26 | 0.4 | 2.4 | 0.030 | 0.00 |
| INFL | 10/20/95 | 1.2 | 33.95 | 55 | 45 | 094 | 2.3 | 0.49 | 0.008 | 0.03 |
| INFL | 11/30/95 | 37.2 | 927.30 | 40 | 38 | 0.58 | 30.5 | 0.24 | 0.003 | 0.24 |
| INFL | 12/27/95 | 27.1 | 1,576.71 | 34 | סא | 0.00 | 38,3 | 0.04 | 0,000 | 0.26 |
| INFL | 01/22/96 | 3.4 | 1,659.50 | 29 | 31 | 0.34 | 38.9 | 0.40 | 0.004 | 0.29 |
| INFL | 02/13/96 b | 6.7 | 1,820.86 | 54 | 52 | 1.07 | 43.6 | 0.69 | 0,012 | 0.34 |
| PERIOD TOTAL P TOTAL O TOTAL O TOTAL O PERIOD PERIOD PERIOD | DAYS OF OPER, DAYS OF OPER, DAYS OF OPER, DOUNDS TPPH, DOUNDS BENZE POUNDS TPPH, POUNDS BENZ AVERAGE FLO PERCENT OPER, DOUNDS TPPH, DOUNDS BENZ AVERAGE FLO PERCENT OPER, DOUNDS DENZ AVERAGE FLO PERCENT OPER. | ATION GASOLINE GASOLIN NE REMO ENE REM GASOLIN ENE REMI W RATE (| E REMOVED VED: OVED: E REMOVED: OVED: SCEN): | | | | 75.9 10.2 43.6 7.1 0.34 0.05 5.3 0.06 39 | | | |
| TPPH t scfm ppmv lbs | = Total purgeab = Time of period = Standard cubi = Parts per milli = Pounds density of gasolin | I since last c feet per r on by volun | sampling ninute ne | | b. SVE syste | em down du | on October 1 ring March 19 | 8, 1995 (carbo 996. | n) | |

sume density of gasoline = 6.1 lbs/gallon and density of benzene = 7.34 lbs/gallon.

Mass removed to date is calculated using averaged mass removal rates, which are based on instantaneous data.

Mass removal calculations use blower hourmeter readings to estimate run time.

Table 4 Soil Vapor Extraction System Emission Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

| | | _ | I | TPPH as Gasoline | | | Benzene | |
|--------|----------|--------|----------|------------------|-----------|----------|-------------|-----------|
| | | | Effluent | | | Effluent | | |
| | | Flow | Concen- | Destruction | Emission | Concen- | Destruction | Emission |
| Sample | Date | Rate | tration | Efficiency | Rate | tration | Efficiency | Rate |
| ID | Sampled | (scfm) | (ppmv) | (percent) | (lbs/day) | (ppmv) | (percent) | (lbs/day) |
| EFFL. | 10/18/95 | a 40 | ND | 97.3 | 0.04 | ND | 97.0 | 0.0004 |
| EFFL | 10/19/95 | 40 | NO | 98.4 | 0.04 | ND | 98.8 | 0.0004 |
| EFFL | 10/20/95 | 55 | ND | 94.7 | 0.05 | ND | 94.1 | 0.0005 |
| EFFL | 11/30/95 | 40 | DM | 93.8 | 0.04 | ND | 87.8 | 0.0004 |
| EFFL | 12/27/95 | 34 | ND | N/A | 0.03 | ND | 28.6 | 0.0003 |
| | | | | | | | | |

TPPH = Total purgeable petroleum hydrocarbons

scfm = Standard cubic feet per minute

ppmv = Parts per million by volume, converted from micrograms per liter

lbs = Pounds

ND = Not detected above detection limit N/A = Not available or not applicable

a. SVE system start-up on October 18, 1995 (carbon)

Emission calculations for non-detected concentrations are calculated using the detection limit.

Destruction efficiency [%] = [(1 - (effluent concentration/influent concentration) * 100)]

Figure 1
Groundwater Extraction System Mass Removal Trend

Unocal Service Station 5760 376 Lewelling Bourlvard at Usher Street San Lorenzo, California

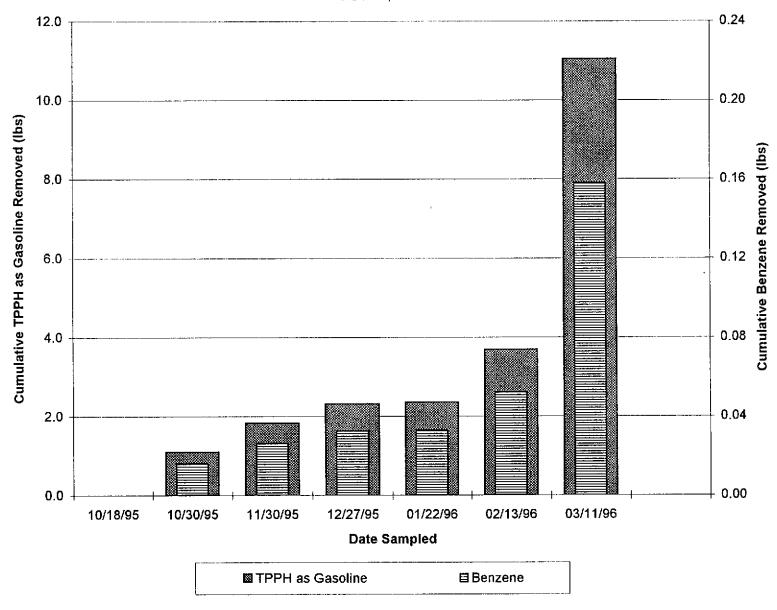


Figure 2
Groundwater Extraction System Hydrocarbon Concentrations

Unocal Service Station 5760 376 Lewelling Bourivard at Usher Street San Lorenzo, California

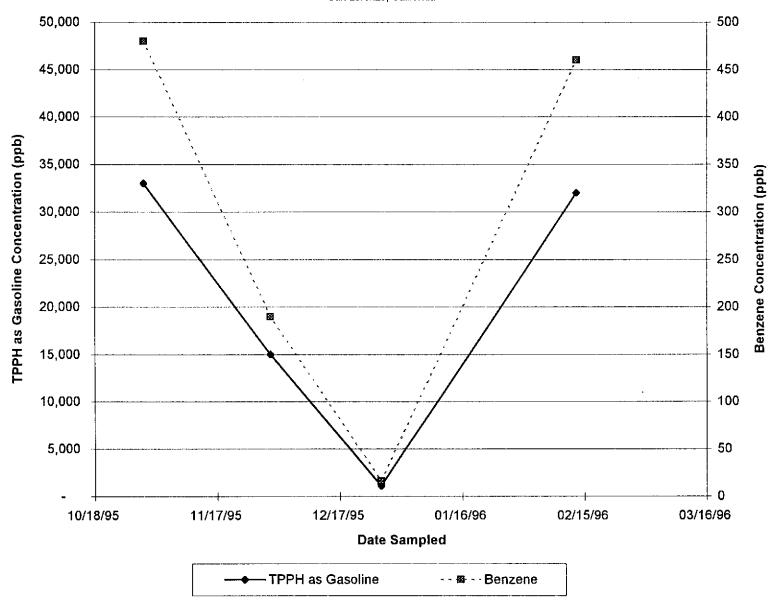


Figure 3
Soil Vapor Extraction System Mass Removal Trend

Unocal Bulk Terminal 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

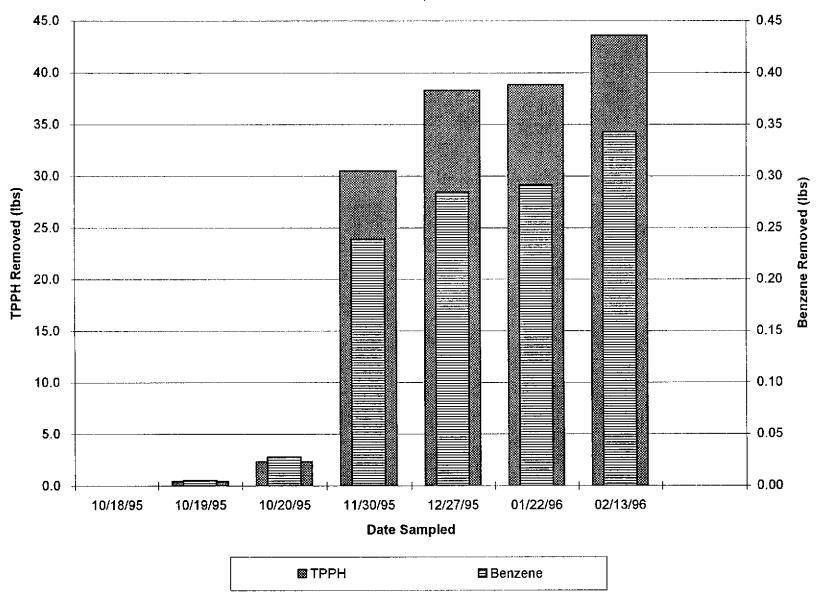
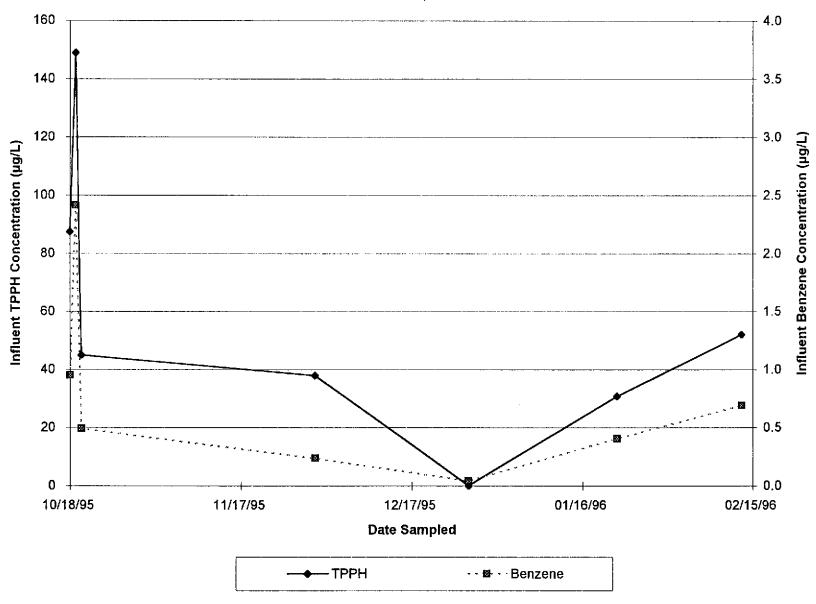


Figure 4
Soil Vapor Extraction System Hydrocarbon Concentrations

Unocal Bulk Terminal 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California



ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916)

FAX (415) 364-9233 FAX (510) 988-9673

PACIFIC ENVIRONMENTAL GROUP, INC.

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo Sample Descript: INFL

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9601D76-01

Sampled: 01/22/96 Received: 01/23/96

Analyzed: 01/24/96 Reported: 01/29/96

C Batch Number: GC012496BTEX17A

nstrument ID: GCHP17

Attention: Steve Clark

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

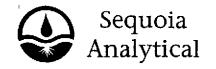
| Analyte | De | etection Limit ug/L | Sample Results ug/Ł |
|---|-------------------|------------------------|------------------------|
| TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: | | 0.25 0.25 0.25 | |
| Surrogates Trifluorotoluene | Co r 70 | ntrol Limits % 130 | % Recovery 81 |

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

SEQUOIA ANALYTICAL

ELAP #1210

rucie Fletcher 'roject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Project ID:

310-058.5A/5760, San Lorenzo

San Jose, CA 95110

Attention: Steve Clark

Work Order #:

9601D76

01

Reported:

Feb 1, 1996

QUALITY CONTROL DATA REPORT

| | | · | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|--|
| Analyte: | Benzene | Toluene | Ethyl | Xylenes | |
| | | | Benzene | | |
| | GC012496BTEX17A | GC012496BTEX17A | GC012496BTEX17A | GC012496BTEX17A | |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | |
| | | | | | |
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo | |
| MS/MSD #: | 960155902 | 960155902 | 960155902 | 960155902 | |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | |
| Prepared Date: | | 1/24/96 | 1/24/96 | 1/24/96 | |
| Analyzed Date: | 1/24/96 | 1/24/96 | 1/24/96 | 1/24/96 | |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 | |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 µg/L | |
| Result: | 10 | 9.1 | 8.6 | 28 | |
| MS % Recovery: | 100 | 91 | 86 | 93 | |
| Dup. Result: | 10 | 10 | 10 | 30 | |
| MSD % Recov.: | 100 | 100 | 100 | 100 | |
| RPD: | 0.0 | 0.4 | a.e. | •• | |
| RPD Limit: | 0.0 0-50 | 9.4 | 15 | 6.9 | |
| NED LIIII. | 0-50 | 0-50 | 0-50 | 0-50 | |
| | | | | | |
| LCS #: | BLK012496 | BLK012496 | BLK012496 | BLK012496 | |
| Prepared Date: | 1/24/96 | 1/24/96 | 1/24/96 | 1/24/96 | |
| Analyzed Date: | 1/24/96 | 1/24/96 | 1/24/96 | 1/24/96 | |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 | |
| Conc. Spiked: | 10 μg/L | 10 µg/L | 10 μ g/L | 30 μg/L | |
| LCS Result: | 10 | 10 | 10 | 31 | |
| LCS % Recov.: | 100 | 100 | 100 | 103 | |
| | .00 | ,,,, | 100 | 103 | |
| MS/MSD | | | | | |
| LCS | 71-133 | 72-128 | 72-130 | 71-120 | |

SEQUOIA ANALYTICAL

Brucie Fletcher Project Manager

Control Limits

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

9601D76.PPP <1>



UNOCAL 76

(2 880 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 © 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600

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

☐ 18939 120th Ave., N.E., Suite 101 • Botheli, WA 98011 • (206) 481-9200

© East 11115 Montgomery, Sulte B • Spokane, WA 99206 • (509) 924-9200

☐ 15055 S.W. Sequola Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

| Consultant Company: PAGE OMPANNIGHTAL GROUP | Project Name: 30-058, SA | 1 | | |
|---|---|-------------|--|--|
| Address 2025 GARGURY PL. STE 440 S | UNOCAL Project Manager: TINA PERRY | | | |
| City: SANCOSE State: CA Zip Code: 75110 | | 1 | | |
| Telephone: 700 441-7500 FAX #: 441-7539 | Site #, City, State: 5760 SANLORGOZO CA | Client | | |
| Report To: STEVE CLARK Samplers Syn Margon X | QC Data: Æ Level D (Standard) Level C Level B Level A | | | |
| Turnoround & to Wat Day Draw D | Drinking Water Analyses Requested | 틏 | | |
| Times DOW-st Day DAW LD DOGU | Waste Water | | | |
| CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure ☐ | Other (9601) | 76 | | |
| Client Date/Time Matrix # of Cont. Laborate Sample I.D. Sampled Desc. Cont. Type Sample | pry ANX / / / / / / / / | | | |
| 1. INR 12296/1445 AIR / BORAT OIA | | ratory | | |
| 2. | | orat | | |
| 3. | | 늍 | | |
| 4. | | ě | | |
| 5. | | Yellow | | |
| 6. | | 1 | | |
| 7. | | † | | |
| 8. | | 1 | | |
| 9. | | 1 | | |
| 10. | | atony | | |
| · | | 00ra | | |
| Relinquished By: Sweddox Date: 1.23.96 TimeO715 | Received By: Clorda Muguey Date: 1-23-96 Time: 7/5 | La | | |
| Relinquished By: Ronda Les Jung Date: 1-23-96 Time: 10:3 | 304 Received By: 8 Tae 12 Date: 1-23-96 Time: 10:30 A | White | | |
| Relinquished By: The Date: 1/23/96 Time: 12:3 | Received By Lab: 12 37 Date: 1237 | > | | |
| | ? 🗆 Yes 🕽 🌿 Method of Shipment Page 🗸 of 🛴 🖔 | ı 3 12 ā | | |
| To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? 2) Was the report issued within the requested turnaround time? Yes No If no, what analyses are still needed? | | | | |
| Approved by: Signature; | Mulet Tu Company: PACIFIC Date: | | | |
| <i>'</i> , ', ', ', ', ', ', ', ', ', ', ', ', ', | | i | | |



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: INFL

Matrix: AIR

Analysis Method: 8015Mod/8020 Lab Number: 9602883-01 Sampled: 02/13/96 Received: 02/14/96

Analyzed: 02/14/96 Reported: 02/16/96

Attention: Steve Clark

C Batch Number: GC021496BTEX17A

istrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | | ection Limit ug/L | Sample Results ug/L |
|--|----------------|------------------------------|------------------------|
| TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Gas & Unidentified HC | | 0.25 0.25 0.25 0.25 | |
| Surrogates Trifluorotoluene | Cont 70 | rol Limits % | % Recovery 184 Q |



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

EQUOIA ANALYTICAL - ELAP #1210

laudia Hirotsu

roject Manager

Page:

1



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 FAX (415) 364-9233 FAX (510) 988-9673

FEB 28 1996

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

Attention:

Steve Clark

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Lab Proj. ID: 9602A22

Sampled: 02/13/96 Received: 02/14/96

Analyzed: see below

Reported: 02/26/96

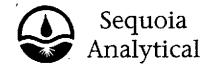
LABORATORY ANALYSIS

| Analyte | Units | Date Analyzed | Detection Limit | Sample Results |
|--|---------------------|-----------------------------|--------------------|--------------------|
| Lab No: 9602A22-02 Sample Desc : LIQUID,EFFL | | | | |
| Chemical Oxygen Demand Total Suspended Solids | mg/L mg/L | 02/20/96 02/16/96 | 20 1.0 | N.D. 9.0 |

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

EQUOIA ANALYTICAL - ELAP #1210

laudia Hirotsu roject Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo Sample Descript: INFL

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9602A22-01

Sampled: 02/13/96 Received: 02/14/96

Analyzed: 02/16/96 Reported: 02/26/96

C Batch Number: GC021696BTEX01A

nstrument ID: GCHP01

Attention: Steve Clark

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | De | tection Limit ug/L | | Sample Results ug/L |
|--|-------------------|-----------------------------------|----------|------------------------|
| TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: | | 10000 100 100 100 100 | | 460 1100 1500 |
| Surrogates Trifluorotoluene | Co r 70 | ntrol Limits % | % 130 | Recovery 100 |

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

SEQUOIA ANALYTICAL -

laudia Hirotsu roject Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

Client Proj. ID: 310-058.5A/5760,San Lorenzo Sampled: 02/13/96

3an Jose, CA 95110

Sample Descript: EFFL Matrix: LIQUID

Received: 02/14/96

Attention: Steve Clark

Analysis Method: 8015Mod/8020 Lab Number: 9602A22-02

Analyzed: 02/21/96 Reported: 02/26/96

C Batch Number: GC022196BTEX06A

strument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|------------------------------------|--------------------------------------|
| TPPH as Gas Benzene Coluene Ethyl Benzene (ylenes (Total) | 50 0.50 0.50 0.50 0.50 | N.D. N.D. N.D. N.D. N.D. |
| Surrogates Trifluorotoluene | Control Limits % 70 130 | % Recovery 82 |

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

EQUOIA ANALYTICAL ELAP #1210

audia Hirotsu oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Affection: Steve Clark

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Received: 02/14/96

Lab Proj. ID: 9602A22

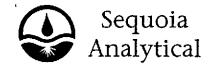
Reported: 02/26/96

LABORATORY NARRATIVE

MTBE was not detected above 40 ppb in these samples.

EQUOIA ANALYTICAL

audia Hirotsu oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Lorenzo

01

Matrix:

LIQUID

San Jose, CA 95110 Attention: Steve Clark

Work Order #:

9602A22

Reported:

Feb 27, 1996

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl | Xylenes |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| 1 | | roizono | Benzene | Ayunus |
| QC Batch#: | GC021696BTEX01A | GC021696BTEX01A | GC021696BTEX01A | GC021696BTEX01A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| | | | | 2.110000 |
| Analyst: | D. Jirsa | D. Jirsa | D. Jirsa | D. Jirsa |
| MS/MSD #: | 960261806 | 960261806 | 960261806 | 960261806 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 2/16/96 | 2/16/96 | 2/16/96 | 2/16/96 |
| Analyzed Date: | 2/16/96 | 2/16/96 | 2/16/96 | 2/16/96 |
| Instrument I.D.#: | GCHP1 | GCHP1 | GCHP1 | GCHP1 |
| Conc. Spiked: | 10 µg/L | 10 μg/L | 10 μg/L | 30 μg/L |
| Result: | 9.7 | 9.5 | 9.9 | 29 |
| MS % Recovery: | 97 | 95 | 99 | 97 |
| Dup. Result: | 10 | 10 | 11 | 31 |
| MSD % Recov.: | 100 | 100 | 110 | 103 |
| RPD: | 3.0 | 5.1 | 11 | 6.7 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |
| | | | | |
| | | | | |
| LCS #: | BLK021696 | BLK021696 | BLK021696 | BLK021696 |
| Prepared Date: | 2/16/96 | 2/16/96 | 2/16/96 | 2/16/96 |
| Analyzed Date: | 2/16/96 | 2/16/96 | 2/16/96 | 2/16/96 |
| Instrument I.D.#: | GCHP1 | GCHP1 | GCHP1 | GCHP1 |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 μg/L |
| LCS Result: | 9.4 | 9.4 | . 9.4 | 29 |
| LCS % Recov.: | 94 | 94 | 94 | 97 |
| | | | | |

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager

MS/MSD LCS

Control Limits

Please Note:

70-130

70-130

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.

70-130

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

70-130



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Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Lorenzo

02

Matrix:

LIQUID

San Jose, CA 95110 Attention: Steve Clark

Work Order #:

9602A22

Reported:

Feb 27, 1996

QUALITY CONTROL DATA REPORT

| | | | • | | |
|-------------------|-----------------|---|---|-----------------|----------|
| Analyte: | Benzene | Toluene | Ethyl | Xylenes | <u> </u> |
| | | | Benzene | | |
| | GC022196BTEX06A | GC022196BTEX06A | GC022196BTEX06A | GC022196BTEX06A | |
| Analy. Method: | | EPA 8020 | EPA 8020 | EPA 8020 | |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | |
| | | | | | |
| Analyst: | | M. Otte | M. Otte | M. Otte | |
| MS/MSD #: | | 9602B0712 | 9602B0712 | 9602B0712 | |
| Sample Conc.: | | N.D. | N,D. | N.D. | |
| Prepared Date: | , , | 2/21/96 | 2/21/96 | 2/21/96 | |
| Analyzed Date: | , , | 2/21/96 | 2/21/96 | 2/21/96 | |
| Instrument I.D.#: | GCHP6 | GCHP6 | GCHP6 | GCHP6 | |
| Conc. Spiked: | 10 µg/L | 10 μg/L | 10 μg/L | 30 μg/L | |
| Result: | 9.7 | 9.9 | 9.9 | 30 | |
| MS % Recovery: | 97 | 99 | 99 | 100 | • |
| _ | | | | | |
| Dup. Result: | 9.5 | 9.8 | 9.8 | 30 | |
| MSD % Recov.: | 95 | 98 | 98 | 100 | |
| | | | | | |
| RPD: | 2.1 | 1.0 | 1.0 | 0.0 | |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 | |
| | | (00000000000000000000000000000000000000 | *************************************** | | |
| | | | | | |
| LCS #: | BLK022196 | BLK022196 | BLK022196 | BLK022196 | |
| Prepared Date: | 2/21/96 | 2/21/96 | 2/21/96 | 2/21/96 | |
| Analyzed Date: | 2/21/96 | 2/21/96 | 2/21/96 | 2/21/96 | |
| Instrument I.D.#: | GCHP6 | GCHP6 | GCHP6 | GCHP6 | • |
| Conc. Spiked: | 10 µg/L | 10 μg/L | 10 μg/L | 30 μg/L | |
| LCS Result: | 10 | 4.5 | | | - |
| LCS % Recov.: | 10 | 10 | 10 | 31 | |
| LC3 % Necov.: | 100 | 100 | 100 | 103 | |
| He/Heb | | | | | · |
| MS/MSD LCS | 70.400 | | | | |
| Control Limits | 70-130 | 70-130 | 70-130 | 70-130 | |
| CORROL FIRMS | | | | | |

SEQUOIA ANALYTICAL

Claudia Hirotsu 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

9602A22.PPP <2>



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Client Project ID:

310-058.5A/5760, San Lorenzo

Matrix:

LIQUID

Attention: Steve Clark

Work Order #:

9602A22 02 Reported:

Feb 27, 1996

QUALITY CONTROL DATA REPORT

Analyte:

Total Suspended

Solids

Analy. Method: -

QC Batch: IN021696160200A

Prep Method:

EPA 160.2 N.A.

Analyst:

S. Chin

Duplicate

Sample #:

960299401

Prepared Date:

2/16/96

Analyzed Date:

2/16/96

Instrument I.D.#:

MANUAL

Sample

Concentration:

4.0

Dup. Sample

Concentration:

3.5

RPD:

13

RPD Limit:

0-30

SEQUOIA ANALYTICAL

Claudia Hirotsu Project Manager

** RPD=Relative % Difference

9602A22.PPP <3>



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

San Jose, CA 95110

Matrix:

310-058.5A/5760, San Lorenzo LIQUID

Attention: Steve Clark

Work Order #:

9602A22 02 Reported:

Feb 27, 1996:

QUALITY CONTROL DATA REPORT

Analyte: Chemical Oxygen

Demand

QC Batch#: IN022096410400A Analy. Method: EPA 410.4 Prep. Method: N.A.

Analyst:

D. Lawrence 9502A2202

MS/MSD #: Sample Conc.:

N.D.

Prepared Date: 2/20/96 Analyzed Date: 2/20/96 Instrument I.D.#: MANUAL 100 mg/L

Conc. Spiked:

Result:

MS % Recovery:

110 110

99

MSD % Recov.:

99

RPD:

Dup. Result:

9.5

RPD Limit:

0-30

LCS #:

LCS022096

Prepared Date: Analyzed Date:

2/20/96 2/20/96

instrument I.D.#:

MANUAL

Conc. Spiked:

100 mg/L

LCS Result: LCS % Recov.:

93 93

MS/MSD

LCS

70-130

Control Limits

SEQUOIA ANALYTICAI

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.

Claudia Hirotsu Project Manager

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

UNUCAL W

2 0 10 Chine 17 1701, Outlo 6 | Cacramerno, CA1 30004 * (310) 32 1-3000

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☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

☐ 15055 S.W. Sequola Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

| Consultant Company: PRIFIC GUIRMENTEL GRUP | Project Name: 30-6585A |
|--|--|
| Address: 2025 CARENAY PL STE FLYO | UNOCAL Project Manager: TWA BERRY |
| City: San José State: CA Zip Code: 95110 | AFE #: |
| Telephone: 408 441-7500 FAX #: 446-7539 | Site #, City, State: 5760 San Locarito Ca |
| Daniel T. VIKIG CLASIC | loop is the second seco |
| Turnaround Atto Work Dava El & West Dave Chave I | QC Date □ Level D (Standard) □ Level C □ Level B □ Level A rinking Water S Analyses Requested |
| Time: 2 Work Days 1 Work Day 2-8 Hours | |
| CODE: Misc. Detect. Eval. Remed. Demol. Closure | other GW 30 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Client Date/Time Matrix # of Cont. Laborator Sample I.D. Sampled Desc. Cont. Type Sample # | |
| 1. INFL 2.6.96/1825 WARR 3 VOA 01 A-C | Comments |
| 2. GCFC 1/1820 3 VOA 02 1 | A Spranger |
| 3. / / PL/MP D | +^ |
| 4. V / / PL/H2 SU E | |
| 5. | - X |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | £8 = [2 6 |
| | Received By: Rada Date: 2/14/Astime: 700 |
| Relinquished By: Date 2,1496 Time: 000 | Received By: Januar Willy Date: 2/14/90 Time: 700 |
| Relinquished By: Mude Way Date: 7/149 Time: 902 | Received By: Fullwhite Date:2/11/92 Time: 9:00 |
| Relinquished By: Talland Date: 2/14/76 Time: | Bacaivad Bullahi fra 2.14.96 1287 |
| Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? | Third. |
| To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? (9 Yes □ 2) Was the report issued within the requested turnaround time? (11 Yes □ No | No If an indicate the second s |
| Approved by:Signature Method // | |

ATTACHMENT C FIELD DATA SHEETS

Pink Copy - File

| SITE INFORMATION FORM | | | | |
|---|---|--|--|--|
| <u>Identification</u> | Project Type | | | |
| Project # 310 058 3/4 5/4 | 1st Time Visit | Client P.O.C.: | | |
| Station # _ 5760 | Quarterly | Date of Request | | |
| Site Address: Lineral | 1st 2nd 3rd 4th | Ideal field date(s): | | |
| 376 Lewelling Blid | Monthly | | | |
| San Lovenzos County: | Semi-Monthly | Check Appropriate Category | | |
| Project Manager: C. Yoyk | ☐ Weekly | Budget Hrs. | | |
| Requestor: 5.Clark | One time event | Actual Hrs. 25 | | |
| Client: Unocz | Other: | Mob de Mob | | |
| Field Tasks: For General Description circle one: Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available) Semi Monthly: Deta Collection / System Optimization: Fill aut effected date sheets; Optimize GWE/SVE Systems. Monthly: SVE:-FID readings from INFL, MID-1, FFFL for BARAMD compliance (Must do) - INFL AIV BAG Sample (to Sequelas And) for TPH-g, BTIX GWE:-TAKE TNFL & EFFL water Sample Stor leb analysis (Sequence) INFL-TPHg/BTEX, EFFL-TPHg/BTEX/SS/COD/pH - Perform regular Semi Monthly tasks listed above. | | | | |
| Request Revised 12/96 f | 27 SDC) | | | |
| Samples taken Samples not re | E EVIDENTLY CALIBRATED VAS THE CAUSE OF LACK OF I SET FOR 2 M WOUTE I | FOR 1/2 HP PUMPS, REENCISRAGE IF DRAW DOWN, PUMP CYCLES SECHORGE | | |
| PACIFIC ENVIRONMENTAL GROUP, II | Completed by: | | | |

Yellow Copy - O & M Tech

White Copy - Originator

Soil Vapor and Groundwater Extraction System Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California 310-058.5A

| Name: JoHo | MADDEX | Date/Time: 1.//.96 | 6/11/5 |
|---|--|---|---------------------------|
| | | | 7 |
| TREATMENT SYST | EM READINGS | , | |
| SVE Operational Upon Arrival? | No - K.O. FLOAT SWITCH STUCK, HIGH LEVEL | GWS Operational Upon Arrival? | P63 |
| Liquid Carbon #1 Pressure (psi) | 4psi/12psi | SVE Blower Hour Meter Reading | 01652.89 |
| Liquid Carbon #2 Pressure (psi) | 2psi/6psi | Total Vacuum from Wells (* of H20) | 63 1/20/50 1/40 |
| Electric Meter (kw-hrs) | 03918 Kulm | Manual Air Dilution Valve Position? | FULLY CLOSED |
| SVE Total Air Flow To Carbon (cfm) | 0.15 = 35 m/0.50" = 83 m | Post-Dilution SVE Air Flow To Carbon (cfm) | No DIFALION |
| GWS Totalizer (galions) | 2017,980 | Bag Filter Pressure (psi). Filt Changed? | IN=2245i /15 ps: |
| GWS Second Cont. Switch Operational? | YES | Was the Oil Changed This Month on Blower? | No-ok |
| SVE Influent FID Reading (ppm) | WC= 700pm WC= 750pm | SVE Effluent FID Reading (ppm) | WC=600 pp- WOC=525 pp- |
| | | GWS EFFL. Tamp | = 584°F |

- Pump 1 deans 3.57/3.63 mass - " 2 " 3.67/3.77 mms

- (BEFORE/AFBIR) ARMSTMENTS, FILTERCHANGE, ETC.

- SVE BLOWER PULLED BIG SLUGG OF WATER, THEN FLOWRATE WEREASED AS NOTED + VAR DECREASED. MORE SCREEN AVAILABLE WITH - ETAL FLOWRATE = 11.0 CIPM INCREASED DRAW.

| SITE INFORMATION FORM | | | | |
|--|--|----------------------------|--|--|
| <u>Identification</u> | Project Type | | | |
| Project # 310 058 27 5A | 1st Time Visit | Client P.O.C.: | | |
| Station # | Quarterly | Date of Request | | |
| Site Address: Unoce | 1st 2nd 3rd 4th | Ideal field date(s): | | |
| 376 Lewelling Blud San Lorenzo | Monthly | | | |
| County: | Semi-Monthly | Check Appropriate Category | | |
| Project Manager: C. York | ☐ Weekly | Budget Hrs. | | |
| Requestor: S.Clark | One time event | Actual Hrs. 40 | | |
| Client: Unocz | Other: | Mob de Mob 2.0 | | |
| Field Tasks: For General Descrictive one: Priority: 1. (emergency, must be done of Semi Monthly: Detz College Sheete; Q | within 24 hrs); 2. (next visit); 3. (v | | | |
| Monthly: SVE:-FID readings from INFL, MID-1, EFFL for BAAGMD compliance (must do) - INFL AIV BAG Sample (to Sequeiz And) for TPH-g, BTEX GWE:-TAKE TNFL & EFFL water samples For leb analysis (Segue INFL-TPH-/BTEX, EFFL-TPH-/BTEX/SS/COD/pH - Perform regular semimonthly tasks listed above | | | | |
| | | | | |
| Request Revised 12/96 to | 4 SNC) | | | |
| Comments, remarks, etc. from Field Staff (Include problems encountered and out-of-scope work) OULCD PUMPS PROM. U-I AND U-S 240 V MEASURED ACROSS PUMP LEADS NO AMPERAGE DRAW, PHONED STMLOM (PUMPSAUER) AND THEY ARREST THE PROBLEM WAS ATTHE JETSUB PUMPS ALSO RESET AT PUMPSAUER TO BYPASS JETSUB RESTART CIRCUIT - NO PUMPING - U-I L. PASS UFF TO FRUCE CARRYN PERR APPRAISAN. Samples taken Samples not required Soil Vapor Groundwater Weekly Semi-Monthly Monthly Quarterly Semi-Annual | | | | |
| PACIIFIC ENVIRONMENTAL GROUP, IN | Completed by: Unbow C. Checked by: | 127.96 Date: 1.27.96 | | |

| Name: CAWWA | X0X | Date/Time: 1.22.96 | | | | | |
|---|---|---|---|--|--|--|--|
| TREATMENT SYST | EM READINGS | | | | | | |
| SVE Operational Upon Arrival? | NO-HIGH LEVELINK, O PUMPEDOUT, RESTRET | GWS Operational Upon Arrival? | NO-HIGH PRESSURE ATT FILTER . CHANGE FRESTOR | | | | |
| Liquid Carbon #1 Pressure (psi) | See NOTE | SVE Blower Hour Meter Reading | 01659,50 | | | | |
| Liquid Carbon #2 Pressure (psi) | V | Total Vacuum from Wells (* of H20) | 721/40 | | | | |
| Electric Meter (kw-hrs) | 03949 Kuhs | Manual Air Dilution Valve Position? | FULLY CLOSED | | | | |
| SVE Total Air Flow To Carbon (cfm) | 0.10 = 29 - | Post-Dilution SVE Air Flow To Carbon (cfm) | NO DILUTION FLOW= 0.10 | | | | |
| GWS Totalizer (gallons) | 0a935° | Bag Filter Pressure (psi). Filt Changed? | 48 IN=8 psi out=8 psi | | | | |
| GWS Second Cont. Switch Operational? | 463 | Was the Oil Changed This Month on Blower? | NO-OK | | | | |
| SVE Influent しば FID Reading (ppm) | T=28pgm MID WE= 16 | SVE Effluent FID Reading (ppm) | WC= /Opm WOC= Mym | | | | |
| | | GWS EFFL Tomp | M | | | | |

UNOCAL 76

U 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 1 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600

our orientheting time treathous only on a root first our soon

U East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200 ☐ 15055 S.W. Segucia Pkwy. Suite 110 • Portland, OR, 97222 • (503) 624-9800

| | | | | | | | , | | | | | | -y, cano | 110 10 | oritario, C | 71 3722 | 2 (303) 024- | |
|--|--------------------------------------|-----------------|-----------------------|---------------|-------------------|-------------------|--|------------|---------|----------|----------|--|----------|----------|--------------|----------|----------------------|--------------|
| Consultant Company: | AGRC OM | Romma | JAC (| TROUP | | F | roject N | lame: | 30 |)-03 | 58. | STA | | | | | | |
| Address 2025 CA | HOWAY PL | . STE | 440 | S | | | Project Name: 30-058.5A UNOCAL Project Manager: TWA BCRRY | | | | | | | | | | | |
| City: SANJOSE | | | | Zip Code: | 7511 | 10 A | | | | | | | | _ | | | | |
| Telephone: 100 441-7500 FAX #: 441-7539 | | | | | | | | ity, St | ate: ر | 576 | 00 | SAM | عكد | rcew) | 70 < | Ā | | Client |
| Report To: STATE CLARK Sampler Sampler Sampler | | | | | | | | | | (Stand | | | | | evel B | ` | Level A | 4 ' |
| Turnaround 210 Work Days 15 Work Days 13 Work Days | | | | | | | nking W ste Wa | ater/ | | | | | | equeste | | | | Pizk ¥ |
| CODE: 🔾 Misc. 🗘 [| Detect. 🗖 Eval. | | d. 🚨 De | mol. 🗀 Cl | osure | ☐ Oth | ner | 18 | | | | | | | | | | |
| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type | | oratory nple # | | | | | | | | | | | Commen | |
| 1. INR | 1.2296/144 | AIR | / | TEDLA | • | | 0 | | | | | | | | | | | - Laboratory |
| 2. | | | | | | | ļ | | | | | | | | | | | abora |
| 3. | | | | | | | | | | | | | | <u> </u> | | | | |
| 4 | | | | | | | ļ <u>.</u> | | | <u> </u> | | | | ļ | <u> </u> | | | Yellow |
| 5. | | | | <u> </u> | | | | | 1 | | | ļ | | <u> </u> | <u> </u> | ļ | | ₹ |
| 6. | | | | <u> </u> | | | | | - | | | <u> </u> | | | ļ. — | | | |
| 8. | | | | | | | | <u> </u> | | | | _ | | | <u> </u> | | | |
| 9. | | | | | | | | | | <u> </u> | | <u> </u> | | ļ | | | | |
| 10. | | · · | - | | | | | <u>_</u> | | | | | | | | | | |
| | | | | | | | | | | · | | <u>. </u> | · | | <u>. L</u> | | | Laboratory |
| Relinquished By: | Swellex | | Date | 123.96 | Time C | 715 | Rece | ived E | Ву: | <u></u> | <u>.</u> | | D | ate: | | Time |): | |
| Relinquished By: 👤 | | | Date: | | Time: | | Rece | ived E | Ву: | | | | D | ate: | | Time |): | White |
| Relinquished By: | | | Date: | | Time: | | Rece | ived E | By Lab: | | | | | Date: | | Time | ,): | |
| Were Samples Receive | ed in Good Condit | ion? 🗅 Ye | es 🗀 No | Sa | mples c | on Ice? | 🗆 Yes | ≫ € | Meth | od of S | Shipme | ent | | | | Pa | ige \int of \neq | 7 |
| To be completed upon 1) Were the analy 2) Was ti port | | the Chair | n of Cus d turnare | tody repor | ted? ☐ ' ☐ Yes | Yes 🖸 | No If n | | | | | | | | | | | |
| Approved by: | pproved by: Signature:Company: Date: | | | | | | | | | | | | | | | | | |



FIELD SERVICES / O&M REQUEST

Work Order # 5279

| SITE INFORMATION FORM | | |
|--------------------------------|---|----------------------------|
| <u>Identification</u> | Project Type | |
| Project #310 -056.5A | 1st Time Visit | Client P.O.C.: |
| Station # | Quarterly | Date of Request |
| Site Address: | 1st 2nd 3rd 4th | Ideal field date(s): |
| LEWELLING BLVD Som Lorgedto | ☐ Monthly | |
| County: ALAMEDA | Semi-Monthly | Check Appropriate Category |
| Project Manager: | ☐ Weekly | Budget Hrs. |
| Requestor: ANDREW L | One time event | Actual Hrs. /5 |
| Client: | Other: | Mob de Mob |
| - Pump TEST ON | Within 24 hrs); 2. (next visit); 3. (w JETSUB (GRUND) 1/3 MP FERE SHUTTING OFF, E | Pumps DRAW 3. SAMB |
| | equired Soil Vapor Groundy Monthly Quarterly Semi- | vater |
| PACIIFIC ENVIRONMENTAL GROUP, | Completed by: | Manax Date: 2.1.96 |

| SITE INFORMATION FORM | | | | | | | |
|---|---|----------------------------|--|--|--|--|--|
| <u>Identification</u> | Project Type | | | | | | |
| Project # 310 058 27 5A | 1st Time Visit | Client P.O.C.: | | | | | |
| Station #5760 | Quarterly | Date of Request | | | | | |
| Site Address: Unocal | 1st 2nd 3rd 4th | Ideal field date(s): | | | | | |
| 376 Lewelling Blud San Lovenzo | Monthly | | | | | | |
| County: | Semi-Monthly | Check Appropriate Category | | | | | |
| Project Manager: C. Yovk | ☐ Weekly | Budget Hrs. | | | | | |
| Requestor: 5.Clark | One time event | Actual Hrs. 3.0 | | | | | |
| Client: (Insca) | Other: | Mob de Mob | | | | | |
| Field Tasks: For General Description circle one: Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available) Semi Manthly: Detz Collection / System Optimization: Fill out effected deta sheete; Optimize GWE/SVE Systems. Monthly: SVE:-FID readings from INFL MID-1, EFFL for BAHAMD Compliance (must do) - INFL AIV BAG Sample (to Sequoizabed) for TPH-9, BTEX GWE: = TAKE TNFL & EFFL water samples For leb analysis (Sequoi INFL-TPH9/BTEX) (EFFL-TPH9/BTEX) SS (COD) pH - Perform regular semimentally tasks listed above | | | | | | | |
| (Request Ravisad 12/96 | 64.SDC) | | | | | | |
| Comments, remarks, etc. from Field Staff (Include problems encountered and out-of-scope work) - Keinstructo VI and V3 Chromanator Pungs & Reptarted Systom. Restruct JVE As well - NVE Drower that Pulco much (W. without Benefit of GWE Draw Down Heavy SILT - NOTED INCREASE IN Pressure prop Across Back Filter During Stevisit. AFRE FILTER CHANGE [225: IN, 120: Out. ~ 2 Hours of Pumpus > 1605: IN, 1005: Out | | | | | | | |
| | required Soil Vapor Groundw Monthly Quarterly . Semi-A | | | | | | |
| PACIIFIC ENVIRONMENTAL GROUP | Completed by: Checked by: | 14plex Date: 2,13.86 | | | | | |

| TREATMENT SYST | EM READINGS | | |
|---|---|---|---|
| SVE Operational Upon Arrival? | NO-HIGH KO, FLORE LOASED, | GWS Operational Upon Arrival? | NO- REINSTALL PLANS |
| Liquid Carbon #1 Pressure (psi) | 10 ps; (APTER FILTER CHANGE, BETH PUMP) | SVE Blower Hour Meter Reading | 01820,86 HRS |
| Liquid Carbon #2 Pressure (psi) | Spsi 3 Way | Total Vacuum from Wells (* of H20) | 57"40 |
| Electric Meter (kw-hrs) | 04451 Kurks | Manual Air Dilution Valve Position? | FULYCLESCO |
| SVE Total Air Flow To Carbon (cfm) | 0.35"H20=54cm | Post-Dilution SVE Air Flow To Carbon (cfm) | Nopilition |
| GWS Totalizer (gallons) | 6028980 | Bag Filter Pressure (psi). Filt Changed? | 72 ps; in Opior PAREFICERCH. 125: IN/C |
| GWS Second Cont. Switch Operational? | 15 | Was the Oil Changed This Month on Blower? | No-0X |
| SVE Influent FID Reading (ppm) | WC= 40 ppm WC= 180 ym. | SVE Effluent FID Reading (ppm) | ac= 42pm W= 14 pm. |
| | | GWS EFFL. Tamp | 70.9°F |
| - | | CFF1 pH = | - 6.83 |

| UNOCAL | 76 |
|--------|----|
|--------|----|

| 680 Chesapeake Drive • Redwood City, | CA | 94063 • (415) 364-960 |
|--------------------------------------|----|-----------------------|
|--------------------------------------|----|-----------------------|

- ☐ 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- Q 1900 Bates Ave., Suite LM Concord, CA 94520 (510) 686-9600

2) Was the report Issued within the requested turnaround time? U Yes U No. If no, what was the turnaround time?

- U 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200
- Q 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

| Company Name: | Company Name: PACIFICEW WOMENTAL CROUP | | | | | | | | Project Name: 3(0-058.5A | | | | | | | \neg | | |
|--|--|-----------------|---------------|---------------|--------------|---------------|--|------------|---|--|--------------|----------------|--|----------------|--|---------------|---------------|----------------|
| Address: 2025 (| ATTEMPEPLS | 5724 | ło | | | | UNOCAL Project Manager: TIMA GERRY | | | | | | | \dashv | | | | |
| City: Shu Sas | É State: | \bigcirc A | | Zip Code | 9511 | | Release #: | | | | | | | | | | | |
| Telephone: 408 441-7500 FAX #: 441-7539 | | | | | | | | 57 | 60 | . Sa | <u>-~} /</u> | محوا | JZn | | | | <u> </u> | |
| Report To: STE | CLARK | Sample | r: < b | HNW | \Acre | | | | | 7 (01- | -d15 | | LO | | | | | |
| Report To: DICECLARK Sampler: DHUWADOX Turnaround 10 Work Days 5 Work Days 3 Work Days | | | | | | | inking V | | reveil | J (Stand | uara) | | | | Level I | 3 L | Level A | <u>:</u> اــــ |
| Time: □ 2 W | ork Days 🚨 1 V | Vork Day | 🛄 2-8 | 3 Hours | | | aste Wa | itar | /- | 7 | 7 | Anary | /ses H | equest | ted | / / | | - |
| CODE: Misc. | Detect. 🚨 Eval. | Reme | d. 🖵 De | emol. 🗖 C | losure | | her A 16 | | ST. | | | | | | | | | |
| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type | Labor Sam | | 1 | % > | 3// | // | // | // | // | // | // | | Comments | |
| 1. INPL | 2.1396/1816 | AIR | 1 | TEXAR | | <u>'</u> | X | | ĺ | | | $\overline{}$ | $\overline{}$ | \leftarrow | / | | Comments | |
| 2. | 7 | | | | | . | | <u> </u> | | | | ┼ | | - | | | · | |
| 3. | | | | | | | | | - | | <u> </u> | | | - | <u> </u> | | . | $-\frac{1}{2}$ |
| 4. | | | - | | <u> </u> | | + | | - | | | - | | <u> </u> | | _ | - | _ 1 |
| 5. | | | | | | | | - | . | | | | | - | ļ <u> </u> | | | |
| 6. | | | | | <u> </u> | | | - | | | - | | ├ — | | | ļ | <u> </u> | > |
| 7. | | | | | | | | | - | <u> </u> | | <u> </u> | - | ┼— | - | | | _ |
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| Relinquished By: | Ennelliex | | Date | 2.14.96 | Time 0 | 00 | Rece | ived E | By: | | | | D | ate: | | Time: | , | - aboratory |
| Relinquished By: | | | Date: | | Time: | | Rece | ived E | By: | | | | | ate: | | Time: | | White |
| Relinguished By: | ······································ | | Date: | | Time: | | | | By Lab: | | | | | Date: | | Time: | | 3 |
| Were Samples Receive | <u> </u> | | es 🔾 No | Sa | mples on | lce? | | | | | Shipme | ent | <u></u> | -u.u. | | | e Z of Z | |
| To be completed upon 1) Were the analy 2) Was the report | receipt of report: /ses requested on issued within the | the Chai | n of Cus | tody repor | ted? ⊔ Y | es 🗀 | No If no | o, wha | it analy | /ses aı | re still | neede | d? | | | | - - | 7 |

UNOCAL 76

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- ☐ 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600
- U 18939 120th Avo., N.E., Sulte 101 Bothell, WA 98011 (200) 481-9200
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200
- 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

| Consultant Company: TRIFIC GWIRMHUML GRUP | | | | | | | Project Name: 310-6585A | | | | | | | | | | | | |
|--|----------------------|-----------------|--------------------|---------------------------|--------------------------|-------------|------------------------------------|--|----------------------------------|-------------------|---------------------|----------------|-------|-----------|---------|------|----------|-----|---|
| Address: 2025 Cv | ARENAY P | ι Sτε | = 4 | 10 | | U | UNOCAL Project Manager: TINA BERRY | | | | | | | | | 1 | | | |
| City: San Jos | | CA | | Zip Code: | 95110 |) A | FE#: | - | | | | | | -3 | | | | | _ |
| Telephone: 408 4 | 41-7500 | F | | 446- | | \neg | te #, C | ity, St | ate: | 576 | 0 | Sau | J Los | ટલ્પ્ટ્રે | <u></u> | | | | Client |
| Report To: 576VC | CLARK | Sampler: | (bH | NM | 7000X | Q | C Date | Z O L | evel D | (Stand | | l Leve | | | evel B | | Level . | A | į į |
| Turnaround 2110 W | | | | | | | king W | | | | | Analys | | | | | | | ä |
| Time: 2 Wo | ork Days 🚨 1 V | Vork Day | 🛭 2-8 | Hours | | | ste Wa | ter / | | | ₹ 0 | | / | / | | | 7 | | |
| CODE: 🗆 Misc. 🗀 I | Detect. 🚨 Eval. | Remed. | . 🗅 De | mol. 🚨 Clo | osure 🗷 | -Oth | er GN | 164 | 1/20 | 7,0 | 59/ | | | | | | | | |
| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type | Lab or a Sampl | • | R | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | SKY W | J. O. | | | | | | | Comme | nts | |
| 1. INFL | 2.0.96/1825 | WARER | 3 | VOA | | · | X | | | | | | | | | | | | ξģ |
| 2. GCFL | 1/1820 | | 3 | VOA | | | X | | | | | | | | | | | | Yellow - Laboratory |
| 3. | | | 1 | F/NP | | | | X | | | | | | | | | | | 直 |
| 4. V | 1// | | 1 | P4/H2 Sa | ļ | | | X | | | | | | | | | | | š |
| 5. | | | | | | | | | | | | | | | | | | | , e ≺e |
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| 9. | . """ | | | | | • | | | | | | | | | | _ | | | 1. |
| 10. | | | | | | | | | | | | | | | | | | | - Laboratory |
| · | 10 | | | O 111 A | T | | · | | | | | | | | | | | | bor |
| Relinquished By: _ | Kundylox | <u> </u> | Date | 2.1496 | Time: O∤ | 90 | Rece | ived E | Ву: | | | · | D | ate: | | Time | | | ֡֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֟֓֓֓֓֟֟֓֓֓֓֟֟֓֓֓֓ |
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| Relinguished By: | | | Date: | | Time: | | Rece | ived E | By Lab | | | | | Date: | | Time | <u> </u> | | |
| Were Samples Receive | | | s 🖸 No | Sa | mples on l | lce? | ☐ Yes | □ No | Meth | od of S | Shipmo | ent | | | | Pa | ge 🗘 of | Ţ | • |
| To be completed upor 1) Were the analy 2) Was the report | yses requested or | n the Chair | of Cus I turnar | stody repor ound time? | ted? □ Ye | es⊡l Nol | Nolfn fno,w | o, wha hat wa | it anal _! is the t | yses a lurnard | re still ound ti | neede me? _ | d? | | | | | | |

| SITE INFORMATION FORM | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|
| <u>Identification</u> | Project Type | | | | | | | | |
| Project # 310 058 34 5A | 1st Time Visit | Client P.O.C.: | | | | | | | |
| Station # _ 5760 | Quarterly | Date of Request | | | | | | | |
| Site Address: Unoce | 1st 2nd 1 3rd 4th | Ideal field date(s): | | | | | | | |
| 376 Lewelling Blud Santorenzo | Monthly | | | | | | | | |
| County: | Semi-Monthly | Check Appropriate Category | | | | | | | |
| Project Manager: C. York | ☐ Weekly | Budget Hrs. | | | | | | | |
| Requestor: 5.Clzvk | One time event | Actual Hrs. 2.5 | | | | | | | |
| Client: Unocz | Other: | Mob de Mob 2.0 | | | | | | | |
| Field Tasks: For General Description circle one: Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available) | | | | | | | | | |
| Semi Monthly: Date Collection / System Optimization: Fillant affected date Sheete; Optimize GWE/SVE Systems. | | | | | | | | | |
| - I Gwe:-T | Monthly: SVE:-FID readings from INF(, MID-1, EFFL for BARAMD compliance (must do) - INFL AIV BAG Sample (to Sequeiz And) for TPH-g, BTDX. GWE:-TAKE INFL & EFFL water samples For lab analysis (Seque INFL-TPH-/BTEX, EFFL-TPH-/BTEX/SS/COD/pH - Perform regular semimentally tasks tisted above | | | | | | | | |
| (Request Raised 12/96 - | 64 SDC) | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Comments, remarks, etc. from Field S GW FILTER LOADS UP CHANGED FILTER T AN HOUR OF CHANGE FILTER, AND INST | Staff (Include problems encountered QUICKLY SET HIGH PRESSUR WICE - INFL P WENT FROM - OTE SVE K | ESWIRH FOR POPS, SHUTPIF 1475; TO POPS, WITHIN O PUMP LINE TO SECOND PARALLEL TO THE FIRST. | | | | | | | |
| PACIIFIC ENVIRONMENTAL GROUP, | | | | | | | | | |

| Name: | Marie | Date/Time: <u>227</u> . | 96/0740 |
|---|-------------------|---|---|
| TREATMENT SYST | EM READINGS | | |
| SVE Operational Upon Arrival? | LOADED/HIGHK | GWS Operational Upon Arrival? | NO |
| Liquid Carbon #1 Pressure (psi) | <201/12ps; | SVE Blower Hour Meter Reading | 01826.38 |
| Liquid Carbon #2 Pressure (psi) | <2ps:/Hps; | Total Vacuum from Wells (* of H20) | 44/60 |
| Electric Meter (kw-hrs) | CH632 Kuls | Manual Air Dilution Valve Position? | FULLY CLOSED |
| SVE Total Air Flow To Carbon (cfm) | 0,50" | Post-Dilution SVE Air Flow To Carbon (cfm) | No DI LOTION |
| GWS Totalizer (gallons) | 0046170 | Bag Filter Pressure (psi). Filt Changed? | 90ps: IN /14ps: IN <2ps: OUT /14ps: OUT |
| GWS Second Cont. Switch Operational? | Y63 ' | Was the Oil Changed This Month on Blower? | No-ok |
| SVE Influent FID Reading (ppm) | 175/350 wc wac | SVE Effluent FID Reading (ppm) | 240/340 We were |
| MID = 250 Fig wo | pm/330em 402 | GWS EFFL. Tamp | 61.64 |

PROBURE VALUES
ARE BEFORE AFTER FILTER CHANGE

FIELD SERVICES / O&M REQUEST

Work Order # 5402

| SITE INFORMATION FORM | | | | | | | | |
|---|--|----------------------------|--|--|--|--|--|--|
| Identification | Project Type | | | | | | | |
| Project # 310-058, 5A | 1st Time Visit | Client P.O.C.: | | | | | | |
| Station # 5 160 | Quarterly | Date of Request | | | | | | |
| Site Address: UNDIAL STOLEULING | ☐ 1st ☐ 2nd ☐ 3rd ☐ 4th | Ideal field date(s): | | | | | | |
| SANLERGNZO | ☐ Monthly | | | | | | | |
| County: ALAMEDA | Semi-Monthly | Check Appropriate Category | | | | | | |
| Project Manager: | Weekly | Budget Hrs. | | | | | | |
| Requestor: STEVE CLARK | One time event | Actual Hrs. 2.0 | | | | | | |
| Client: UNDXAL | Other: | Mob de Mob | | | | | | |
| Field Tasks: For General Description circle one: Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available) | | | | | | | | |
| -ONSTEFOR SHEDLED DEM VISIT. GWE AND SVE DOWN DUE TO LEAKING FIRST CARBON DRUM AND HIGHLEVEL IN SECONDARY CONTAINMENT. CARBON LID & BOWEDOUT INKEDS REPLACEMENT, VENDOR; CETCO ADLATER 1-800-256-8466 THIS IS A 55 CAL DRUM WITH I'P INLET IN CENTER OF LID | | | | | | | | |
| | 01912,66 = 05167 KWhs = 0082,320 GAL | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Comments, remarks, etc. from Field | Staff (include problems encountered | and out-of-scope work) | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Samples taken Samples not to Weekly Semi-Monthly | Monthly Quarterly Quarterly Semi-, | Annual | | | | | | |
| PACIIFIC ENVIRONMENTAL GROUP | | MAPDOX Date: 3, 11. % | | | | | | |

| SITE INFORMATION FORM | | | | | |
|--|--|-------------------------------------|--|--|--|
| Identification | Project Type | | | | |
| Project # 310 058 37 5A | 1st Time Visit | Client P.O.C.: | | | |
| Station #5760 | Quarterly | Date of Request | | | |
| Site Address: Unocel | 1st 2nd 3rd 4th | Ideal field date(s): | | | |
| 376 Lewelling Blud San Lorenzo | Monthly | | | | |
| County: | Semi-Monthly OFFICED | Check Appropriate Category | | | |
| Project Manager: C. York | Weekly 10:00 | Budget Hrs | | | |
| Requestor: 5.Clark/ANDREWL. | One time event 72:00 | Actual Hrs. 2.5 | | | |
| Client: Unocz | Other: | Mob de Mob | | | |
| Field Tasks: For General Description circle one: Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available) Semi Monthly: Deta Collection / System Optimization: Fill out effected deta sheete; Optimize GWE/SVE Systems. Monthly: SVE:-FID readings from INFL, MID-1, EFFL for BAHAMD compliance (must do) - INFL AIV BAG Sample (to Sequoia feet) for TPH-g, BTEX. GWE:-TAKE TNFL & EFFL water samples For lab analysis (Sequoia Inc.) INFL-TPHy/BTEX, EFFL-TPHy/BTEX/SS/COD/pH - Perform regular semimentally tasks listed above. | | | | | |
| (Request Revised 12/96 by SDC) | | | | | |
| Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work) | | | | | |
| K MEED (0 MODIF Gloren in Diums) T | HOUGH STEM | SFER STOLLHOLLS PEX: Lina BETTY) | | | |
| | | | | | |
| Samples taken Samples not rec | Soil Vapor Groundw Monthly Quarterly Semi-A | | | | |
| PACIIFIC ENVIRONMENTAL GROUP, IN | Completed by: | Date: <u>3/25/9</u> (| | | |

| | M_{\odot} | ρ_{\downarrow} | | 3/20 | -196 | |
|--------|-------------|---------------------|--------------|------|------|--|
| Name:_ | | 7 | _ Date/Time: | 0/00 | | |
| | · " | | | | , | |

| Name: | / | Date/Time: | |
|---|--------------|---|-------|
| TREATMENT SYST | EM READINGS | | , , |
| SVE Operational Upon Arrival? | NO | GWS Operational Upon Arrival? | NO. |
| Liquid Carbon #1 Pressure (psi) | 5 | SVE Blower Hour Meter Reading | 01912 |
| Liquid Carbon #2 Pressure (psi) | 4 | Total Vacuum from Wells (* of H20) | |
| Electric Meter (kw-hrs) | 05168 | Manual Air Dilution Valve Position? | |
| SVE Total Air Flow To Carbon (cfm) | | Post-Dilution SVE Air Flow To Carbon (cfm) | |
| GWS Totalizer (gallons) | 0082600 | Bag Filter Pressure (psi). Filt Changed? | 30/7 |
| GWS Second Cont. Switch Operational? | YES | Was the Oil Changed This Month on Blower? | |
| SVE Influent FID Reading (ppm) | | SVE Effluent FID Reading (ppm) | |
| | | GWS EFFL. Temp | |

Completed Carbon ChanGe out @ 11:00, Had problems with nut / Bolt assembly on Bag Filter LiD, nut was Frozen up on Bolt, as a result of that it Broke. Statem Cannot BE operated until

Page 1
ROSEDALE MODEL # 8-30-2P-1-100-5-B-5-B