CAMBRIA



DPE system intrated/GN expraction blower faulty.

MAR 2 2 2007

Mr. Barney Chan ACHCSA 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Remediation System Progress Report - Fourth Quarter 2000

Golden Empire Properties - Worthington 3055 35th Street Oakland, California Plant No. 12241, Permit No. 27721



Dear Mr. Cave:

On behalf of Mr. Lynn Worthington, Cambria Environmental Technology, Inc. (Cambria), is submitting this remediation system progress report for the remediation system located at the above referenced site. Described below is the system design, system operation and performance during the fourth quarter 2000, and anticipated second quarter activities.

#### SYSTEM DESIGN

In late 1999, Cambria supervised the installation of a dual-phase extraction (DPE) remediation system. The DPE system consists of a skid mounted all-electric catalytic oxidizer, a 200 cfm positivedisplacement blower, a 150-gallon moisture knockout with automatic float controls, a 1 hp centrifugal transfer pump, and two 1,000 pound carbon vessels connected in series.

Ten wells are connected to the remediation system (RW-5 through RW-14). See Figure 1 for the location of remediation enclosure and wells.

Oakland, CA San Ramon, CA

Sonoma, CA

Portland, OR

SYSTEM OPERATION AND PERFORMANCE

From May 24 through June 1, 2000, Cambria began startup of the soil vapor extraction portion of the remediation system. See Cambria's System Startup Report dated October 17, 2000 for details.

Cambria Environmental Technology, Inc.

1144 65th Street Suite B Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

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Remediation System Progress Report Fourth Quarter 2000 Golden Empire Properties (Worthington) March 7, 2001

### Soil Vapor Extraction

During the fourth quarter, Cambria operated the soil vapor extraction portion of the remediation system. The system operated almost continuously from October though mid November but operated intermittently for the remainder of the quarter due to blower motor problems. On October 12 and November 9, 2000, system influent and effluent vapor samples were collected and submitted for laboratory analysis. Influent TPHg vapor concentrations ranged from 360 to 590 parts per million by volume (ppmv). Effluent vapor concentrations were below laboratory detection limits and within Bay Area Air Quality Management District (BAAQMD) destruction efficiency permit requirements. System influent and effluent vapor concentration data are summarized in Table 1. Laboratory analytical reports are included in Appendix A.



As per the BAAQMD permit, a catalytic oxidizer operating temperature of greater than 600 degrees Fahrenheit was maintained and system operation parameters were continuously measured using a chart recorder. During site visits, system operation parameters were also recorded in specialized field forms for future system optimization and agency inspection. System operations data is summarized in Table 1.

### **Groundwater Extraction**

During the fourth quarter, Cambria began startup of the groundwater extraction portion of the remediation system. On October 20, 30, and November 9, 2001, system influent, mid, and effluent water samples were collected and submitted for laboratory analysis to McCampbell Analytical of Pacheco, California (See Table 2). Effluent groundwater samples were below laboratory detection limits of 0.5 ug/L, indicating that the groundwater treatment system is working effectively to treat the hydrocarbon-impacted groundwater. Effluent groundwater concentrations were also below the East Bay Municipal Utility District (EBMUD) sewer discharge permit limits. System performance and influent and effluent groundwater concentration data are summarized in Table 2. Laboratory analytical reports are included in Appendix A. On December 15, 2000, a malfunctioning groundwater flow totalizer was replaced. The system did not operate during December due to a faulty system blower motor.

### **Hydrocarbon Removal/Destruction**

As of the fourth quarter 2000, a total of 499.20 pounds of hydrocarbons have been removed and/or destroyed from the subsurface. Soil vapor extraction has destroyed 499 pounds of hydrocarbons and groundwater extraction has removed 0.20 pounds of hydrocarbons.

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Remediation System Progress Report Fourth Quarter 2000 Golden Empire Properties (Worthington) March 7, 2001

### **ANTICIPATED SECOND QUARTER ACTIVITIES**

In March, Cambria is planning to remove the current catalytic oxidizer/blower system and replace it with a newer and more reliable SVE rental system from another equipment vendor. System vapor samples will be collected on a monthly basis and system groundwater samples will be collected on a quarterly basis. System performance will be evaluated and submitted to the BAAQMD on a quarterly basis, and records will kept for a period of two years for possible future BAAQMD inspection.



### CLOSING

Please contact Ron Scheele at (510) 450-1985, if you have any questions regarding this report.

Sincerely,

Cambria Environmental Technology, Inc.

Jason Olson

Senior Staff Environmental Scientist

Ron Scheele RG Senior Geologist

Figure 1

Remediation System Layout

Table 1

DPE System Performance and Analytical Results – Soil Vapor Extraction

No. 6842

Table 2

DPE System Performance and Analytical Results – Groundwater Extraction

Attachments:

A - Analytical Laboratory Reports

Mr. Robert Cave, BAAQMD Permit Services Division, 939 Ellis Street, San Francisco, California 94109
 Mr. Lynn Worthington, Golden Empire Properties, Inc., 5942 MacArthur Blvd., Suite B, Oakland, CA 94605

H:\Sb-2004 (UST Fund)\Oakl-002 - Lynn\O&M\VES startup.wpd

### **Former Exxon Station**

3055 35th Avenue Oakland, California



**Remediation System Layout** 

CAMBRIA

Table 1. DPE System Performance and Analytical Results - Soil Vapor Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, California

| Date     | Hour Meter<br>Readings<br>(hrs) |     | Total Well Flow Rate (prior to dilution) | Total Well<br>HC Conc.<br>(ppmv) | System Inlet Temp. | System Flow Rate (after dilution) |      | HC C | Effluent<br>Conc. <sup>2</sup><br>omv)<br>Benz | HC<br>Removal Rate <sup>3</sup><br>(lbs/day) | Emis<br>Ra<br>(lbs/c | ite   | TPHg Destruction Efficiency (%) | Gasoline<br>Cumulative<br>Removal<br>(lbs) |
|----------|---------------------------------|-----|--|----------------------------------|--------------------|-----------------------------------|------|------|--|--|----------------------|-------|---------------------------------|--|
|          | <u> </u>                        | (%) | (scfm)                                   |                                  | (degree F)         | (scfm)                            | TPHg | TPHg | DÇIIZ  | TPHg   | Irng                 | Denz  | (70)                            | (103)                                      |
| 6/24/00  | 0                               |     |  |                                  |                    |                                   |      |      |  |  |                      |       | ~-                              | 0  |
| 9/28/00  | Crist rd<br>454                 | 20% | 175                                      | 420                              | 789                | 175                               | 420  | 22   | 0.24   | 23.6   | 1.24                 | 0.012 | 95                              | 0  |
| 10/12/00 | 696                             | 72% | 88                                       | 360                              | 950                | 88                                | 360  | <10  | <0.15  | 10.1   | 0.28                 | 0.004 | *                               | 2.28                                       |
| 11/9/00  | 1251                            | 83% | 55                                       | 590                              | 820                | 55                                | 590  | <10  | <0.15  | 10.5   | 0.18                 | 0.002 | *                               | 472<br><b>4</b> 621                        |
| 1/23/01  | 1313                            | 3%  |  |                                  |                    |                                   |      |      |  |  |                      |       | *                               | 499) 3                                     |

#### Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC Conc. = Hydrocarbon Concentrations

ppmv = Parts per million by volume. Analytical lab results converted from micrograms per liter (ug/l) to ppmv assumes the molecular weight of gasoline to be equal to that of hexane. at 1 atmosphere of pressure and 20 degrees Celsius. 696 228 555 × 10,15 234 24 462 V

<sup>&</sup>lt;sup>1</sup> TPHg and benzene concentrations based on lab results by Modified EPA Methods 8015 and 8020.

<sup>&</sup>lt;sup>2</sup> The hydrocarbon removal/emission rate is based on the Bay Area Air Quality Management's District's (BAAQMD) Procedures for Soil Vapor Extraction where Rate = concentration (ppmv) x flow rate (scfm) x 1 lb-mole/386x10<sup>6</sup>ft<sup>3</sup> x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day.

<sup>&</sup>lt;sup>3</sup> Gasoline Removal = The previous removal rates multiplied by the interval days of operation plus the previous total removal amount. The total TPHg removal is based on lab analytical results.

<sup>\*</sup> As per BAAQMD permit conditions, system destruction efficiency need not be calculated for effluent TPHg concentrations less than 10 ppmv

| l | Table 2. D | PE System  | Performanc  | e and Anal | ytical Res | ults - Gro | undwater    | Extraction - | Golden Er | npire Properti | ies (Worthingt | on), |
|---|------------|------------|-------------|------------|------------|------------|-------------|--------------|-----------|----------------|----------------|------|
| l |            |            |             |            |            |            | - · · · · - |              | 3055 35th | Street, Oakla  | nd, California |      |
| į |            | Hour Meter | Water Meter | Total      | System     | Sample     | ТРНо        | Renzene      | Toluene   | Ethylhenzene   | Total Xvienes  | HC   |

|          | Hour Meter | Water Meter | Total       | System     | Sample     | TPHg                   | Benzene | Toluene | Ethylbenzene | Total Xylenes | HCs        | Total   |
|----------|------------|-------------|-------------|------------|------------|------------------------|---------|---------|--------------|---------------|------------|---------|
| Date     | Readings   | Readings    | Groundwater | Flow Rate  | ID         |                        |         |         |              |               | Removed    | HCs     |
|          |            |             | Extracted   |            |            |                        |         |         |              |               | Per Period | Removed |
|          | (hrs)      | (gallons)   | (gallons)   | (gpm)      |            | (ug/L)                 | (ug/L)  | (ug/L)  | (ug/L)       | (ug/L)        | (lbs)      | (lbs)   |
|          |            |             |             |            |            |                        |         |         |              |               |            |         |
| 10/20/00 | 878        | 0           | 0           | 0          | Inf        |                        | <0.5    | <0.5    | <0.5         | <0.5          |            |         |
|          | ]          |             |             |            | Eff        |                        | <0.5    | <0.5    | <0.5         | <0.5          |            |         |
| 10/30/00 | 1004       | 0           | 50          |            | Inf        |                        | 170     | 140     | 16           | 200           |            |         |
| 10/30/00 | ]          | Ü           | 20          |            | Eff        |                        | <0.5    | < 0.5   | <0.5         | <0.5          |            |         |
| :        |            |             |             |            |            | 3                      |         |         |              |               |            |         |
| 11/9/00  | 1,251      | 0           | 50          |            | Inf (      | 760                    | 120     | 86      | 4.2          | 84            | NC         | NC      |
|          |            |             |             |            | Eff        | <50                    | <0.5    | <0.5    | <0.5         | <0.5          |            |         |
| 12/15/00 | 1,267      | 760a        | 50          |            |            |                        |         |         |              |               |            |         |
|          |            |             |             |            |            |                        |         |         |              |               |            |         |
| 1/31/01  | 1,313      | 3,790       | 3,080       | 1.1        |            |                        |         |         |              |               | 0.019      | 0.019 🔽 |
|          |            |             |             | Sewer Effl | uent Disch | arge Limits:<br>(ug/L) | 5.0     | 5.0     | 5.0          | 5.0           |            |         |

Notes:

& very little water remarked @

& v. Las Concentration

TPHg = Total Petroleum Hydrocarbons as Gasoline

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE = Methyl tert-butyl ether

ug/l = micrograms per liter

a = Malfunctioning totalizer replaced 12/15/00 (intial reading at 760 gallons)

ND = non detect

<n = below noted practical laboratory quantitation limits

Inf = Influent Sample

Eff = Effluent Sample

NC = Not calculated, insufficient data

3080 gal x 3.8 £ 7.6 x 10 x 10 x 10 8 x 10 4 10 8 x 454 lb

3.08 x 0 x 3.8 x 7.6 x 0 x 10 x 10 x 10 = 0.0196 v 165

# ATTACHMENT A

Analytical Laboratory Reports

| Cambria Environmental Technology      | Client Project ID: #130-0105-336; | Date Sampled: 10/12/00   |
|---------------------------------------|-----------------------------------|--------------------------|
| 1144 65 <sup>th</sup> Street, Suite C | Worthington                       | Date Received: 10/13/00  |
| Oakland, CA 94608                     | Client Contact: Ron Scheele       | Date Extracted: 10/13/00 |
|                                       | Client P.O:                       | Date Analyzed: 10/13/00  |

10/20/00

#### Dear Ron:

#### Enclosed are:

- 1). the results of 2 samples from your #130-0105-336; Worthington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton Lab Director



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
<a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: main@mccampbell.com

Cambria Environmental Technology
1144 65th Street, Suite C
Oakland, CA 94608

Client Project ID: #130-0105-336;
Worthington

Date Sampled: 10/12/00

Date Received: 10/13/00

Client Contact: Ron Scheele
Date Extracted: 10/13-10/14/00

Client P.O:
Date Analyzed: 10/13-10/14/00

| PA metho<br>Lab ID | ds 5030, modified                   | Matrix      | TPH(g) <sup>+</sup> | MTBE        | Benzene       | Toluene      | Ethylben-<br>zene | Xylenes         | % Recovery<br>Surrogate |
|--------------------|-------------------------------------|-------------|---------------------|-------------|---------------|--------------|-------------------|-----------------|-------------------------|
| 50340              | IN                                  | Air         | 360,c,a             | ND<10       | 10            | 6.3          | 0.64              | 3.6             | #                       |
| 50341              | EF                                  | Air         | ND                  | ND          | ND            | 0.19         | ND                | 0.32            | 100                     |
|                    |                                     |             |                     |             |               |              |                   |                 |                         |
|                    |                                     | -           |                     |             |               |              |                   |                 |                         |
|                    |                                     |             |                     |             | -             | <u> </u>     |                   |                 |                         |
|                    |                                     |             |                     |             |               |              |                   |                 |                         |
| *1                 | ppm (mg/L) to ppr                   | nv (uL/L) c | onversion for TP    | H(g) assume | s the molecul | ar weight of | gasoline to be e  | equal to that o | of hexane.              |
|                    |                                     |             |                     |             |               |              |                   | _               |                         |
|                    |                                     |             |                     | _           |               |              |                   |                 |                         |
|                    |                                     |             |                     |             |               |              |                   |                 |                         |
| <u> </u>           |                                     |             |                     |             |               |              |                   |                 |                         |
| Report             | ing Limit unless<br>vise stated; ND | Air         | 10 uL/L             | 1.5         | 0.15          | 0.15         | 0.15              | 0.25            |                         |
| means n            | ot detected above eporting limit    | s           | 1.0 mg/kg           | 0.05        | 0.005         | 0.005        | 0.005             | 0.005           |                         |

<sup>\*</sup> water and vapor samples are reported in uL/L(ppmv), wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



<sup>\*</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

http://www.mccampbell.com E-mail: main@mccampbell.com

# **QC REPORT**

# Hydrocarbons Analysis

Date:

10/13/00

Matrix:

Water/Air

Extraction: N/A

|                 | Cor         | ncentration: | ug/L             | %Rec     | overy | :   |
|-----------------|-------------|--------------|------------------|----------|-------|-----|
| Compound        | Sample M    | S MSD        | Amount<br>Spiked | MS       | MSD   | RPD |
| SampleID: 47830 |             |              | Instru           | ument: G | C-12  |     |
| Surrogate1      | 0.000 96    | .0 94.0      | 100.00           | 96       | 94    | 2.1 |
| Xylenes         | 0.000 31    | 4.0 304.0    | 300.00           | 105      | 101   | 3.2 |
| Ethyl Benzene   | 0.000 : 10- | 1.0 102.0    | 100.00           | 104      | 102   | 1.9 |
| Toluene         | 0.000 10    | 1.0 98.0     | 100.00           | 101      | 98    | 3.0 |
| Benzene         | 0.000 10    | 3.0 101.0    | 100.00           | 103      | 101   | 2.0 |
| MTBE            | 0.000 97    | 0 98.0       | 100.00           | 97       | 98    | 1.0 |
| GAS             | 0.000 96    | 5.8 958.2    | 1000.00          | 97       | 96    | 0.0 |

% Re covery = 
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$

22479 zc 232

RUSH

| TURN AROUND TIME   |                   | McCAN  | APBEL'   | LANA   | LYT  | ICAJ             |              | ĪC.                    |  |               | <u> </u>                                     | <u>_^_</u> |      | Т              |                      |            | 7                |              |               | ¬H          | ĀTI           | J C      | )F            | $\overline{ct}$ | רצו   | $\overline{\cap}$ | برياد           | V R  | FC           | 'OR          | $\overline{D}$ |              |   |
|--|-------------------|--|--|--|--|------------------|--------------|------------------------|--|---------------|--|------------|------|----------------|----------------------|------------|------------------|--------------|---------------|-------------|---------------|----------|---------------|-----------------|-------|-------------------|-----------------|--|--------------|--------------|----------------|--------------|---|
| Telephone: (925) 798-1620   Fax: (925) 798-1622   RUSH   24 HOUR 48 HOUR 5 DAY   |                   |  | 110 2nd A  | VENUE SO   | OUTH,  | , #D7            |              | . —                    |  |               |  |            |      |                |                      | т          | T TR             | N.           |               |             |               |          |               |                 |       |                   | . بر            |  |              | / <b>U</b> I |                | П            |   |
| Report To: Ron Scheele   | Telepho           | me: (925) 798                                    |  | IECO, CA   | 94553  |                  | ax. (        | 925)                   | 798  | -16           | 72   |            |      |                |                      |            | O <sub>1</sub> , | TT 4 1       |               | OO,         | ۷۲.           | 1 11     | .VII          |                 |       |                   |                 |  |              | ₹ 48         | `              | _            | Y |
| Company: Cambria Environmental Technology   G262 Fiolis Street   Fineryville, CA 94608   Tele: (510) 450-1983   Fax: (510) 450-8295   Project Name: Work   G100   Fax: (510) 450-8295   Fax: (510) 450-8295   Project Name: Work   G100   Fax: (510) 450-8295    |                   |  | 1020   | <u></u>  | Bill T   |                  | un. (        | 720,                   |  | -10.          |  |            |      | +              |                      |            | <del></del>      |              |               | naly        | rsis I        | Regi     | nest          |                 |       |                   |                 |  |              |              |                |              |   |
| C262 Hollis Street   Emeryvile, CA 94608   Tele; (510) 450-8295   Project Mame: World Carlot Carlo   | •                 |  | ntal Tech  |  |  |                  | <u> </u>     | m                      | O  |               |  |            |      | +              | $\neg$               | $\Box$     |                  |              | 7             |             | 3.0           |          | T             |                 |       | Γ_                | Т               | <del>                                     </del> |              |              | <del></del>    | Commission   |   |
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| SAMPLEID LOCATION Date Time WATRY Neglection 10 8 K A Strong Stro |                   |  |  | F  | Зах: (:  | 510) 4           | 50-8         | 295                    |  |               |  |            |      | - 5            | Σ                    |            | 2 5              | 7            |               |             |               |          |               | / 83            |       | '                 |                 |  |              |              |                |              |   |
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| SAMPLEID LOCATION Date Time WATRY Neglection 10 8 K A Strong Stro | Project Location: | Morthis  | aton   |  | . <u> </u>                                       | -                |              | ·- h                   | <u> · · · · · · · · · · · · · · · · · · </u> |               | 1  | <u></u>    |      | - 1 -          | +                    | 1          | ase (            | STO          | Jeua          | 777         | LY            |          |               | 5/8             |       | ]                 | 9               |  |              |              |                |              |   |
| FF Worth 10-72 6:00 1 8/6 X X X X X X X X X X X X X X X X X X X  | Sampler Signature | do   | 3  |  |  |                  |              | -                      |  |               |  |            |      | - 5            | 7,802                |            | 5   1            | Sar          | 3/5           | ,           | NO.           |          |               | 1 62            |       |                   | 109/2           |  |              | 1            |                |              |   |
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| WAS ASSESSED TO AS | EF                | Worth  | 10-12  | 6100t  | 11   | B/16             |              | X                      |  |               |  |            |      | 2              | <u> </u>             |            |                  |              |               |             |               |          |               |                 |       |                   |                 |  |              |              | 30             | 34U          |   |
| WAS ASSESSED TO AS |                   | <u> </u>   | <u>                                     </u>     | <u> </u>   | <u> </u>   | !                |              |                        |  |               |  |            |      | $\perp$        |                      |            |                  |              |               |             |               |          |               |                 |       |                   |                 |  |              |              | ፍበ             | 2 4 4        | ' |
| WAS ASSESSED TO AS |                   |  | [ '  | [ '  | [ '  | '                |              |                        | T  |               | _  |            |      |                |                      |            |                  |              |               |             |               |          |               |                 |       |                   |                 |  |              |              | 30             | 341          |   |
| THE STATE OF THE PROPERTY OF T |                   |  |  |  |  |                  |              | $\top$                 |  |               | $\neg$                                       |            | 1    | 1              | 1                    | 1          |                  | 1-           |               | +           |               |          |               |                 |       | $\neg$            |                 |  |              |              | 7              |              |   |
| THE STATE OF THE PROPERTY OF T |                   |  | · · · · · · · · · · · · · · · · · · ·            |  | <b> </b>   |                  |              | +                      | -  | -             | _  | +          | +    | +              | +                    | +          | +                | +-           | +             | +           | +             |          |               |                 | -     |                   | [               |  | +            | +            | -              |              |   |
| THE STATE OF THE PROPERTY OF T |                   |  |  |  | <b> </b>   |                  | $\vdash$     | +                      | +  |               | -+   |            | +    | +              | +                    | +          | +                |              | +             | <del></del> | <del>  </del> | $\vdash$ | $\rightarrow$ | $\dashv$        |       |                   | ,               |  |              | -+-          | +              |              |   |
| THE STATE OF THE PROPERTY OF T |                   | <del>                                     </del> | <b> </b>   | <del> </del> '                                   | <b> </b>   | <del> </del>     |              |                        | +-   |               | $\dashv$                                     | +          | +    | +              | +                    | +          | +                |              | - -           | +           | <b>├</b>      |          |               | $\rightarrow$   | -     | $\dashv$          | ,J              |  | -            |              |                |              |   |
| THE STATE OF THE PROPERTY OF T |                   | <sup>!</sup>                                     | <b></b> !  | <b> </b>   | <del>                                     </del> | <b> </b>         | $\vdash$     | +                      |  |               | $\dashv$                                     |            |      | _              |                      |            | +                | 4-           | 4             | +           | <u> </u>      |          | <u> </u>      |                 | 4     |                   |                 | <b>├</b> ─- <b>├</b>                             |              |              |                | <del> </del> |   |
| THE STATE OF THE PROPERTY OF T |                   |  | <b></b> !  | <b></b>  | <b>↓</b> ′                                       | igsqcup          | Ш            | _ _                    |  |               | _  | $\perp$    | _    |                |                      |            | $\perp$          |              |               |             |               |          |               | $\perp$         |       |                   |                 |  |              |              |                |              |   |
| THE STATE OF THE PROPERTY OF T |                   |  | l!   | 1  |  |                  |              |                        |  |               |  |            |      |                |                      |            |                  |              |               |             |               |          |               |                 |       |                   |                 |  |              |              |                |              |   |
| THE STATE OF THE PROPERTY OF T |                   |  | [  | ,  |  |                  |              |                        | $T^{-1}$                                     |               |  |            |      |                |                      |            | $\top$           |              |               |             |               |          |               |                 |       |                   |                 | V/A  | 3170         | O BEST       | necl           | Truco        |   |
|  |                   |  |  | <b> </b>   |  |                  |              |                        |  | H             | 7  | \ \ \      |      | +              | 1                    | +          | 115              | Þ            |               | 1           |               |          | 7             | Pf              | OF T  | 77                | $T_{N}$         | ¥  |              |              | *              | ungn         |   |
|  | ~                 |  |  | !  |  | 1                |              | _                      | 1/   |               | -  | 1          | +    | +              | +                    | -          |                  |              | ĪŦ            |             | -             | 1        | $\overline{}$ | 15              |       |                   |                 |  |              |              | +              | restation.   | - |
|  | ·.                | <u> </u>   |  |  |  | <del></del>      | -            | +                      | #-   |               | 71/  |            |      | +              |                      | +          | 1                |              | - 1           |             | 1             |          |               |                 | grift | #                 | 31 A            | 1  | $\leftarrow$ |              | ┼┤             |              |   |
| Refinduished By: Date: Fine Region By: Remarks: 0  |                   | 3  | <del>                                     </del> | <del>                                     </del> | <u> </u>   | $+\mathcal{A}$   |              | )                      | #  | 1/2           | ₩.   | +          |      | -              | +                    | +-         |                  | -            | +             | 1           |               |          | PRINT         |                 |       | 14.10             | ·/              |  | -            |              | +              |              |   |
| Romanushed By: //   Date:   Prince:   Register By: //   Remarks: 0 . +   | - ( Las B         | <u>,                                    </u>     | 12-12-   | <u>  (                                   </u>    |  |                  | $\mathbf{L}$ | $\cancel{\mathcal{L}}$ | ₩  | (//J          | <u>/                                    </u> | <u>Ļ</u>   |      | 4,             |                      | Щ.         |                  |              |               | <u> </u>    |               |          |               |                 |       |                   |                 |  |              |              |                |              |   |
| AXE TESUTISH THE NOT IN VIMV. HAX results HIMP   | X Cook            | entloy   | V. /   | 77 H 5   | Ters   |                  | \$1          |                        | XX   | 4             |  | 极          | 39   | 1              | Rem                  | iarks      | 3: K             | ep.          | oV            | ti          | ņ             | $\wp$    | ργ            | W.              | . J   | _<br>-0           | ιX              | r  | e,           | suli         | ts,            | ASAP         | ' |
| Romayisher By Date: Time: Receiver By: ) Le Devina Line + For Tott of 10 no my   | Reinquished       | TANA   | Date:  | Time:  | Recei  | iv <b>e</b> l/By | /: X         | $T_{i}$                | $\Gamma$                                     | J             |  |            |      | $\exists \ell$ | ie D                 | ien-       | tiv              | 1Q           | Ì             | Liaz        | ;-}           | 7        |               | . ,             | سر    | 24                | •               | af   | `10          | ממ (         | mi             |              |   |
| 1 10/3 10/3 10% Sweet by de limit tor THE OF 10 pp mv.   | 1/2001            | 1 7/25   | 10.13  | 164  | اررح   | XV               | للهط         | W                      | 10   | Ň.            |  |            |      |                | _ 1                  | ` -        |                  | S            | ١             | 1 40 0      | ıţ            | ,        | DY            |                 | l 1   | 11                | $g^{\circ}$     | ンロ   | , ,          | PY           | 111            |              |   |
| Relinquished By: Date: Time: Received By: (20 m Linjection)  | Relinquished By:  | 1  |  | <del></del>                                      | Recei  | ived By          | /: <b>\</b>  |                        | 1  | - <del></del> | -  |            |      |                |                      |            |                  |              |               |             |               |          |               |                 |       |                   | $\hat{\lambda}$ | 0 r  | nL           | inj          | ec             | tion)        |   |

| Cambria Environmental Technology | Client Project ID: #130-0105; | Date Sampled: 10/20/00   |
|----------------------------------|-------------------------------|--------------------------|
| 1144 65th Street, Suite C        | Worthington                   | Date Received: 10/23/00  |
| Oakland, CA 94608                | Client Contact: Ron Scheele   | Date Extracted: 10/23/00 |
|                                  | Client P.O:                   | Date Analyzed: 10/23/00  |

10/30/00

#### Dear Ron:

#### Enclosed are:

- 1). the results of 3 samples from your #130-0105; Worthington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

| Cambria Environmental Technology      | Client Project ID: #130-0105; | Date Sampled: 10/20/00         |
|---------------------------------------|-------------------------------|--------------------------------|
| 1144 65 <sup>th</sup> Street, Suite C | Worthington                   | Date Received: 10/23/00        |
| Oakland, CA 94608                     | Client Contact: Ron Scheele   | Date Extracted: 10/23-10/24/00 |
|                                       | Client P.O:                   | Date Analyzed: 10/23-10/24/00  |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\* EPA methods 5030, modified 8015, and 8021B; California RWOCB (SF Bay Region) method GCFID(5030)

| Lab ID    | Client ID                      | Matrix | TPH(g) <sup>†</sup> | МТВЕ | Benzene | Toluene | Ethylben-<br>zene | Xylenes | % Recovery<br>Surrogate |
|-----------|--------------------------------|--------|---------------------|------|---------|---------|-------------------|---------|-------------------------|
| 51131     | In                             | w      |                     |      | ND      | ND      | ND                | ND      | 97                      |
| 51132     | Mid                            | w      |                     |      | ND      | ND      | ND                | ND      | 94                      |
| 51133     | Eff                            | w      |                     |      | ND      | ND      | ND                | ND      | 100                     |
| _         |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        |                     |      | •       |         |                   |         |                         |
|           |                                |        |                     |      | -       |         |                   |         |                         |
|           |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        |                     |      |         |         |                   |         |                         |
| ·         |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        |                     |      |         |         |                   |         |                         |
|           |                                |        | <u>.</u>            |      |         |         |                   |         |                         |
| Reporting | Limit unless                   |        |                     |      |         |         |                   |         | <u> </u>                |
| otherwis  | e stated; ND<br>detected above | W      | 50 ug/L             | 5.0  | 0.5     | 0.5     | 0.5               | 0.5     |                         |
|           | orting limit                   | S      | 1.0 mg/kg           | 0.05 | 0.005   | 0.005   | 0.005             | 0.005   |                         |

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

<sup>&</sup>quot; cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

# **QC REPORT**

Date:

10/22/00-10/23/00

Matrix:

Water

Extraction:

N/A

|                  | !<br>   | Concent | tration: | ug/L             | %Rec     | overy  |      |
|------------------|---------|---------|----------|------------------|----------|--------|------|
| Compound         | Sample  | MS      | MSD      | Amount<br>Spiked | MS       | MSD    | RPD  |
| SampleID: 102300 |         |         |          | Instru           | ıment: G | C-7    |      |
| Surrogate1       | 0.000   | 92.0    | 103.0    | 100.00           | 92       | 103    | 11.3 |
| Xylenes          | . 0.000 | 310.0   | 323.0    | 300.00           | 103      | 108    | 4.1  |
| Ethyl Benzene    | 0.000   | 101.0   | 107.0    | 100.00           | 101      | 107    | 5.8  |
| Toluene          | 0.000   | 99.0    | 107.0    | 100.00           | 99       | 107    | 7.8  |
| Benzene          | 0.000   | 97.0    | 104.0    | 100.00           | 97       | 104    | 7.0  |
| MTBE             | 0.000   | 101.0   | 106.0    | 100.00           | 101      | 106    | 4.8  |
| GAS              | 0.000   | 958.1   | 947.4    | 1000.00          | 96       | 95     | 1.1  |
| SampleID: 42584  |         |         |          | Instru           | ment: G  | C-11 B |      |
| Surrogate1       | 0.000   | 113.0   | 117.0    | 100.00           | 113      | 117    | 3.5  |
| TPH (diesel)     | 0.000   | 335.0   | 356.0    | 300.00           | 112      | 119    | 6.1  |

$$\% \text{ Re covery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} 2.100$$

|   | McCAM             | 10 2 <sup>nd</sup> AN |  | UTH,   | #D7             |                         |             |            | •        |          |                        |                |                      | TU                    | RN                                   |                |                            |                |                           |                       |                |                        | <b>O</b>       |                 | ١            | ü        |               | RD       |                  | ( <u>)</u> | _   |
|---|-------------------|-----------------------|--|--|-----------------|-------------------------|-------------|------------|----------|----------|------------------------|----------------|----------------------|-----------------------|--------------------------------------|----------------|----------------------------|----------------|---------------------------|-----------------------|----------------|------------------------|----------------|-----------------|--------------|----------|---------------|----------|------------------|------------|-----|
|   | ne: (925) 798-    | 1620                  |  |  |                 | ax: (9                  | 25) 7       | 798-1      | 622      |          |                        |                |                      |                       |                                      |                |                            | 1              | - 5                       |                       |                | - К                    | USI            | 1               | 24 F         | 100      |               |          |                  | 5 D.       |     |
| Report To: Ron Sc                       |                   |                       |  | ill To   | :               |                         |             |            |          |          |                        | -              | i -                  | 7                     |                                      | i              | Ana                        | arys           | is K                      | equi                  | st             |                        |                | <del></del>     | 1            | -        | Oth           | ier      | +                | omme       | nis |
| Company: Cambria                        |                   | ital Techr            | ology  |  |                 |                         |             |            |          |          |                        |                | ٥                    | Grease (5520 E&F/B&F) |                                      |                |                            |                | 1                         |                       |                |                        |                |                 | :            |          | įi            |          |                  |            |     |
|   | ollis Street      |                       |  |  |                 |                         |             |            |          |          |                        |                | 120                  | F/B                   |                                      | į              |                            |                |                           |                       |                | >                      | :              | ł               |              | 1        | į ;           |          |                  |            |     |
|   | ille, CA 9460     | 8                     |  |  | 10) 4           | 6A 92                   | 0.5         |            |          |          |                        |                |                      | E&                    | =                                    |                | ı İ                        | İ              |                           | -                     |                | 0100 / 0700 / CTD V 17 |                |                 | į            |          |               |          | Ì                |            |     |
| Tele: (510) 450-19                      | 83                |                       |  |  | 10) 4           | 50-82                   | 93          | 11         |          |          |                        |                | <b>Q</b>             | 520                   | 418                                  |                | Ì                          |                |                           |                       | Š              | 3                      |                |                 |              |          |               |          |                  |            |     |
| Project #: 130 Project Location:        | 5-0105            | 2                     | - <del>- X</del>                                 |  | Nam             | e:                      | <b>√</b> ¢  | <u>r++</u> | <u> </u> | u to     | <b>3</b> ~             | վ 🖁            | į                    | ;e (5                 | ns (·                                |                | (020                       |                | >                         |                       | 60             | 3                      |                |                 |              |          |               |          |                  |            |     |
| Project Location:                       | 35 th             | 2 reet                | <u>. , O</u>                                     | akl  | مہ              | ed_                     |             | 24         |          |          |                        | -   8          |                      | rea                   | arbo                                 |                | / 8(                       | i              | N                         |                       | 303            | 3                      |                | (0109/2/662     |              |          |               |          |                  |            |     |
| Sampler Signature                       |                   | $\geq$                |  |  |                 | т.                      |             |            | -        | MET      | HOD                    | -  ∰           |                      | ু স                   | droc.                                |                | 602                        |                | 3,8 (                     | 8                     | Š              | ۲                      |                | 9.27            |              |          | i             |          |                  |            |     |
|   |                   | SAMF                  | PLING  | İ  | 23              | N                       | [AT]        | RIX        | F        | RESE     |                        |                | TPH as Diesel (8015) | Total Petroleum Oil & | Total Petroleum Hydrocarbons (418.1) |                | BTEX ONLY (EPA 602 / 8020) |                | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | د ا            | š   .                  |                |                 |              |          | ;<br><b>i</b> |          |                  |            |     |
|   |                   |                       |  | ers  | aire            |                         |             |            | $\Box$   |          |                        |                |                      | E E                   | E                                    | 010            | ۲ (                        | 080            | 080                       | 240                   | 270            |                        |                | 742             | 1            |          | i             |          | - }              |            |     |
| SAMPLE ID                               | LOCATION          |                       | ł  | # Containers                                     | Type Containers | 1                       |             |            | Ì        | ļį       |                        | BTEX & FPT 183 | Die                  | ig                    | 120                                  | EPA 601 / 8010 | Z                          | EPA 608 / 8080 | 8/8                       | 8,4                   | EPA 625 / 8270 | OAM-17 Metale          | LUFT 5 Metals  | Lead (7240/7421 |              |          |               |          | -                |            |     |
|   |                   | Date                  | Time   | ont  | )<br>V          | Ē                       | <u>.</u> ]. | dg         | ig.      |          | ည္ခုန္                 | .   *8         | 1 as                 | a<br>P                | a Pe                                 | 3              | X                          | 9              | 4 60                      | 62                    | 5 5            |                        |                | Q               |              |          | i             |          |                  |            |     |
|   |                   |                       |  | )<br>#   | <u></u>         | Water                   | Air         | Sludge     | 돌   3    | 되었       | HNO,                   |                | <u> </u>             | ]<br>Jot              | Tot                                  | EP.            | BT                         | EP             | EP/                       | EP/                   | 台台             | ડે   ૄ                 | 5   3          | Lea I           | RCI          |          |               |          |                  |            |     |
|   |                   |                       |  | 2  | <del> </del> -  | $\bigvee$               | +-          | + +        | $\dashv$ | $\nabla$ | +                      | $\downarrow$   | <del>/</del>         |                       |                                      |                |                            |                | Ť                         |                       |                | $\top$                 | <del></del>    | -               | ╁            | <b>†</b> |               |          |                  |            |     |
| 110                                     |                   | 200d0                 | L0930  |  | ├               | $\langle \cdot \rangle$ |             | 1          | +        | +        |                        | +              | +-                   | ┼                     |                                      |                |                            |                |                           |                       |                |                        | -              |                 | -            |          |               |          |                  |            |     |
| WID                                     |                   |                       |  | 3  |                 | ĮX,                     |             | <b> </b>   |          |          | $\perp$                | -              |                      | ļ                     |                                      |                |                            |                |                           |                       |                | +                      |                | +               |              |          |               |          |                  |            |     |
| EFF                                     |                   | <b>1</b>              | \  | 3  |                 | $X_{-}$                 |             |            |          | V        |                        | W              | 1                    | l                     |                                      |                |                            |                |                           |                       |                |                        | $\perp$        |                 |              |          | - \$          |          |                  |            |     |
|   |                   |                       |  | 1  |                 |                         |             |            | ļ        |          | ļ                      |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                | ╛.              |              |          | L (           |          |                  |            |     |
|   |                   |                       |  |  |                 |                         |             |            |          |          |                        |                |                      |                       |                                      |                |                            | '              |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
|   |                   |                       |  | <b> </b>   | <u> </u>        | Ħ                       |             | 1          |          | 1        |                        |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        | 1              |                 |              | 1        | ĺ             |          | 1                |            |     |
|   | <del></del>       |                       | - <del>-</del>                                   | ╁  | <b>-</b>        | 1                       | -           | 1          | +        |          |                        | -              | -                    | ┼~                    |                                      |                |                            |                |                           | _                     |                | -                      | †              | -+              | ·            | <b> </b> |               |          | - 1              |            |     |
|   |                   | ļ                     |  | ļ  | <u> </u>        | 1                       |             | -          |          | 1        |                        | -              |                      | ┼─                    |                                      |                |                            |                |                           |                       |                | +                      | -  -           | +               | +-           |          | t i           |          |                  |            |     |
|   |                   |                       |  | ļ  | L.              |                         |             | 1_         | _        |          |                        | - -            |                      | <u> </u>              |                                      |                |                            |                | <u> </u>                  |                       |                |                        |                |                 | <del> </del> |          |               | -        |                  |            |     |
|   | 1                 | 1                     |  | 1  |                 |                         |             |            |          |          | <u> </u>               |                | _                    | <u> </u>              |                                      |                |                            |                | }                         |                       | _              |                        | _              | J               | <u></u>      | 1        | <b> </b>      | <b> </b> | _                | ,          |     |
|   |                   |                       | 1  |  |                 |                         |             |            |          |          | !                      | 1              |                      | l                     |                                      |                |                            |                |                           |                       |                | ]                      |                | _               |              |          |               |          |                  |            |     |
|   |                   | <del> </del>          | <del>                                     </del> | <del>                                     </del> | 1               | 1                       |             | 1 1        | _        | -        |                        |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
|   |                   | <del> </del>          | <del> </del>                                     | <del> </del>                                     | -               | ╁╌┼                     |             | 1-1        | $\dashv$ |          |                        | T              | to FA                | <b>A</b>              |                                      |                |                            |                |                           | ^^                    |                |                        |                |                 |              |          | 131           | HE.      |                  |            |     |
|   | ļ                 | <b> </b>              | <b> </b>   | -  | <del> </del>    | ╂┈┼                     | -           | +          |          |          | +                      |                |                      |                       | PN:                                  | 7756           |                            |                | -                         | +                     | ट्यम           | <del>41</del> 0        | <del>)  </del> |                 |              |          |               |          |                  |            |     |
|   |                   |                       | <u> </u>   | ļ  |                 |                         |             | 1          | _        |          |                        |                | 1 .                  | ) n                   | 11.74 f                              |                |                            |                |                           |                       | [,             |                        |                |                 | -            | +        |               |          | `   <del>-</del> |            |     |
|   |                   |                       |  | l  |                 |                         | _           |            |          |          |                        | '              | HLAC                 | D: 7                  | i                                    | OUL            | iš i                       |                |                           |                       |                | _                      |                |                 | 1_           | ╆        |               | <u> </u> |                  |            |     |
|   |                   |                       |  |  |                 |                         |             |            |          |          |                        | ı              | +                    |                       |                                      |                |                            |                |                           |                       |                |                        |                | Ţ               |              | 1        |               |          |                  |            |     |
| Relinguistica By                        | <u> </u>          | Date:                 | Time:  | Rece   | eived B         | y:                      |             |            |          | *        |                        | Ī              | ₹ema                 |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
| 1//(\$/                                 |                   | 10/23                 | 10.20  | 19   | دا ۱۷۵۵ ک<br>کک | 154                     | لعصو        | I          |          |          |                        |                |                      | F                     | аx                                   |                | 2.                         | ς ς            | ωį                        | +                     | ۱ د            | $\Delta \leq$          | ŽΑ             | P               |              |          |               |          |                  |            |     |
| Remquished By:                          |                   | Date:                 | Time:  | . /  | eived B         | y:                      |             |            |          |          | $\wedge$               | 7              |                      | •                     |                                      |                | 1                          | _              | ~ (                       | ' -                   | , '            | • •                    | <b>-</b> , `   | •               |              |          |               |          |                  |            |     |
| A Stewa                                 | $\mathcal{L}\ell$ | 8/23                  | 1315   | <b>//</b> \                                      | IJAA            | ON                      |             | $\bigvee$  | $V_{i}$  | 19       | $\mathcal{P}^{\times}$ |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
| Relinquished By:                        |                   | Date:                 | Time:  | Rec  | eived E         |                         |             |            |          | · · ·    |                        | 7              |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
| , |                   |                       | 1  |  |                 |                         |             |            |          |          |                        |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          |               |          |                  |            |     |
| !                                       |                   | .1                    | 1  |  |                 |                         |             |            |          |          |                        |                |                      |                       |                                      |                |                            |                |                           |                       |                |                        |                |                 |              |          | <u> </u>      |          |                  |            |     |

| Cambria Environmental Technology      | Client Project ID: #130-0105-336; | Date Sampled: 11/09/00   |
|---------------------------------------|-----------------------------------|--------------------------|
| 1144 65 <sup>th</sup> Street, Suite C | Worthington                       | Date Received: 11/10/00  |
| Oakland, CA 94608                     | Client Contact: Ron Scheele       | Date Extracted: 11/10/00 |
|                                       | Client P.O:                       | Date Analyzed: 11/10/00  |

11/17/00

#### Dear Ron:

### Enclosed are:

- 1). the results of 2 samples from your #130-0105-336; Wortlington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Edward Hamilton, Lab Director

|                       |  |                |            |                 |              |               |                   |                | · · · · · · · · · · · · · · · · · · ·  |
|-----------------------|--|----------------|------------|-----------------|--------------|---------------|-------------------|----------------|--|
| Cambria               | Environmenta                           | al Technolo    |            | ent Project II  | oled: 11/09  | /00           |                   |                |  |
| 1144 65 <sup>th</sup> | Street, Suite                          | С              | Wo         | rthington       |              |               | Date Rece         | ived: 11/10    | )/00                                   |
| Oakland,              | CA 94608                               |                | Clie       | ent Contact: I  | Ron Scheel   | e             | Date Extra        | cted: 11/10    | 0/00                                   |
|                       |  |                | Clie       | ent P.O:        |              |               | Date Analy        | yzed: 11/1     | 0/00                                   |
|                       | e Range (C6-                           |                |            |                 |              |               |                   |                | * & BTEX*                              |
| EPA metho             | ds 5030, modifie                       | d 8015, and 8  | 020 от 602 | ; California RW | QCB (SF Bay  | Region) me    | thod GCFID(5)     | 030)           |  |
| Lab ID                | Client ID                              | Matrix         | TPH(g)⁺    |                 | Benzene      | Toluene       | Ethylben-<br>zene | Xylenes        | % Recovery Surrogate                   |
| 52814                 | IN                                     | Air            | 590,a      | ND<40           | 17           | 8.4           | 0.70              | 4.3            | #                                      |
| 52815                 | EF                                     | Air            | ND         | ND              | ND           | ND            | ND                | ND             | 105                                    |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       | 7, , , , , , , , , , , , , , , , , , , |                |            |                 |              |               |                   |                | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| بروم <sup>س</sup>     | n (mg/L) to ppm                        | ıv (uL/L) conv | ersion for | TPH(g) assumes  | the molecula | r weight of g | asoline to be e   | qual to that o | f hexane.                              |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       | <del></del>                            |                |            |                 |              |               | <u></u>           |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
|                       |  |                |            |                 |              |               |                   |                |  |
| Reporting             | Limit unless                           | Air            | 10 uL/L    | 1.5             | 0.15         | 0.15          | 0.15              | 0.25           | · · · · · · · · · · · · · · · · · · ·  |
| means not             | e stated; ND<br>detected above         | S              | 1.0 mg/kg  |                 | 0.15         | 0.005         | 0.005             | 0.23           |  |
| the repo              | orting limit                           | J              | 1.0 mg/K   | 5 0.05          | 0.003        | 0.005         | 0.000             | 0.005          | <u>.</u>                               |

<sup>\*</sup> water and vapor samples are reported in uL/L(ppmv), wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

<sup>\*</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.



<sup>\*</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622

http://www.mccampbell.com E-mail: main@mccampbell.com

# **QC REPORT**

Date:

11/10/00

Matrix:

Air

Extraction: N/A

|                 |        | Concent | tration: | ug/L             | %Red     | overy  |      |
|-----------------|--------|---------|----------|------------------|----------|--------|------|
| Compound        | Sample | MS      | MSD      | Amount<br>Spiked | MS       | MSD    | RPD  |
| SampleID: 51008 |        |         |          | Instru           | ıment: G | C-3    |      |
| Surrogate1      | 0.000  | 102.0   | 102.0    | 100.00           | 102      | 102    | 0.0  |
| Xylenes         | 0.000  | 298.0   | 294.0    | 300.00           | 99       | 98     | 1.4  |
| Ethyl Benzene   | 0.000  | 98.0    | 99.0     | 100.00           | 98       | 99     | 1.0  |
| Toluene         | 0.000  | 102.0   | 103.0    | 100.00           | 102      | 103    | 1.0  |
| Benzene         | 0.000  | 103.0   | 104.0    | 100.00           | 103      | 104    | 1.0  |
| MTBE            | 0.000  | 98.0    | 95.0     | 100.00           | 98       | 95     | 3.1  |
| GAS             | 0.000  | 842.4   | 844.2    | 1000.00          | 84       | 84     | 0.2  |
| SampleID: 11200 |        |         |          | Instru           | ıment: G | C-11 B |      |
| Surrogate1      | 0.000  | 103.0   | 117.0    | 100.00           | 103      | 117    | 12.7 |
| TPH (diesel)    | 0.000  | 275.0   | 346.0    | 300.00           | 92       | 115    | 22.9 |

% Re covery = 
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$

|                     | McCAN         | IPBELI                | . ANAI        | LYT          | ICÁI               | . IN     | IC        |       |        |          |             |           | T        |               |                      |                       |                                      |                | Ċ                          | LΙΛ            | TN                   | IC                    | <u>) E</u>     | CT                    | TC'              | TÖ            | ירוו                        | V D            | REC  | $\overline{}$ | DI             | <u> </u> |                 |                        |      |
|---------------------|---------------|-----------------------|---------------|--------------|--------------------|----------|-----------|-------|--------|----------|-------------|-----------|----------|---------------|----------------------|-----------------------|--------------------------------------|----------------|----------------------------|----------------|----------------------|-----------------------|----------------|-----------------------|------------------|---------------|-----------------------------|----------------|--|---------------|----------------|----------|-----------------|------------------------|------|
|                     |               | 110 2 <sup>nd</sup> A | VENUE SO      | OUTH,        |                    |          |           |       |        |          |             |           |          |               | า                    | רז זי                 | RN                                   | ΄ Δ Ί          |                            |                |                      |                       |                |                       | ر.<br>]          |               | עוי                         | ן<br>די        | L)<br>VTV                                    | ں۔            | ارارار<br>≸شرم | <u>,</u> | /<br>:>>        | */                     |      |
| Telenbo             | ne: (925) 798 |                       | IECO, CA      | 94553        | T                  | av: (    | 025       | 798 ( | R_16   | 22       |             |           |          |               |                      | ı O,                  | 1 C 1 A                              | מט             | KO                         | OI.            | U                    | 1 11                  | YI IZ          | •                     |                  | ∟<br>JSH      | í ·                         | 24 T-          | u<br>HOU:                                    | FR<br>∏R      | 48 1           | HOI:     | ≖<br>ΠR 4       | DA'                    | V    |
| Report To: Ron Sc   |               | 1020                  |               | Bill To      |                    | un. (    | , , 2, ,  | 1,100 | , -    |          |             |           |          |               | <del></del>          |                       |                                      |                | An                         | alys           | is F                 | em                    | 1851           |                       |                  |               |                             |                | T  |               | her            |          |                 | ment                   |      |
| Company: Cambri     |               | ntal Tech             |               |              |                    | 2        | A         | N     | 7/=    |          |             |           | $\dashv$ | i             |                      |                       |                                      |                | 1                          |                |                      | Coq                   | 1032           | 1                     | ]                | T             | Т                           | Т              | +  |               | 1101           | Γ        | Con             | uncir                  | 3    |
| 6262 Ho             | ollis Street  |                       |               |              |                    |          |           |       |        |          |             |           |          |               |                      | 3&F                   |                                      |                |                            |                |                      |                       |                |                       |                  |               |                             |                |  |               |                |          |                 |                        |      |
| Emeryv              | ille, CA 9460 | )8                    |               |              |                    |          |           |       |        |          |             |           |          | MTBE          |                      | 8.F/I                 |                                      |                |                            |                |                      |                       |                | 01:                   |                  |               |                             |                |  |               |                |          |                 |                        |      |
| Tele: (510) 450-19  | 83            |                       | I             | ax: (£       | 510) 4             | 50-8     | 3295      | 5     |        |          |             |           | - 1      |               |                      | (A)                   | 8.1)                                 |                |                            |                |                      |                       |                | 1/83                  | 1                |               |                             |                |  |               |                |          |                 |                        |      |
| Project #: 130 -    | 0105-         | 336                   | Ţ.            | тојес        | i Nam              | ie:      | M٠        | oct   | 1.     | M        | $3 \pm $    | vr        |          | 8015)/        |                      | Grease (5520 E&F/B&F) | 4                                    |                | 6                          |                |                      |                       |                | EPA 625 / 8270 / 8310 |                  |               |                             |                |  |               |                |          |                 |                        | •    |
| Project Location: 1 | Monthy        | ato                   | <u> </u>      |              |                    | 2        |           |       |        | <u>.</u> | )           |           |          | 120 +         |                      | ease                  | noq.                                 |                | 802                        |                | ONLY                 |                       |                | 25 /                  |                  |               | 6                           | ļ              |  |               |                |          |                 |                        |      |
| Sampler Signature   |               | 14h-                  |               | an           | u                  |          |           |       |        |          |             |           | _        | 05/80         |                      |                       | ocar                                 |                | 02 /                       |                |                      | ٥                     |                | , A 6.                |                  |               | 2/60                        |                |  |               |                |          |                 |                        |      |
|                     |               | SAMI                  | PLING         |              | ş                  |          | MA        | TRI   | X      |          | 1ETE<br>ESE |           | D        | Gas (602/8020 | TPH as Diesel (8015) | Total Petroleum Oil & | Total Petroleum Hydrocarbons (418.1) |                | BTEX ONLY (BPA 602 / 8020) |                | EPA 608 / 8080 PCB's | EPA 624 / 8240 / 8260 |                | y EF                  |                  |               | Lead (7240/7421/239.2/6010) |                |  |               |                |          |                 |                        |      |
|                     |               | · · · · · ·           | ]             | 1 21         | une                |          |           |       |        |          |             | T         |          | as G          | ®)                   | En                    | 틸                                    | 6              | γ (E                       | 080            | 80 1                 | 04                    | 02             | 1,s b                 | Siets            | ais           | 421/                        |                |  |               |                |          |                 |                        |      |
| SAMPLE ID           | LOCATION      | <u> </u>              | İ             | Containers   | Type Containers    |          |           |       |        |          |             |           |          | BTEX & TPH as | Dies.                | tole                  | trole                                | EPA 601 / 8010 | N.                         | EPA 608 / 8080 | )8/:                 | 88                    | EPA 625 / 8270 | PAH's / PNA's by      | CAM-17 Metals    | LUFT 5 Metals | 40/7                        |                |  |               |                |          |                 |                        |      |
|                     |               | Date                  | Time          | Ont          | )<br>()            | Water    | _         | de e  | ğ      |          |             | <u></u> 5 | ier .    | 2<br>X        | [ as ]               | P. P.                 | Pe                                   | 109            | 0 X                        | 309 1          | 309                  | 624                   | 625            | J S. F                | M-17             |               | 3 (72                       |                |  |               |                |          |                 |                        |      |
|                     |               | ŀ                     |               | #            | Ty                 | ₩a       | Soil      | Aur   | 8      | Ice      | 워           | HNO.      | 3   B    | BTE           | <u> </u>             | Total                 | Total                                | EPA            | BTI                        | EPA            | EPA                  | EPA                   | FPA            | PAF                   | CA               | 15            | Lea                         | 5              |  |               |                |          |                 |                        |      |
| /~/                 |               | 11-9-00               | 6:00          | <del> </del> | BAG                | +        | -         |       | +      |          | _           | $\dashv$  | 1        | $\forall$     | -                    |                       |                                      |                | ,                          |                |                      |                       |                | -                     | -                |               | -                           | -              |  |               |                |          | 52              | B 1 4                  |      |
| EF                  |               | 11-9-00               | 6:00          |              | BAG                |          | _         |       | +      | 1.1      |             |           | ٦,       |               |                      |                       |                                      |                |                            |                | ·                    |                       | سروسر څ        | n /                   | 1/               | -             | \                           | <del> </del> - | 1-   |               |                |          | 528             | 1 =                    |      |
|                     |               |                       |               |              | J                  |          |           | -     | +      |          | $\dashv$    |           |          | -             |                      |                       | -                                    |                | (                          | T.L.           | Ĺ                    | $\supset$             | 111            | 12.                   | YE               | - S           | <b>)</b> —                  |                | 1  | <del> </del>  |                |          | J Z, ()         | 15                     |      |
| <u></u>             |               |                       | <del></del>   |              |                    |          | $\dashv$  | +     | +-     | -        |             | +         |          |               | _                    |                       |                                      |                | ]                          | `              |                      |                       |                |                       | <del> </del>     | -             | <del> </del>                | -              |  |               |                |          |                 |                        |      |
|                     |               | !                     |               | <del> </del> |                    |          |           |       | +-     |          | -           |           |          |               |                      | +                     |                                      |                |                            | H              | $\mathcal{H}_{j}$    | 42                    | 7              | 7-                    | 1                | -             | <del> </del> -              |                | $\vdash$                                     |               | -              |          | <u> </u>        | ·                      |      |
|                     |               |                       |               | 1            | l                  | 1        |           |       | +      | -        |             |           |          |               | -+                   | -                     |                                      |                |                            | _              |                      | <u> </u>              |                |                       | -                |               |                             |                | -  |               |                |          |                 |                        |      |
|                     | <u></u>       | <u> </u>              |               | <del> </del> |                    |          | $\dashv$  |       | +      | 1        | $\dashv$    |           |          | -             |                      | -                     | -                                    |                |                            |                |                      | 1                     | _              | 41                    | 0                | $\vdash$      |                             | -              | ╢  |               |                |          |                 |                        |      |
|                     |               |                       |               | <b></b> -    |                    |          |           |       | -      | -        |             | +         |          |               | $\dashv$             | -                     | _                                    |                |                            |                |                      | 7                     | 7              | 11'                   | ļ                | -             |                             |                |  |               |                |          | ļ               | ·                      |      |
|                     |               |                       |               | -            |                    |          | -  -      |       | 4      |          |             |           | $\dashv$ | +             | -                    |                       |                                      | $\dashv$       |                            |                |                      |                       | -              |                       | ļ                | ·             | ļ                           | <u> </u>       |  | <u> </u>      | Ш              |          |                 |                        |      |
|                     |               |                       | ļ             | ļ            |                    |          |           | _     |        |          |             | _         |          |               |                      |                       |                                      |                |                            |                |                      |                       |                |                       | ļ                |               |                             |                |  |               |                |          |                 |                        |      |
|                     | <br>          |                       |               |              |                    | 1708     | o tic     | 1111  |        |          |             |           | _ _      |               |                      |                       |                                      |                |                            |                |                      |                       |                |                       |                  |               |                             |                |  |               |                |          |                 |                        |      |
|                     |               |                       | <u> </u>      | necen:       | USTICAL.           |          | 216       | 801   | ii lai | ÞU       | HER         |           |          |               |                      |                       | 1                                    |                |                            |                |                      |                       |                |                       |                  |               |                             | İ              |  |               |                |          |                 |                        |      |
|                     | COOD COUD     | rion s                |               | ESER"        |                    |          | 4-        | 1_    | -      |          |             | - [       |          |               |                      |                       |                                      |                |                            |                |                      |                       |                |                       |                  |               |                             | <u> </u>       |  |               |                |          | -               |                        |      |
|                     | GOOD CONDI    |                       |               | PPROF        |                    |          | $\supset$ |       |        |          |             |           |          |               |                      |                       |                                      |                |                            |                |                      |                       |                |                       | † <del>.</del> . |               | †                           |                | <u>                                     </u> |               |                |          |                 | · <del>-</del> · · · · |      |
|                     | HEAD SPACE    | A <del>BSENT_</del>   | <del> (</del> | DATAI        | lek <del>o</del> _ |          | _         |       | 1      | $\vdash$ |             | +         | - -      | $\dashv$      |                      |                       |                                      |                | _                          | -1             |                      |                       |                |                       |                  |               |                             |                | 1-   |               |                |          |                 |                        |      |
|                     |               |                       |               | <b></b>      |                    | ╂╾┼      | -         | -     | -      |          |             |           |          | -             | +                    |                       | -                                    |                |                            |                | <u>.</u>             |                       |                |                       | <del> </del>     |               | _                           |                |  | $\rightarrow$ |                |          | ·               |                        |      |
| Relinquished By:    |               | Date:                 | Time:         | Rece         | ived B             | <u> </u> |           |       | Т      |          |             |           |          | Par           | marl                 | lro.                  |                                      |                |                            |                |                      | ····                  |                |                       | <u></u>          | <u> </u>      | <u> </u>                    | <u> </u>       |  |               |                |          |                 |                        |      |
| JIMMIE CO           | UCH           | 11-10-0               |               |              | n ,(               |          | נ         |       |        |          |             |           |          |               |                      |                       | 2                                    | 7              | / A                        | ,              | P,                   | ף ש                   | 21             | 1                     | F.               | A;            | ×                           | RE             | 55c  | ال            | 7              | 5        | A. 5            | sA.                    | P    |
| Relinquished By:    |               | Date:                 | Time:         | <del></del>  | ived B             |          | ·         |       |        |          |             |           | $\dashv$ | ア             | ارے۔<br>ع سر         | יט<br>המכ             | , -<br>D 4                           | , ,<br>        | , , .<br>, , .             |                | , ,<br>, ,           | 4 -                   | , v            | -                     | ,                |               | 1                           | 4 72           | , D  | n i           |                | · III    | AP.             | גוס -                  | اررا |
|                     |               |                       |               |              | -                  | -        |           |       |        |          |             |           | ] .      | <i>&gt;</i>   | <del>-</del> 1       | U                     | ·- /                                 | / /^<br>/      | <i>'</i> (3                | - 4            | -/.                  | М                     | 17             |                       | O                | سو            | 10                          | ممع و          | r 13   | 77 (          |                | 1        | . <del></del> ر |                        | 15   |
| Relinquished By:    |               | Date:                 | Time:         | Rece         | ived B             | y:       |           |       |        |          |             |           | -        |               |                      |                       |                                      | 2              | - (                        | $\bigcirc$     | N                    | 1 (                   |                | / <b>/</b> ./         | 17               | -<br>E C      | رسر                         | ום ו           | V .1   | 1//           | 21             | IJ.      | or:<br>ME       | )                      | ł    |
|                     |               |                       |               |              |                    |          |           |       |        |          |             |           |          |               |                      |                       | ſ                                    |                |                            |                | •                    |                       |                |                       | -                | -             | . ,                         | •              | `  |               |                | •        |                 | ノ                      |      |

| Cambria Environmental Technology | Client Project ID: #130-0105-337; | Date Sampled: 10/30/00   |
|----------------------------------|-----------------------------------|--------------------------|
| 6262 Hollis Street               | Worthington                       | Date Received: 10/31/00  |
| Emeryville, CA 94608             | Client Contact: Ron Scheele       | Date Extracted: 10/31/00 |
|                                  | Client P.O:                       | Date Analyzed: 10/31/00  |

11/07/00

#### Dear Ron:

### Enclosed are:

- 1). the results of 2 samples from your #130-0105-337; Worthington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
<a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: main@mccampbell.com

| Cambria Environmental Technology | Client Project ID: #130-0105-337; | Date Sampled: 10/30/00         |
|----------------------------------|-----------------------------------|--------------------------------|
| 6262 Hollis Street               | Worthington                       | Date Received: 10/31/00        |
| Emeryville, CA 94608             | Client Contact: Ron Scheele       | Date Extracted: 11/01-11/02/00 |
|                                  | Client P.O:                       | Date Analyzed: 11/01-11/02/00  |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

| EPA metho | ds 5030, modifie               | d 8015, and | 8020 or 602; Ca     | lifornia RW | QCB (SF Bay | Region) metl | nod GCFID(50      | 30)     |  |
|-----------|--------------------------------|-------------|---------------------|-------------|-------------|--------------|-------------------|---------|--|
| Lab ID    | Client ID                      | Matrix      | TPH(g) <sup>+</sup> | МТВЕ        | Benzene     | Toluene      | Ethylben-<br>zene | Xylenes | % Recovery Surrogate                   |
| 51852     | IN                             | w           |                     |             | 170         | 140          | 16                | 200     | 101                                    |
| 51853     | MID                            | w           |                     |             | ND          | ND           | ND                | ND      | 103                                    |
|           |                                |             | ,                   |             |             |              |                   |         |  |
|           | 175                            |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         |  |
|           | ·                              |             | -                   |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         | -                                      |
|           |                                |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         |  |
|           |                                |             |                     |             |             |              |                   |         | ······································ |
| otherwis  | g Limit unless<br>e stated; ND | W           | 50 ug/L             | 5.0         | 0.5         | 0.5          | 0.5               | 0.5     |  |
|           | detected above<br>orting limit | S           | 1.0 mg/kg           | 0.05        | 0.005       | 0.005        | 0.005             | 0.005   |  |

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

<sup>\*</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

# QC REPORT

Date:

11/01/00

Matrix:

Water

Extraction:

N/A

|                 |        | Concent | ration: | ug/L             | %Red    | overy |     |
|-----------------|--------|---------|---------|------------------|---------|-------|-----|
| Compound        | Sample | MS      | MSD     | Amount<br>Spiked | MS      | MSD   | RPD |
| SampleID: 47054 |        |         |         | Instru           | ment: G | C-3   | 1   |
| Surrogate1      | 0.000  | 100.0   | 103.0   | 100.00           | 100     | 103   | 3.0 |
| Xylenes         | 0.000  | 292,0   | 290.0   | 300.00           | 97      | 97    | 0.7 |
| Ethyl Benzene   | 0.000  | 98.0    | 98.0    | 100.00           | 98      | 98    | 0.0 |
| Toluene         | 0.000  | 101.0   | 102.0   | 100.00           | 101     | 102   | 1.0 |
| Benzene         | 0.000  | 104.0   | 106.0   | 100.00           | 104     | 106   | 1.9 |
| MTBE            | 0.000  | 100.0   | 103.0   | 100.00           | 100     | 103   | 3.0 |
| GAS             | 0.000  | 820.5   | 796.3   | 1000.00          | 82      | 80    | 3.0 |

| SampleID: 11300 |       |             | Instru | ment: G |     |     |
|-----------------|-------|-------------|--------|---------|-----|-----|
| Surrogate1      | 0.000 | 102.0 111.0 | 100.00 | 102     | 111 | 8.5 |
| TPH (diesei) -  | 0.000 | 287.0 302.0 | 300.00 | 96      | 101 | 5.1 |

$$\% \text{ Re covery} = \frac{\left(MS - Sample\right)}{AmountSpiked} \cdot 100$$

$$RPD \approx \frac{\left(\frac{MS - MSD}{MS + MSD}\right)}{\left(\frac{MS + MSD}{MS}\right)} \cdot 2.100$$

227642c244. doc

|     |                                       |  |                       |                      |               |                 |                     |       |   | ( k    | <b>⊃'</b> ⊣    | 12          | <u> </u> | <u>~Ø</u>   | ۷                    | <u>l</u> .            | $\mathcal{U}$                        | $\frac{\mathcal{U}}{\mathcal{U}}$ |  |                           |                       |                |                        |               |               | _                           |       |            |            |  |                |              |              |          |
|-----|---------------------------------------|--|-----------------------|----------------------|---------------|-----------------|---------------------|-------|---|--------|----------------|-------------|----------|-------------|----------------------|-----------------------|--------------------------------------|-----------------------------------|--|---------------------------|-----------------------|----------------|------------------------|---------------|---------------|-----------------------------|-------|------------|------------|--|----------------|--------------|--------------|----------|
|     |                                       |  |                       |                      |               | ICAL INC.       |                     |       |   |        |                |             |          |             |                      |                       |                                      | - (                               | CH                                       | AΓ                        | N (                   | )F             | $\overline{\text{CU}}$ | JST           | ΓΟ            | $\overline{\mathrm{D}}$     | Ϋ́F   | Œ          | СĊ         | RI   | Ď              |              | <b>.</b> .   | 7        |
|     |                                       |  | 110 2 <sup>nd</sup> A | VENUE SO<br>JECO, CA | OUTH,         | ,#D7            |                     |       |   |        |                |             |          |             | 7                    | ГUI                   | RN.                                  |                                   |  |                           |                       |                |                        | Ç             |               |                             |       |            |            |  |                |              | <b>p</b>     | 1        |
|     | Telepho                               | ne: (925) 798                          | -1620                 | ieco, ca             | <i>y</i> 4333 | F               | ax: (               | (925) | 798-1                                   | 622    |                |             |          |             |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               | . 2                         |       |            | JR         | 483  |                | UR F         | ĎλΥ          |          |
|     | Report To: Ron Sc                     |  |                       | J                    | 3ill T        |                 | · · · · · ·         |       | ,                                       |        |                |             |          |             |                      |                       |                                      | 1                                 | Anal                                     | ysis                      | Reg                   | uest           |                        |               |               |                             |       | T          | Oi         | ther   |                | Com          | nents        | $\dashv$ |
|     | Company: Cambri                       | a Environme                            | ntal Tech             | nology               |               |                 |                     |       |   |        |                |             |          |             |                      |                       |                                      |                                   |  |                           | T                     | T              | Τ                      |               |               | -                           | Π     | -          | T          | $T^{-}$  |                | <del> </del> |              | ┪        |
|     | 6262 H                                | ollis Street                           |                       | · · · · · ·          |               |                 |                     |       | • |        |                |             | $\Box$   | ٤           | ,                    | Grease (5520 E&F/B&F) |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       | 1          |            |  |                |              |              |          |
|     | Emeryv                                | ille, CA 9460                          | )8                    |                      |               |                 |                     |       | • • • • •                               |        |                |             |          | #4          |                      | RF/I                  |                                      |                                   |  |                           |                       |                | 2                      |               |               |                             |       |            |            |  |                | •            |              |          |
|     | Tele: (510) 450-19                    | 83                                     |                       | Ī                    | ax: (:        | 510) 4          | 150-8               | 295   |   | •      |                |             |          | 170         | ۱ ۱                  | 0 E                   | £                                    |                                   | İ  |                           |                       |                | / 83                   | }             |               | İ                           |       |            |            |  |                |              |              | -        |
|     | Project #: 13                         | 0-0109                                 | 5 - 33                | 37 I                 | rojec         | t Nan           | ie: į               | 1)    | cth                                     | منہ    | αF             | 2<br>2      | )        | <b>₽</b> ¥  | )                    | (552                  | <u>4</u>                             |                                   |  |                           |                       |                | 270                    |               |               |                             |       |            |            |  |                | j            |              |          |
|     | Project Location:                     | 3512 S                                 | treet                 | , 00                 | XIC L         | AA              | )<br>D              | C     |   |        | $\mathcal{I}$  | <b>~</b>    |          |             |                      | ase                   | Sons                                 | 150                               | 3020                                     | LY.                       |                       |                | 5/8                    |               |               | <u> </u>                    |       |            |            |  |                |              |              | ı        |
|     | Sampler Signature                     | ,<br>!                                 |                       |                      |               |                 |                     |       |   |        |                |             |          | 8           |                      | ğ                     | cart                                 | 5                                 | 77.                                      | S                         |                       |                | EPA 625 / 8270 / 8310  |               |               | [09/                        |       |            |            |  |                | ]            |              | ł        |
|     |                                       |  | SAM                   | PLING                |               | ,,              |                     | MAT   | RIX                                     |        |                | HOD         |          | \$          | (S)                  | ان<br>ان              | Total Petroleum Hydrocarbons (418.1) | 3                                 | BIEZ UNLY (EPA 6027 8020) EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 |                |                        |               |               | Lead (7240/7421/239.2/6010) |       |            |            |  |                | ļ            |              |          |
|     |                                       |  |                       | 1                    | ا ا           | Type Containers | -                   |       | 1 1                                     | P.     | RESE           | ERVE        | יעט      | <b>4</b>    | TPH as Diesel (8015) | 입                     | 표  <br>표   <                         | - E                               |  | A O                       | 0/8                   | ြင             | PAH's / PNA's by       | ıls           | EG            | 21/2                        |       |            | -          |  |                |              |              |          |
|     | SAMPLE ID                             | LOCATION                               | ĺ                     |                      | Containers    | ntai            |                     |       |   |        |                |             |          |             | iese                 | Total Petroleum       | Total Petroleum                      |                                   | ELEX UNLY (F                             | 808                       | 824                   | EPA 625 / 8270 | NA,                    | CAM-17 Metals | LUFT 5 Metals | 0/74                        |       | ł          |            | İ  |                |              |              |          |
|     |                                       |  | Date                  | Time                 | nta           | ပ္ပ             | ե                   |       | Sludge                                  |        |                | ايّ         | u l      | #           | SS D                 | Petr                  | Petr                                 |                                   | 5 8                                      | 8                         | 524 /                 | 325 /          | J P                    | 171           | .¥            | (724                        |       |            |            |  |                |              |              | l        |
|     |                                       |  |                       |                      | ပြ            | ğ               | Water               | Soil  | Sludg                                   | 8   E  | Q              | HINO3       | ੜੂ       | BTEX        | H.                   | g                     |                                      | A L                               | A E                                      | Ă                         | P.A.                  | PA (           | ¥.                     | ΑM            | FE            | ad                          | RCI   | ĺ          |            | '  |                |              |              | ı        |
|     |                                       |  |                       |                      | #             | -               |                     | S  ₹  | S                                       |        | III            | 连           |          | m           | <b>}~</b> i ∤        | -                     | E D                                  | n t                               | t) jt                                    | i ixi                     | Ē                     | 回              | 잗                      | O.            | i             | ŭ                           | 2     | <u> </u>   | <u> </u>   |  |                |              |              |          |
| (£) | _(N                                   |  | 10/30                 | 1120                 | 3             | VOA             | A                   |       |   | _ _    | Χ              |             |          | X           |                      |                       |                                      |                                   | ,  |                           |                       |                | ļ                      |               |               |                             |       |            | 1          |  |                |              |              | į        |
| (£) | MID                                   |  |                       |                      |               |                 |                     |       |   |        |                |             |          |             |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       |            | 1          |  |                | 518          | 52           | į        |
| -   | EFF                                   | •                                      |                       |                      | 1             | U               |                     |       |   |        | U              |             |          | $\int \int$ |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       |            |            |  |                |              |              | ļ        |
| ~   |                                       |  |                       |                      | <u> </u>      | _               |                     |       |   |        | 1              |             |          | الملا       |                      |                       | "                                    |                                   |  |                           |                       | t              |                        |               |               |                             |       |            |            |  |                | 518          | 53           | 1        |
|     | ,,,,,,,,                              |  |                       |                      | İ             |                 |                     |       | 1                                       | $\top$ |                |             | 寸        | $\top$      |                      |                       |                                      |                                   | - -                                      |                           |                       |                |                        |               |               |                             |       |            |            | H  |                | -            | n 2          | į        |
|     | · · · · · · · · · · · · · · · · · · · |  |                       |                      | <b> </b>      | <b> </b>        |                     |       | +                                       | +      | -              |             | $\dashv$ | _           |                      | $\dashv$              | +-                                   |                                   | +  | +                         |                       | <del></del>    |                        |               |               | -                           |       |            | † <u>-</u> | * *  |                | 518          | 94           | 1        |
| İ   |                                       |  |                       |                      | -             | <del> </del> -  |                     |       | +-+-                                    | +      | -              |             | $\dashv$ | $\dashv$    | +                    |                       | -                                    |                                   |  | +                         | -                     | -              |                        |               |               |                             |       | $\vdash$   | ⊢          | <del>                                     </del> | ·              |              |              | 'n       |
|     |                                       |  |                       | <del></del>          | <b>-</b>      | <u> </u>        |                     |       | <del>  -</del> -                        |        | <del> </del> - |             |          | +           |                      |                       | -                                    | -                                 | +  | +                         | ╁.                    | -              | -                      |               |               |                             |       | <u> </u>   | -          | $\vdash$   |                |              |              | 4        |
|     |                                       |  |                       |                      | ļ             | ļ               | $\vdash$            |       |   | _      |                |             |          | $\dashv$    |                      |                       |                                      | <b></b>                           |  | $\perp$                   | <u> </u>              | <u> </u>       |                        |               |               |                             |       |            | <u> </u>   |  |                |              | <del> </del> |          |
| - 1 |                                       |  |                       |                      |               |                 |                     |       | <u> </u>                                |        |                |             |          |             |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       | <u>_</u> . |            |  |                |              |              | 1        |
|     |                                       |  |                       |                      |               | <u> </u>        |                     |       |   |        |                |             |          |             |                      |                       |                                      | /                                 |  |                           |                       | '              |                        | 1             | /OA)          | § 0                         | \$G∤I | META       | tsli       | THE  | n              |              |              |          |
|     |                                       |  |                       |                      | 1             |                 |                     |       |   |        |                |             |          |             |                      |                       | $\mathcal{X}$                        |                                   | T  | 7                         | PR                    | FSFI           | RVAT                   | ON            | $\mathcal{L}$ |                             |       |            |            |  | -              |              |              | 1        |
|     |                                       |  |                       |                      |               |                 |                     |       |   |        | 1              |             |          | TÇI         | -11                  | _                     | VDITH<br>CE A                        | <u> </u>                          |  | /                         | ۱۸                    | ESET<br>PRO    | PRIA                   | TE            |               | 1                           |       |            |            |  |                |              |              | 1        |
| }   |                                       | ************************************** |                       |                      | 1             | <b> </b>        |                     |       |   | 1-     |                |             | 7        | _q(         | )OD                  | co                    | 4Ditti                               | UNI_                              | <del>.   \</del>                         | ,                         | r CM                  | INO            | INF                    | S             |               | _                           |       |            |            |  |                |              |              | 1        |
|     |                                       |  |                       |                      | -             | <del> </del> -  | -                   |       | ++                                      | +      |                |             | $\dashv$ | -#          | AD                   | SPA                   | CEIN                                 | RAL                               | N.                                       | +-                        |                       | 1111           | 1116                   |               |               |                             |       |            |            | $\vdash$   |                |              |              | 1        |
|     |                                       | ····                                   |                       |                      | ļ             | <del> </del>    | $\vdash$            |       | -                                       | +      |                |             |          |             |                      | -                     |                                      |                                   | -  | -                         |                       |                |                        |               |               |                             |       | ļ          |            |  |                |              |              | 4        |
|     | 211                                   |  | Ditte                 | 701                  | <u> </u>      | <u> </u>        | Ш                   |       |   |        |                |             | $\perp$  |             |                      |                       |                                      |                                   |  |                           | <u></u>               |                |                        | -             |               |                             |       | L          |            |  |                |              |              |          |
| 1   | Religioned By:                        |  | Date:                 | Time:                | Rece          | ived B          | y:<br><b>1 .~</b> . | ~ (   | )                                       |        |                |             |          | Rer         | nark                 | ks:<br>ሬ              | 5                                    |                                   | f t                                      | •                         |                       | h T            | )                      |               |               |                             |       |            |            |  |                |              |              |          |
| ļ   | Rayouthad But                         | -                                      |                       | 4.00                 |               | ived B          |                     | (V)   |   |        |                |             | _        |             | ΑX                   | k                     | < e s                                | ςυ                                | 115                                      | •                         | 12/                   | 11             |                        |               |               |                             |       |            |            |  |                | FT           |              |          |
| l   | Reminuished By:                       | $\bigcirc$                             | Dates                 | ) ZI ZO              |               | -               | •                   | . 100 | 101.                                    | ne.    |                |             | Þ        | *]          | Ţ                    | ١                     | n                                    | >                                 | at-                                      | Į,                        | 11                    | D              |                        | lo            | ٨             | سی بر                       | +     | (          | U/         | $\sim$   | <del>[</del> - | +1           |              |          |
| - 1 | Relinguished By:                      |  | Date:/                | Time:                |               | ived B          |                     | ) (V  | J(194())                                | Ü      |                | <del></del> | _        | -7          | `                    |                       | <u> </u>                             |                                   | ,  | •                         | ٠ ١                   |                | , -                    |               |               |                             |       |            |            |  |                |              |              |          |
| Ì   | romquamu ay-                          |  | Date                  | i mie.               | Kece          | ived 19         | y.                  |       |   |        |                |             |          |             |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       |            |            |  | _              | 10.          | /            |          |
| L   |                                       |  | <u> </u>              | <u> </u>             | 1             |                 |                     |       |   |        |                |             |          |             |                      |                       |                                      |                                   |  |                           |                       |                |                        |               |               |                             |       |            |            |  | _              | カし           | VV           | 1        |

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
<a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: main@mccampbell.com

| Cambria Environmental Technology      | Client Project ID: #130-0105-336; | Date Sampled: 11/09/00   |
|---------------------------------------|-----------------------------------|--------------------------|
| 1144 65 <sup>th</sup> Street, Suite C | Worthington                       | Date Received: 11/10/00  |
| Oakland, CA 94608                     | Client Contact: Ron Scheele       | Date Extracted: 11/10/00 |
|                                       | Client P.O:                       | Date Analyzed: 11/10/00  |

11/17/00

Dear Ron:

Enclosed are:

- 1). the results of 3 samples from your #130-0105-336; Worthington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Anna Vida

Edward Hamilton, Lab Director

Yours truly

| Cambria Environmental Technology      | Client Project ID: #130-0105-336; | Date Sampled: 11/09/00         |
|---------------------------------------|-----------------------------------|--------------------------------|
| 1144 65 <sup>th</sup> Street, Suite C | Worthington                       | Date Received: 11/10/00        |
| Oakland, CA 94608                     | Client Contact: Ron Scheele       | Date Extracted: 11/10-11/14/00 |
|                                       | Client P.O:                       | Date Analyzed: 11/10-11/14/00  |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Ethylben-% Recovery Lab ID Client ID Matrix  $TPH(g)^+$ MTBE Benzene Toluene Xylenes Surrogate zene 52913 IN W 760.a 120 86 4.2 84 52914 W MID ND ND ND 105 ND ND52915 EF W ND ND 105 ND ND ND Reporting Limit unless

0.5

0.005

0.5

0.005

5.0

0.05

W

S

50 ug/L

1.0 mg/kg

<sup>\*</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



0.5

0.005

0.5

0.005

otherwise stated; ND means not detected above

the reporting limit

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

eluttered chromatogram; sample peak coelutes with surrogate peak

# **QC REPORT**

Date:

11/10/00-11/11/00

Matrix:

Water

Extraction:

N/A

| Compound         | Concentration: ug/L |       |       |                  | %Recovery |        | 1    |
|------------------|---------------------|-------|-------|------------------|-----------|--------|------|
|                  | Sample              | MS    | MSD   | Amount<br>Spiked | MS        | MSD    | RPD  |
| SampleiD: 51008  |                     |       |       | Instru           | ıment: Gi | C-3    |      |
| Surrogate1       | 0.000               | 102.0 | 102.0 | 100.00           | 102       | 102    | 0.0  |
| Xylenes          | 0.000               | 298.0 | 294.0 | 300.00           | 99        | 98     | 1.4  |
| Ethyl Benzene    | 0.000               | 98.0  | 99.0  | 100.00           | 98        | 99     | 1.0  |
| Toluene          | 0.000               | 102.0 | 103.0 | 100.00           | 102       | 103    | 1.0  |
| Benzene          | 0.000               | 103.0 | 104.0 | 100.00           | 103       | 104    | 1.0  |
| МТВЕ             | 0.000               | 98.0  | 95.0  | 100.00           | 98        | 95     | 3.1  |
| GAS              | 0.000               | 842.4 | 844.2 | 1000.00          | 84        | 84     | 0.2  |
| SampleID: 11200  |                     |       |       | Instru           | ıment: G  | C-11 B |      |
| Surrogate1       | 0.000               | 103.0 | 117.0 | 100.00           | 103       | 117    | 12.7 |
| TPH (diesel)     | 0.000               | 275.0 | 346.0 | 300.00           | 92        | 115    | 22.9 |
| SampleID; 111000 | Instrument: IR-1    |       |       |                  |           |        |      |
| Surrogate1       | 0.000               | 99.3  | 97.3  | 100.00           | 99        | 97     | 2.0  |
| TRPH             | 0.000               | 25.4  | 24.0  | 23.70            | 107       | 101    | 5.7  |

 $\% \text{ Re covery} = \frac{\left( MS - Sample \right)}{AmountSpiked} \cdot 100$ 

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$ 

RPD means Relative Percent Deviation

22950 zc 257

|  | 20   |
|--|--|
| McCAMPBELL ANALYTICAL INC. CH  | HAIN OF CUSTODY RECORD   |
| 110 2 <sup>nd</sup> AVENUE SOUTH, #D7 PACHECO, CA 94553  TURN AROU   | •  |
| Telephone: (925) 798-1620 Fax: (925) 798-1622  | RUSII 24 HOUR 48 HOUR 5 DAY  |
|  | alysis Request Other Comments  |
| Company: Cambria Environmental Technology  |  |
| 6262 Hollis Street   |  |
| Emeryville, CA 94608  Tele: (510) 450-1983  Fax: (510) 450-8295  | 0 0  |
| Tele: (510) 450-1983 Fax: (510) 450-8295   |  |
| Company: Catalon   Catal   | EPA 608 / 8080 EPA 608 / 8080 PCB's ONLY EPA 628 / 8240 / 8260 EPA 625 / 8270 PAH's / PNA's by EPA 625 / 8270 / 8310 CAM-17 Metals LUFT 5 Metals RCI RCI   |
| Project Location: Worth attor  | 1.7 (0) (0) (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7  |
| Air Containers  Sampler Signature:  Soil HCl HNO3  Other Total Petroleum Hydrocarbons (6) EPA 601 / 8010  BTEX ONLY (EPA 602 / 8020)   | EPA 608 / 8080 EPA 608 / 8080 PCB's ONLY EPA 624 / 8240 / 8260 EPA 625 / 8270 PAH's / PNA's by EPA 625 / 8 CAM-17 Metals LUFT 5 Metals RCI RCI   |
| SAMPLING MATRIX METHOD & S S S S S S S S S S S S S S S S S S   | 2B's<br>2B's<br>39.2   |
| SAMILLING SERVED SO SE E O SE  | 0 0 V 8 s by 8 s |
| Sauldge Containers  # Containers    Containers   Containers  | EPA 608 / 8080 EPA 608 / 8080 PCB's EPA 624 / 8240 / 8260 EPA 625 / 8270 EPA 625 / 870 CAM-17 Metals LUFT 5 Metals LOFT 5 Metals RCI RCI   |
| Date Time B O B B B B B C C C C C C C C C C C C C  | 008 /  |
| Date # Conta Petr   HNO3 Other   Total Petr   Total Petr   For Soil   EPA 601   EPA 60 | EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6  |
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| IN Worthington 11-900 6:00 5 VOAX X  | F0040  |
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| FE   | HOO4 T   |
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| Relinquished By: Date: Time: Received By: Remarks:   | VOAS O & G   METALS OTHER  |
| Greg Bentley 1/100630 (Illion  | PREPERINTION .   |
| Relinquished By: Date: Time: Reserved By:  | PRESERVATION   |
| MOCO 11/0/00 6:30 / MOY V MADY GOOD CONDITION_   | APPROPHIATE APPROPHIATE  |
| Relinquished By: Date! Time: Received By: HEAD SPACE ABSENT  | T CONTAINERS   |
|  |  |