

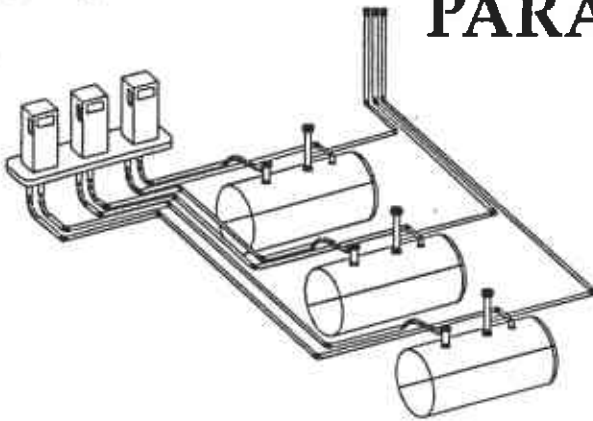
202604

# PARADISO MECHANICAL, INC.

GENERAL & PETROLEUM CONTRACTORS  
and ENVIRONMENTAL SERVICES

P.O. BOX 1836  
2600 WILLIAMS STREET  
SAN LEANDRO, CA 94577

LICENSE NO. 677909  
PHONE (510) 614-8390  
FAX (510) 614-8396



1/07/2004

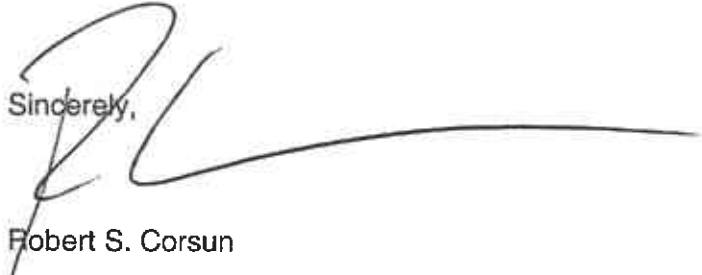
Pacific Gas & Electric Company  
1030 Detroit Ave.  
Concord, CA 94518  
Attn: Gary Pforr, Corp. Real Estate

Re: PG&E Training Center, Fuel Tank Removal  
7205 National Ave., Livermore

Dear Gary,

Enclosed for your review is the Sampling Report for the UST removal at 7205 National Drive. This report was prepared for us by Joel Gregor of Geo-Logic. A copy has also been sent to Paul Smith of LPFD.

Sincerely,

  
Robert S. Corsun

Alameda County  
JAN 23 2004  
Environmental Health

**geo - logic**

*geotechnical and environmental consulting services*

1140 - 5th Avenue, Crockett, CA 94525

(510) 787-6867 - Fax (510) 787-1457

December 12, 2003  
Paradiso Job No. 03-863

Paradiso Mechanical, Inc.  
P. O. Box 1836  
2600 Williams Street  
San Leandro, California

Attention : Mr. Bob Corsun

RE: Sampling Report for Fuel Tank Removals  
P. G. & E. Training Center  
7205 National Drive  
Livermore, California

Dear Mr. Corsun:

This report summarizes the results of sampling performed by Geo-Logic at the referenced site, during the recent fuel tank removals at the above-referenced P. G. & E. training facility.

The scope of the work performed by Geo-Logic consisted of the following:

Collection of two soil samples from beneath each of two fuel tanks, and two composite samples from the excavated soils;

Delivery of the samples with properly executed Chain of Custody documentation to a certified analytical laboratory; and

Technical review of data and preparation of this report.

#### SITE HISTORY AND BACKGROUND

The subject site, which is a P. G. & E. training facility, is located on the southern side of National Drive, south of the 580 freeway, in Livermore, California. At the site, two fuel underground storage tanks (USTs) were removed. Site Plans (Figures 1 and 2) are attached to this report.

## FIELD ACTIVITIES

Geo-Logic's field work was performed on December 3 and 4, 2003. On December 3, 2003, Geo-Logic was present on site for the tank removals, however, the removals could not be completed on that date due to the oxygen levels within the tanks. The tanks were constructed of double-walled steel, and consisted of one 3,000-gallon unleaded gasoline tank and one identical diesel tank. The tanks were approximately twenty feet in length and eight feet in diameter, and were buried approximately four feet. The tanks were underlain by about one foot of pea gravel and then a concrete hold-down slab, to which they were fastened with large steel tie-down straps. The dispenser island and piping were located between the two tanks and had already been entirely removed.

On December 3, 2003, four-part composite samples of two stockpiles were collected. The samples were collected by driving brass liners directly into random points approximately one foot within the stockpiles. The liners containing the samples were capped, labeled, and stored in a cooled ice chest, and then delivered immediately to the laboratory. The excavated soil consisted predominantly of pea gravel, although there was some clayey silt material from the sidewalls of the excavation. There was no obvious indication of any hydrocarbon impacts such as odors or staining. Mr. Paul M. Smith of the Livermore-Pleasanton Fire Department was present during the sampling.

On December 4, 2003, the two tanks were moved. The tanks, which were approximately twelve years old, appeared to be in good condition with no holes. The tanks were transported under manifest to ECI in Richmond, California. The dispenser pumps and piping were also removed from the site.

Following removal of the tanks, soil and water samples were collected. The water in the tank pit appeared to have originated from a broken water pipe several feet below the top of the tank pit, with some contribution from rainfall. The water was contained by the concrete hold-down slab, and was several inches thick in depth. One water sample was collected from the fill end (west end) of each of the two tanks. The samples, labeled as Diesel-W-Water and UNL-W-Water, were collected by laying a disposable teflon bailer down horizontally within the shallow puddle of water. It should be noted that groundwater in the area of the P. G. & E. facility would not be expected at ten feet below grade (the depth of the hold-down slab).

Soil samples were also collected from native soil in the sidewalls of the excavation at each end of the tanks. The soil samples were collected from just above the concrete hold-down slab, at approximately ten feet below grade. The locations of the samples are shown on Figure 1.

The samples were collected by hand driving brass liners directly into material retrieved by backhoe. The native material encountered in the sidewalls of the excavation consisted of silt. The liners containing the samples were capped, labeled, and stored in a cooled ice chest prior to delivery to the laboratory. The samples were delivered to the laboratory under chain-of-custody procedures, immediately after sampling was completed.

## ANALYTICAL RESULTS

The soil samples were analyzed by McCampbell Analytical in Pacheco, California, and were accompanied by properly executed Chain of Custody documentation. All of the samples were analyzed for total petroleum hydrocarbons (TPH) as diesel by EPA Method 8015 Modified, and for TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Methods 8015-Modified and 8020. These samples were also analyzed for fuel oxygenates by EPA Method 8260, and for total lead.

The analytical results of all of the soil samples, including the two stockpile samples, indicated non-detectable concentrations of TPH as gasoline, BTEX, and MTBE and the other fuel oxygenates. TPH as diesel was non-detectable in all of the samples where that analyses was performed.

Total lead was detected in all of the soil samples at concentrations ranging from non-detectable to 9.1 parts per million (ppm), which appears to be naturally-occurring "background" levels.

The analytical results of the two "grab" water samples were non-detectable for TPH as gasoline and BTEX. TPH as diesel was detected in the sample from the fill end of the diesel tank at a concentration of 300 parts per billion (ppb). MTBE and t-butyl alcohol (TBA) were detected at elevated concentrations in both water samples. Other fuel oxygenates were non-detectable. Lead was detected at concentrations of 0.065 and 0.13 ppm in the samples from beneath the diesel tank and the gasoline tank, respectively.

The results of the analyses are summarized in Tables 1 and 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

## DISTRIBUTION

A copy of this report should be sent to Mr. Paul M. Smith of the Livermore-Pleasanton Fire Department.

## LIMITATIONS

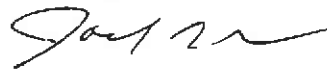
Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

Should you have any questions regarding this report, please feel free to call me at (510) 787-6867.

Sincerely,

Geo-Logic



Joel G. Greger, C.E.G.  
Certified Engineering Geologist



License No. EG 1633  
Exp. Date 8/31/2004

Attachments: Tables 1 and 2  
Figure 1  
Laboratory Analyses and  
Chain of Custody documentation

TABLE 1  
 SOIL ANALYTICAL RESULTS  
 P. G. & E. - Livermore  
 7205 National Drive, Livermore, CA

Samples collected on 12/3 and 12/4/03.

| Sample/<br>Depth (feet) | TPH-d<br>(ppm) | TPH-g<br>(ppm) | BTEX<br>(ppm) | MTBE<br>by 8260 | Other Fuel<br>Oxygenates | Total Lead<br>(ppm) |
|-------------------------|----------------|----------------|---------------|-----------------|--------------------------|---------------------|
| UNL-WEST (10')          | NA             | <1.0           | <0.005        | <0.005          | ND                       | 8.1                 |
| UNL-EAST (10')          | NA             | <1.0           | <0.005        | <0.005          | ND                       | 7.5                 |
| MESEL-WEST (10')        | <1.0           | <1.0           | <0.005        | <0.005          | ND                       | 9.1                 |
| MESEL-EAST (10')        | <1.0           | <1.0           | <0.005        | <0.005          | ND                       | 8.0                 |
| Comp S1                 | <1.0           | <1.0           | <0.005        | <0.005          | ND                       | <5.0                |
| Comp S2                 | <1.0           | <1.0           | <0.005        | <0.005          | ND                       | 5.3                 |

**EXPLANATION:**

ppm = parts per million

TABLE 2  
 WATER ANALYTICAL RESULTS  
 P. G. & E. - Livermore  
 7205 National Drive, Livermore, CA

Samples collected on 12/4/03.

| Sample/<br>Depth (feet) | TPH-d<br>(ppb) | TPH-g<br>(ppb) | BTEX<br>(ppb) | MTBE<br>by 8260 | TBA<br>(ppb) | Lead<br>(ppm) |
|-------------------------|----------------|----------------|---------------|-----------------|--------------|---------------|
| DIESEL-W-WATER          | 300            | <50            | ND            | 150             | 90*          | 0.065         |
| UNL-W-WATER             | NA             | <250           | ND            | 7,500           | 2,200*       | 0.13          |

**EXPLANATION:**

ppb = parts per billion

\* Other fuel oxygenates were non-detectable.

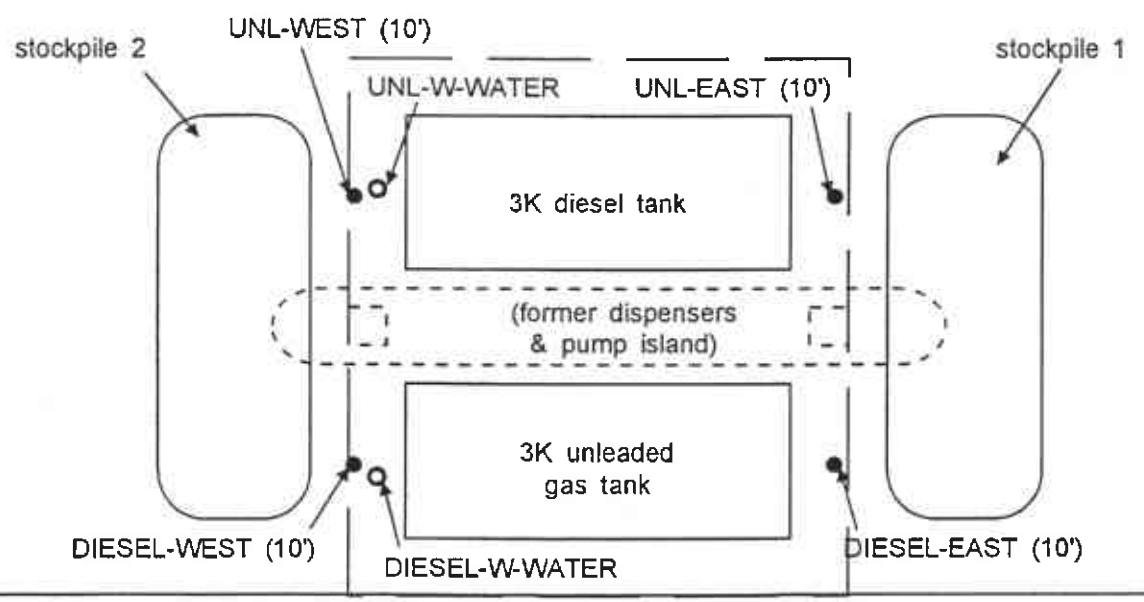


training area

curb

asphalt pavement

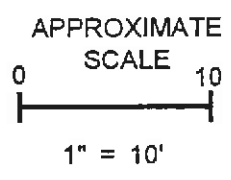
approximate limits  
of excavation



concrete sidewalk

LEGEND

- soil sample (depth)
  - water sample (depth)
- samples collected on 12/3 and 12/4/03



P. G. & E. - Stockton  
7205 National Drive  
Livermore, California


Figure No:  
**1**

Date: December 4, 2003

Drawn By: JG/Geo-Logic

# Site Plan



|   |   |
|---|---|
|  <b>McC Campbell Analytical Inc.</b> | 110 2nd Avenue South, #D7, Pacheco, CA 94551-5560<br>Telephone: 925-798-1620 Fax: 925-798-1622<br>http://www.mcccampbell.com E-mail: mams@mcccampbell.com |
|---|---|

|  |   |                                   |
|--|---|-----------------------------------|
| Geo-Logic<br>1140 5th Avenue<br>Crockett, CA 94525 | Client Project ID: #03-863- PGF-Livermore | Date Sampled: 12/04/03            |
|  |   | Date Received: 12/04/03           |
|  | Client Contact: Joel Greger               | Date Extracted: 12/05/03-12/09/03 |
|  | Client P.O.:                              | Date Analyzed: 12/05/03-12/09/03  |

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

| Lab ID  | Client ID         | Matrix | TPH(g)   | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS  |
|---|-------------------|--------|----------|------|---------|---------|--------------|---------|----|-------|
| 001A  | UNL-West (10')    | S      | ND       | ND   | ND      | ND      | ND           | ND      | 1  | 89.1  |
| 002A  | UNL-East (10')    | S      | ND       | ND   | ND      | ND      | ND           | ND      | 1  | 92.7  |
| 003A  | Diesel-West (10') | S      | ND       | ND   | ND      | ND      | ND           | ND      | 1  | 88.9  |
| 004A  | Diesel-East (10') | S      | ND       | ND   | ND      | ND      | ND           | ND      | 1  | 88.1  |
| 005A  | Diesel-W-Water    | W      | ND,i     | 100  | ND      | ND      | ND           | ND      | 1  | 106   |
| 006A  | UNL-W-Water       | W      | ND<250,j | 7000 | ND<2.5  | ND<2.5  | ND<2.5       | ND<2.5  | 5  | 101   |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
|   |                   |        |          |      |         |         |              |         |    |       |
| Reporting Limit for DF=1:<br>ND means not detected at or<br>above the reporting limit | W                 | S      | 50       | 5.0  | 0.5     | 0.5     | 0.5          | 0.5     | 1  | µg/L  |
|   | S                 |        | 1.0      | 0.05 | 0.005   | 0.005   | 0.005        | 0.005   | 1  | mg/Kg |

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

 110 2nd Avenue South, #D7, Pacheco, CA 94553-5500  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: rmt@mcampbell.com

Geo-Logic

1140 5th Avenue

Crockett, CA 94525

Client Project ID: #03-863- PGE-  
Livermore

Client Contact: Joel Greger

Client P.O.:

Date Sampled: 12/04/03

Date Received: 12/04/03

Date Extracted: 12/04/03

Date Analyzed: 12/05/03

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0312087

| Lab ID  | Client ID         | Matrix | TPH(d)    | DF | % SS  |
|---|-------------------|--------|-----------|----|-------|
| 0312087-003A  | Diesel-West (10') | S      | ND        | 1  | 102   |
| 0312087-004A  | Diesel-East (10') | S      | ND        | 1  | 104   |
| 0312087-005D  | Diesel-W-Water    | W      | 300,h,d,i | 1  | 106   |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
|   |                   |        |           |    |       |
| Reporting Limit for DF = 1;<br>ND means not detected at or<br>above the reporting limit | W                 |        | 50        |    | µg/L  |
|   | S                 |        | 1.0       |    | mg/Kg |

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# clustered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.


DHS Certification No. 1644

Angela Rydelius, Lab Manager

| McC Campbell Analytical Inc.  |   | 110 2nd Avenue South, #D7, Pacheco, CA 94553-5563<br>Telephone: 925-798-1620 Fax: 925-798-1622<br>http://www.mccampbell.com E-mail: main@mccampbell.com |                   |                     |                               |             |
|---|---|---|-------------------|---------------------|-------------------------------|-------------|
| Geo-Logic<br>1140 5th Avenue<br>Crockett, CA 94525  | Client Project ID: #03-863- PGE-<br>Livermore | Date Sampled: 12/04/03  |                   |                     |                               |             |
|   | Client Contact: Joel Greger                   | Date Received: 12/04/03   |                   |                     |                               |             |
|   | Client P.O.:                                  | Date Extracted: 12/04/03  |                   |                     |                               |             |
|   |   | Date Analyzed: 12/05/03   |                   |                     |                               |             |
| <b>Oxygenated Volatile Organics by P&amp;T and GC/MS*</b>   |   |   |                   |                     |                               |             |
| Extraction Method: SW8050B  |   | Analytical Method: SW8260B  |                   | Work Order: 0312087 |                               |             |
| Lab ID  | 0312087-001A                                  | 0312087-002A  | 0312087-003A      | 0312087-004A        | Reporting Limit for<br>DF = 1 |             |
| Client ID   | UNL-West (10')                                | UNL-East (10')  | Diesel-West (10') | Diesel-East (10')   |                               |             |
| Matrix  | S   | S   | S                 | S                   |                               |             |
| DF  | 1   | 1   | 1                 | 1                   |                               |             |
|   |   |   |                   |                     | S                             | W           |
| <b>Compound</b>   | <b>Concentration</b>                          |   |                   |                     | <b>µg/Kg</b>                  | <b>µg/L</b> |
| tert-Amyl methyl ether (TAME)   | ND  | ND  | ND                | ND                  | 5.0                           | NA          |
| t-Butyl alcohol (TBA)   | ND  | ND  | ND                | ND                  | 25                            | NA          |
| Diisopropyl ether (DIPE)  | ND  | ND  | ND                | ND                  | 5.0                           | NA          |
| Ethyl tert-butyl ether (ETBE)   | ND  | ND  | ND                | ND                  | 5.0                           | NA          |
| Methyl-t-butyl ether (MTBE)   | ND  | ND  | ND                | ND                  | 5.0                           | NA          |
| <b>Surrogate Recoveries (%)</b>   |   |   |                   |                     |                               |             |
| %SS:  | 101   | 100   | 99.5              | 100                 |                               |             |
| <b>Comments</b>   |   |   |                   |                     |                               |             |
| * water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L. |   |   |                   |                     |                               |             |
| ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.   |   |   |                   |                     |                               |             |
| # surrogate diluted out of range or surrogate coelutes with another peak.   |   |   |                   |                     |                               |             |
| h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.                 |   |   |                   |                     |                               |             |

DHS Certification No. 1644


 Angela Rydelius, Lab Manager

|   |   |   |                                   |                     |                              |
|---|---|---|-----------------------------------|---------------------|------------------------------|
|  <b>McC Campbell Analytical Inc.</b>   |   | 110 2nd Avenue South, #D7, Pacheco, CA 94553-5500<br>Telephone : 925-798-1620 Fax : 925-798-1622<br>http://www.mcccampbell.com E-mail: main@mcccampbell.com |                                   |                     |                              |
| Geo-Logic<br>1140 5th Avenue<br>Crockett, CA 94525  | Client Project ID: #03-863- PGE-<br>Livermore |   | Date Sampled: 12/04/03            |                     |                              |
|   | Client Contact: Joel Greger                   |   | Date Received: 12/04/03           |                     |                              |
|   | Client P.O.:                                  |   | Date Extracted: 12/05/03-12/08/03 |                     |                              |
|   |   |   | Date Analyzed: 12/05/03-12/08/03  |                     |                              |
| <b>Oxygenated Volatile Organics by P&amp;T and GC/MS*</b>   |   |   |                                   |                     |                              |
| Extraction Method: SW5030B  |   | Analytical Method: SW8260B  |                                   | Work Order: 0312087 |                              |
| Lab ID  | 0312087-005B                                  | 0312087-006B  |                                   |                     | Reporting Limit for<br>DF =1 |
| Client ID   | Diesel-W-Water                                | UNL-W-Water   |                                   |                     |                              |
| Matrix  | W   | W   |                                   |                     |                              |
| DF  | 5   | 200   |                                   |                     |                              |
| <b>Compound</b>   | <b>Concentration</b>                          |   |                                   | <b>ug/kg</b>        | <b>ug/L</b>                  |
| tert-Amyl methyl ether (TAME)   | ND<2.5  | ND<100  |                                   | NA                  | 0.5                          |
| t-Butyl alcohol (TBA)   | 90  | 2200  |                                   | NA                  | 5.0                          |
| Diisopropyl ether (DIPE)  | ND<2.5  | ND<100  |                                   | NA                  | 0.5                          |
| Ethyl tert-butyl ether (ETBE)   | ND<2.5  | ND<100  |                                   | NA                  | 0.5                          |
| Methyl-t-butyl ether (MTBE)   | 150   | 7500  |                                   | NA                  | 0.5                          |
| <b>Surrogate Recoveries (%)</b>   |   |   |                                   |                     |                              |
| %SS:  | 112   | 107   |                                   |                     |                              |
| Comments  | i   |   |                                   |                     |                              |
| * water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in ug/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L. |   |   |                                   |                     |                              |
| ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.   |   |   |                                   |                     |                              |
| # surrogate diluted out of range or surrogate coelutes with another peak.   |   |   |                                   |                     |                              |
| h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.                 |   |   |                                   |                     |                              |

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

|                                     |   |
|-------------------------------------|---|
| <b>McC Campbell Analytical Inc.</b> | 110 2nd Avenue South, #D7, Pacheco, CA 94553-5560<br>Telephone : 925-798-1620 Fax : 925-798-1623<br>http://www.mcccampbell.com E-mail: main@mcccampbell.com |
|-------------------------------------|---|

|  |   |                          |
|--|---|--------------------------|
| Geo-Logic<br><br>1140 5th Avenue<br><br>Crockett, CA 94525 | Client Project ID: #03-863- PGE-Livermore | Date Sampled: 12/04/03   |
|  |   | Date Received: 12/04/03  |
|  | Client Contact: Joel Greger               | Date Extracted: 12/04/03 |
|  | Client P.O.:                              | Date Analyzed: 12/05/03  |

**Lead by ICP\***

Extraction method: SW3050B      Analytical methods: 6010C      Work Order: 0312087

| Lab ID       | Client ID         | Matrix | Extraction | Lead | DF | % SS |
|--------------|-------------------|--------|------------|------|----|------|
| 0312087-001A | UNL-West (10')    | S      | TTLC       | 8.1  | 1  | 101  |
| 0312087-002A | UNL-East (10')    | S      | TTLC       | 7.5  | 1  | 99.9 |
| 0312087-003A | Diescl-West (10') | S      | TTLC       | 9.1  | 1  | 96.1 |
| 0312087-004A | Diescl-East (10') | S      | TTLC       | 8.0  | 1  | 98.9 |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |
|              |                   |        |            |      |    |      |

|   |   |      |     |  |       |
|---|---|------|-----|--|-------|
| Reporting Limit for DF =1:<br>ND means not detected at or above the reporting limit | W | TTLC | NA  |  | mg/L  |
|   | S | TTLC | 5.0 |  | mg/Kg |

\*water/product/oil/non-aqueous liquid samples and all TCLP / STCL / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.


# means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

|  <b>McC Campbell Analytical Inc.</b>   |  |  | 110 2nd Avenue South, #D7, Pacheco CA 94553-5560<br>Telephone: 925-798-1620 Fax: 925-798-1632<br><a href="http://www.mcccampbell.com">http://www.mcccampbell.com</a> E-mail: <a href="mailto:msa@mcccampbell.com">msa@mcccampbell.com</a> |                     |       |      |
|---|--|--|---|---------------------|-------|------|
| <b>Geo-Logic</b><br><br>1140 5th Avenue<br><br>Crockett, CA 94525   | <b>Client Project ID: #03-863- PGE-</b><br><b>Livermore</b><br><br><b>Client Contact: Joel Greger</b><br><br><b>Client P.O.:</b> | <b>Date Sampled: 12/04/03</b><br><b>Date Received: 12/04/03</b><br><b>Date Extracted: 12/04/03</b><br><b>Date Analyzed: 12/05/03</b> |   |                     |       |      |
| <b>Lead by Graphite Furnace Atomic Absorption*</b>  |  |  |   |                     |       |      |
| Extraction method: E200.9   |  | Analytical methods: E200.9   |   | Work Order: 0311087 |       |      |
| Lab ID  | Client ID  | Matrix   | Extraction  | Lead                | DF    | % SS |
| 0312087-005C  | Diesel-W-Water   | W  | TTLC  | 0.065.i             | 4     | N/A  |
| 0312087-006C  | UNL-W-Water  | W  | TTLC  | 0.13                | 10    | N/A  |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
|   |  |  |   |                     |       |      |
| Reporting Limit for DF =1,<br>ND means not detected at or<br>above the reporting limit  |  | W  | TTLC  | 0.005               | mg/L  |      |
|   |  | S  | TTLC  | NA                  | mg/kg |      |
| *water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DSTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg,<br>wipe samples in µg/wipe, filter samples in µg/filter.  |  |  |   |                     |       |      |
| # means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not<br>detected above the reporting limit; N/A means not applicable to this sample or instrument.   |  |  |   |                     |       |      |
| Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010<br>(sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).  |  |  |   |                     |       |      |
| i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can<br>significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y)<br>estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference. |  |  |   |                     |       |      |

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



**McCAMPBELL ANALYTICAL INC.**

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Telephone: (925) 798-1620 Fax: (925) 798-1622

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: *Joel Greger* Bill To: *Paradiso Mechanical*  
 Company: *Geo-Logix* *P.O. B 1836*  
*1140 - 5th Ave.* *2800 Williams St*  
*Crocker-Hart CA 94525* E-Mail: *San Leandro (94527)*  
 Tele: ( ) *510 78 76867* Fax: ( ) *510 78 71457*  
 Project #: *03 863* Project Name: *PE-Livermore*  
 Project Location: *7205 National Dr, Livermore*  
 Sampler Signature: *Joel Greger* F.O.#:

Analysis Request

Other

Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |      | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | BTEX & TPH as Gas (602/8020 + 8015)/MTBE | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | 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 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | Fire Oxygenated by 8260 |  |  |  |  |  |
|---------------------------------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|----------------------|---|--------------------------------------|----------------|----------------------------|----------------|---------------------------|-----------------------|----------------|--|---------------|---------------|-----------------------------|-----|-------------------------|--|--|--|--|--|
|                                 |          | Date     | Time |              |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| UNL-WEST (10')                  | Tank pit | 12-4-03  | 2 PM | 1            | 100ml           | X      |      |     |        |       | X                |     |                  | X     |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| UNL-EAST (10')                  | ↓        | ↓        | ↓    | 1            |                 | X      |      |     |        |       | X                |     |                  | X     |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| Diesel-West (10')               | ↓        | ↓        | ↓    | 1            |                 | X      |      |     |        |       | X                |     |                  | X     |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| Diesel-East (10')               | ↓        | ↓        | ↓    | 1            |                 | X      |      |     |        |       | X                |     |                  | X     |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| Diesel-w-water                  | ↓        | ↓        | 3 PM | 3            | 1/2 L           | X      |      |     |        |       | X                | X   |                  | X     | X  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
| UNL-w-water                     | ↓        | ↓        | 4 PM | 4            | 1/2 L           | X      |      |     |        |       | X                | X   |                  | X     | X  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |
|                                 |          |          |      | 5            | 1/2 L           |        |      |     |        |       |                  |     |                  |       |  |                      |   |                                      |                |                            |                |                           |                       |                |  |               |               |                             |     |                         |  |  |  |  |  |

Relinquished By: *Joel Greger* Date: *12-4-03* Time: *5:15 PM* Received By: *[Signature]*  
 Relinquished By: Date: Time: Received By:  
 Relinquished By: Date: Time: Received By:

ICE/° \_\_\_\_\_ PRESERVATION \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_ APPROPRIATE \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_ CONTAINERS \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_ PERSERVED IN LAB \_\_\_\_\_

VOAS O&G METALS OTHER



McC Campbell Analytical Inc.

110 2nd Avenue South #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Geo-Logic  
 1140 5th Avenue  
 Crockett, CA 94525

Client Project ID: #63-863; PGE-Livermore  
 Client Contact: Joel Greger  
 Client P.O.:

Date Sampled: 12/03/03  
 Date Received: 12/03/03  
 Date Extracted: 12/03/03  
 Date Analyzed: 12/04/03

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

Extraction method: SW503GB Analytical methods: SW8021B/4015Cm Work Order: 0512066

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|--------|-----------|--------|--------|------|---------|---------|--------------|---------|----|------|
| 001A   | Comp S1   | S      | ND     | ND   | ND      | ND      | ND           | ND      | 1  | 101  |
| 002A   | Comp S2   | S      | ND     | ND   | ND      | ND      | ND           | ND      | 1  | 101  |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |

|  |   |     |      |       |       |       |       |       |   |       |
|--|---|-----|------|-------|-------|-------|-------|-------|---|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | NA  | NA   | NA    | NA    | NA    | NA    | NA    | 1 | ug/l. |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 1 | mg/Kg |

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# clustered chromatogram; sample peak coincides with surrogate peak.

\*The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas); m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager





McC Campbell Analytical Inc.

110 2nd Avenue South, #107, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
http://www.mccampbell.com E-mail: mwin@mccampbell.com

|  |   |                          |
|--|---|--------------------------|
| Geo-Logic<br>1140 5th Avenue<br>Crockett, CA 94525 | Client Project ID: #63-863; PGE-Livermore | Date Sampled: 12/03/03   |
|  | Client Contact: Joel Greger               | Date Received: 12/03/03  |
|  | Client P.O.:                              | Date Extracted: 12/03/03 |
|  |   | Date Analyzed: 12/04/03  |

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0312066

| Lab ID       | Client ID | Matrix | TPH(d) | DF | % SS |
|--------------|-----------|--------|--------|----|------|
| 0312066-001A | Comp S1   | S      | ND     | 1  | 97.7 |
| 0312066-002A | Comp S2   | S      | ND     | 1  | 95.2 |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |
|              |           |        |        |    |      |

|   |   |     |       |
|---|---|-----|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | W | NA  | NA    |
|   | S | 1.0 | mg/Kg |


\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# clustered chromatogram resulting in coeluted surrogate and sample peaks, or, surrogate peak is on elevated baseline, or, surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

|   |   |   |                               |                     |  |
|---|---|---|-------------------------------|---------------------|--|
|  McC Campbell Analytical Inc.  |   | 110 2nd Avenue South, #D7, Pacheco, CA 94553-5560<br>Telephone: 925-798-1620 Fax: 925-798-1622<br>http://www.mccampbell.com E-mail: main@mccampbell.com |                               |                     |  |
| Geo-Logic<br>1140 5th Avenue<br>Crocker, CA 94525   | Client Project ID: #63-863; PGE-Livermore |   | Date Sampled: 12/03/03        |                     |  |
|   | Client Contact: Joel Greger               |   | Date Received: 12/03/03       |                     |  |
|   | Client P.O.:                              |   | Date Extracted: 12/03/03      |                     |  |
|   |   |   | Date Analyzed: 12/04/03       |                     |  |
| <b>Oxygenated Volatile Organics by P&amp;T and GC/MS*</b>   |   |   |                               |                     |  |
| Extraction Method: SW5030B  |   | Analytical Method: SW8260B  |                               | Work Order: 0312066 |  |
| Lab ID  | 0312066-001A                              | 0312066-002A  | Reporting Limit for<br>DF = 1 |                     |  |
| Client ID   | Comp S1                                   | Comp S2   |                               |                     |  |
| Matrix  | S   | S   |                               |                     |  |
| DF  | 1   | 1   |                               |                     |  |
| <b>Compound</b>   | <b>Concentration</b>                      |   | <b>µg/Kg</b>                  | <b>µg/L</b>         |  |
| tert-Amyl methyl ether (TAME)   | ND  | ND  | 5.0                           | NA                  |  |
| t-Butyl alcohol (TBA)   | ND  | ND  | 25                            | NA                  |  |
| Diisopropyl ether (DIPE)  | ND  | ND  | 5.0                           | NA                  |  |
| Ethyl tert-butyl ether (ETBE)   | ND  | ND  | 5.0                           | NA                  |  |
| Methyl-t-butyl ether (MTBE)   | ND  | ND  | 5.0                           | NA                  |  |
| <b>Surrogate Recoveries (%)</b>   |   |   |                               |                     |  |
| %SS:  | 95.6                                      | 94.9  |                               |                     |  |
| <b>Comments</b>   |   |   |                               |                     |  |
| * water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L. |   |   |                               |                     |  |
| ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.   |   |   |                               |                     |  |
| # surrogate diluted out of range or surrogate coelutes with another peak.   |   |   |                               |                     |  |
| h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.                 |   |   |                               |                     |  |

DHS Certification No. 1644



Angela Rydelius, Lab Manager

|                                     |  |
|-------------------------------------|--|
| <b>McC Campbell Analytical Inc.</b> | 110 2nd Avenue South, #D7, Pacheco, CA 94553-5560<br>Telephone : 925-798-1620 Fax : 925-798-1622<br><a href="http://www.mcccampbell.com">http://www.mcccampbell.com</a> E-mail: <a href="mailto:matrix@mcccampbell.com">matrix@mcccampbell.com</a> |
|-------------------------------------|--|

|   |   |                          |
|---|---|--------------------------|
| <b>Geo-Logic</b><br><br>1140 5th Avenue<br><br>Crockett, CA 94525 | Client Project ID: #63-863; PGE-Livermore | Date Sampled: 12/03/03   |
|   | Client Contact: Joel Greger               | Date Received: 12/03/03  |
|   | Client P.O.:                              | Date Extracted: 12/03/03 |
|   |   | Date Analyzed: 12/05/03  |

**Lead by ICP\***

Extraction method: SW3050B      Analytical methods: 6010C      Work Order: 0312066

| Lab ID       | Client ID | Matrix | Extraction | Lead | DF | % SS |
|--------------|-----------|--------|------------|------|----|------|
| 0312066-001A | Comp S1   | S      | TTLIC      | ND   | 1  | 103  |
| 0312066-002A | Comp S2   | S      | TTLIC      | 5.3  | 1  | 101  |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |
|              |           |        |            |      |    |      |

|   |        |                |           |               |
|---|--------|----------------|-----------|---------------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W<br>S | TTLIC<br>TTLIC | NA<br>5.0 | mg/L<br>mg/Kg |
|---|--------|----------------|-----------|---------------|

\*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

DHS Certification No. 1644

**Angela Rydelius, Lab Manager**

# McCAMPBELL ANALYTICAL, INC.

110 2<sup>ND</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)

Telephone: (925) 798-1620

Fax: (925) 798-1622

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Joel Greger Bill To: Paradiso Mechanical  
Company: Geo-Logic POB 1836  
1190-5th Ave. 2600 Williams St.  
Crockett CA 94525 E-Mail: San Leandro CA 94577  
Tele: (510) 5435382 Fax: (510) 7871457  
Project #: 03-863 Project Name: PGE-Livermore  
Project Location: 7205 National Drive, Livermore  
Sampler Signature: Joel

Analysis Request

Other Comments

| SAMPLE ID<br>(Field Point Name) | LOCATION  | SAMPLING |         | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | BTEX & TPH as Gas (602/8020 + 8015)/MTBE | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&P/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010/8021 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8081 | EPA 608 / 8082 PCB's ONLY | EPA 8140 / 8141 | EPA 8150 / 8151 | EPA 524.2 / 624 / 8260 | EPA 525 / 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals (6010/ 6020) | LUFT 5 Metals (6010 / 6020) | Lead (200.8 / 200.9 / 6010) | Filter Samples for Metals analysis: Yes / No |  |  |  |  |  |
|---------------------------------|-----------|----------|---------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|----------------------|---|--------------------------------------|---------------------|----------------------------|----------------|---------------------------|-----------------|-----------------|------------------------|----------------------|--|----------------------------|-----------------------------|-----------------------------|--|--|--|--|--|--|
|                                 |           | Date     | Time    |              |                 | Water  | Soil | Air | Sludge | Other | ICE              | HCL | HNO <sub>3</sub> | Other |  |                      |   |                                      |                     |                            |                |                           |                 |                 |                        |                      |  |                            |                             |                             |  |  |  |  |  |  |
| Comp 51                         | stackpile | 12/30/03 | 1:30 pm | 4            | line            | X      |      |     |        |       | X                |     |                  | X     | X  |                      |   |                                      |                     |                            |                |                           |                 |                 |                        |                      |  |                            |                             |                             |  |  |  |  |  |  |
| Comp 52                         | ↓         | ↓        | ↓       | 4            | ↓               | X      |      |     |        |       | X                |     |                  | X     | X  |                      |   |                                      |                     |                            |                |                           |                 |                 |                        |                      |  |                            |                             |                             |  |  |  |  |  |  |

Fuel oxygenated by 8260

Relinquished By: Joel Date: 12/30/03 Time: 2:40 pm Received By: Wanda  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

ICE/I<sup>n</sup> \_\_\_\_\_  
GOOD CONDITION \_\_\_\_\_  
HEAD SPACE ABSENT \_\_\_\_\_  
DECHLORINATED IN LAB \_\_\_\_\_  
APPROPRIATE CONTAINERS \_\_\_\_\_  
PRESERVED IN LAB \_\_\_\_\_

VOAS | O&G | METALS | OTHER  
PRESERVATION

COMMENTS: