



ENVIRONMENTAL
PROTECTION

97 FEB -6 PM 2:50

January 15, 1997

Dale Klettke
Alameda County Department of
Environmental Health
UST Local Oversight Program
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

#515

Re: **Fourth Quarter 1996 Monitoring Report**
3055 22nd Avenue
Oakland, California
Cambria Project #13-105-104

Dear Mr. Klettke:

This report summarizes the fourth quarter 1996 ground water monitoring results for the site referenced above. We also describe the anticipated first quarter 1997 activities and the current hydrocarbon distribution in ground water.

FOURTH QUARTER 1996 ACTIVITIES

Quarterly Ground Water Sampling: On November 27, 1996, Blaine Tech Services, Inc. of San Jose, California (Blaine) collected ground water samples from wells MW-1, MW-2, and MW-3. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons as diesel (TPHd), and methyl tert-butyl ether (MTBE). Blaine also gauged all site wells and checked them for liquid-phase hydrocarbons. No liquid-phase hydrocarbons were detected.

ANTICIPATED FIRST QUARTER 1997 ACTIVITIES

Quarterly Ground Water Sampling: Blaine will gauge all site wells, check the wells for liquid-phase hydrocarbons, and collect water samples from the wells. Cambria will tabulate the data and prepare a quarterly monitoring report.

Additional Subsurface Investigation: As requested in your August 26, 1996 letter to Mr. Lynn Worthington of Golden Empire Properties, Cambria will conduct additional on site investigation to determine the extents of hydrocarbons in soil and ground water on the northwest corner of the referenced site. This investigation has been delayed because the site is too wet for drill rig access at this time. We will drill as soon as the site dries out sufficiently to allow access.

CAMBRIA

ENVIRONMENTAL
TECHNOLOGY, INC.

1144 65TH STREET,

SUITE B

OAKLAND,

CA 94608

PH: (510) 420-0700

FAX: (510) 420-9170

Dale Klettke
January 15, 1997

CAMBRIA

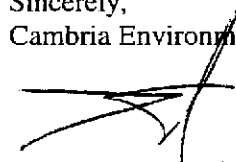
Risk-Based Corrective Action (RBCA) Study: As requested in your August 26, 1996 letter to Mr. Lynn Worthington of Golden Empire Properties, Cambria will perform a RBCA study after collecting soil samples from the additional subsurface investigation described above.

HYDROCARBON DISTRIBUTION IN GROUND WATER

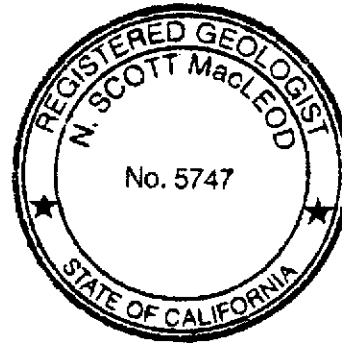
TPHg and benzene were detected in well MW-3, located southwest of the former underground gasoline tanks, at concentrations of 82,000 and 14,000 parts per billion (ppb) respectively (Table 1). Ground water elevations this quarter indicate that ground water flows toward the north (Figure 1).

Please call if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.



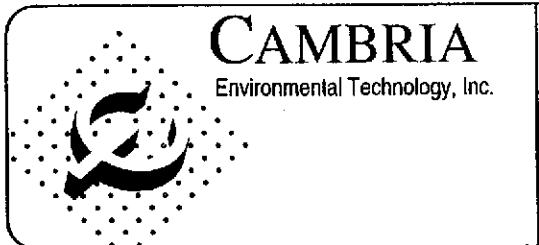
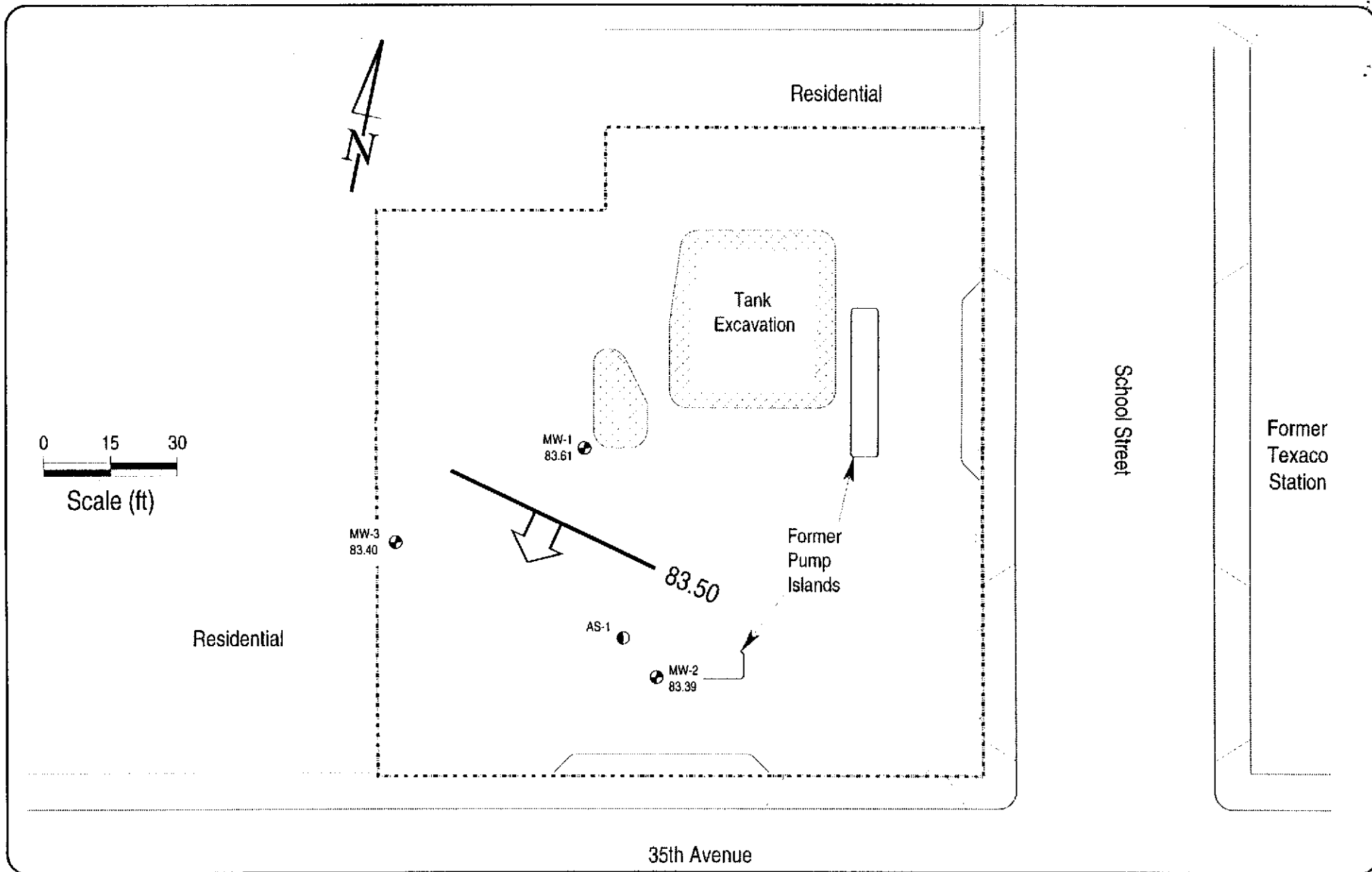
N. Scott MacLeod, R.G.
Principal Geologist



F:\PROJECTS\SB-2004\OAKL-002\QM\QM-4-96.WPD

Attachments: A - Analytic Report for Ground Water Sampling

cc: Lynn Worthington, Gold Empire Properties, Inc., 5942 MacArthur Boulevard, Suite B,
Oakland, CA 94605



CAMBRIA
Environmental Technology, Inc.

EXPLANATION

- MW-3
XX.XX ● Monitoring Well and Ground Water Elevation
- ← Estimated Ground Water Flow Direction
- XX.XX Ground Water Elevation Contour
- AS-1 ● Air Sparge Well

Ground Water Elevations
November 27, 1996

3055 35th Avenue
Oakland, California

FIGURE
1

Table 1. Ground Water Elevation and Analytic Data - 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | LPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|---------------------|-----------------|--------------|--------------|--------------|---------------------------------------|---------------|------------|--------------|--------------|--------------|--------------|------------------|------------|
| (quarters sampled) | | Depth (ft) | (ft) | Elev. (ft) | (concentrations in parts per billion) | | | | | | | | (mg/l) |
| MW-1 | 5/25/94 | 16.79 | Sheen | 84.06 | 120,000 | 25,000 | <50,000 | 22,000 | 17,000 | 2,800 | 16,000 | --- | --- |
| (all) | 7/19/94 | 20.77 | --- | 80.08 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| <i>TOC = 100.85</i> | 8/18/94 | 21.04 | Sheen | 79.81 | 925,000 | --- | --- | 16,500 | 6,200 | 1,000 | 9,400 | --- | --- |
| | 11/11/94 | 15.80 | --- | 85.05 | 57,000 | --- | --- | 14,000 | 4,400 | 1,400 | 6,400 | --- | --- |
| | 2/27/95 | 15.53 | --- | 85.32 | 45,000 | --- | --- | 2,900 | 2,500 | 760 | 4,100 | --- | --- |
| | 5/23/95 | 15.29 | --- | 85.56 | 22,000 | --- | --- | 9,900 | 990 | 790 | 2,000 | --- | --- |
| | 8/22/95 | 20.90 | --- | 79.95 | 23,000 | --- | --- | 6,900 | 340 | 1,200 | 1,900 | --- | --- |
| | 11/29/95 | 22.19 | --- | 78.66 | 37,000 | --- | --- | 9,900 | 530 | 1,600 | 2,900 | --- | --- |
| | 2/21/96 | 11.69 | --- | 89.16 | 33,000 | 4,300 | --- | 10,000 | 480 | 1,000 | 1,800 | 3,300 | --- |
| | 5/21/96 | 14.62 | --- | 86.23 | 36,000 | 8,500 | --- | 8,500 | 1,400 | 1,300 | 2,800 | 1,900 | --- |
| | 8/22/96 | 22.30 | --- | 78.55 | 41,000 | 6,200 | --- | 8,600 | 1,300 | 1,500 | 2,900 | <200 | 8.0 |
| | 11/27/96 | 17.24 | Sheen | 83.61 | 38,000 | 6,100 | --- | 9,600 | 950 | 1,600 | 3,100 | <400 | 5.6 |
| MW-2 | 5/25/94 | 15.65 | --- | 84.35 | 61,000 | 6,900 | <5,000 | 9,900 | 7,400 | 960 | 4,600 | --- | --- |
| (all) | 7/19/94 | 19.81 | --- | 80.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| <i>TOC = 100.00</i> | 8/18/94 | 20.37 | --- | 79.63 | 88,000 | --- | --- | 10,750 | 10,500 | 1,850 | 9,600 | --- | --- |
| | 11/11/94 | 15.52 | --- | 84.48 | 54,000 | --- | --- | 5,900 | 6,700 | 1,300 | 7,500 | --- | --- |
| | 2/27/95 | 14.46 | Sheen | 85.54 | 44,000 | --- | --- | 5,100 | 5,300 | 930 | 6,400 | --- | --- |
| | 5/23/95 | 14.17 | --- | 85.83 | 33,000 | --- | --- | 8,200 | 5,600 | 900 | 6,600 | --- | --- |
| | 8/22/95 | 19.80 | --- | 80.20 | 38,000 | --- | --- | 6,400 | 5,000 | 1,100 | 5,600 | --- | --- |
| | 11/29/95 | 21.05 | --- | 78.95 | 46,000 | --- | --- | 7,100 | 5,300 | 1,300 | 6,000 | --- | --- |
| | 2/21/96 | 10.53 | --- | 89.47 | 59,000 | --- | --- | 8,000 | 6,000 | 1,800 | 8,900 | 4,500 | --- |
| | 5/21/96 | 13.47 | --- | 86.53 | 51,000 | 3,400 | --- | 8,200 | 5,200 | 1,300 | 6,600 | 2,400 | --- |
| | 8/22/96 | 19.12 | --- | 80.88 | 37,000 | 5,700 | --- | 5,100 | 3,500 | 960 | 4,500 | <200 | 3.0 |
| | 11/27/96 | 16.61 | Sheen | 83.39 | 54,000 | 10,000 | --- | 9,800 | 7,000 | 1,800 | 7,900 | <2,000 | 3.1 |

Table 1. Ground Water Elevation and Analytic Data - 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | LPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|--------------------|----------|------------|-------|------------|---------------------------------------|--------|---------|---------|---------|--------------|---------|--------|--------|
| (quarters sampled) | | Depth (ft) | (ft) | Elev. (ft) | (concentrations in parts per billion) | | | | | | | | (mg/l) |
| MW-3 | 5/25/94 | 13.93 | Sheen | 82.94 | 56,000 | 14,000 | <50,000 | 14,000 | 14,000 | 1,300 | 11,000 | --- | --- |
| (all) | 7/19/94 | 17.04 | --- | 79.83 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOC = 96.87 | 8/18/94 | 17.75 | --- | 79.12 | 116,000 | --- | --- | 28,300 | 26,000 | 2,400 | 15,000 | --- | --- |
| | 11/11/94 | 17.80 | --- | 79.07 | 89,000 | --- | --- | 1,600 | 1,900 | 1,900 | 14,000 | --- | --- |
| | 2/27/95 | 11.86 | Sheen | 85.01 | 250,000 | --- | --- | 22,000 | 26,000 | 7,800 | 21,000 | --- | --- |
| | 5/23/95 | 11.60 | Sheen | 85.27 | 310,000 | --- | --- | 18,000 | 17,000 | 4,500 | 2,800 | --- | --- |
| | 8/22/95 | 17.10 | --- | 79.77 | 74,000 | --- | --- | 14,000 | 13,000 | 1,900 | 11,000 | --- | --- |
| | 11/29/95 | 16.34 | --- | 80.53 | 220,000 | --- | --- | 25,000 | 25,000 | 3,500 | 19,000 | --- | --- |
| | 2/21/96 | 7.92 | --- | 88.95 | 60,000 | --- | --- | 10,000 | 7,800 | 1,500 | 8,800 | 3,400 | --- |
| | 5/21/96 | 10.86 | Sheen | 86.01 | 69,000 | 13,000 | --- | 17,000 | 9,400 | 1,700 | 9,400 | 2,600 | --- |
| | 8/22/96 | 16.50 | --- | 80.37 | 94,000 | 16,000 | --- | 17,000 | 15,000 | 2,100 | 12,000 | 330 | 2.0 |
| | 11/27/96 | 13.47 | Sheen | 83.40 | 82,000 | 24,000 | --- | 14,000 | 13,000 | 2,400 | 13,000 | <1,000 | 2.4 |

Notes and Abbreviations

TOC = Top of casing elevation with respect to an onsite benchmark

GW = Ground water

LPH = Liquid-phase hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015

MTBE = Methyl Tertiary-Butyl Ether by modified EPA Method 8020

Benzene, Ethylbenzene, Toluene, and Xylenes by EPA Method 8020

DO = Dissolved oxygen

CAMBRIA

ATTACHMENT A

Analytic Report for Ground Water Sampling



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

John Espinosa
Cambria Env. Technology
1144 65th Street
Suite C
Oakland, CA 94608

Date: 12/12/1996
NET Client Acct. No: 98900
NET Job No: 96.03328
Received: 12/03/1996

Client Reference Information

3055 35th Ave. Oakland, CA./961127-F2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2307.

Note: Blank contamination is not present in the chromatograms for the samples.

Submitted by:

A handwritten signature in cursive script, appearing to read "Judy Ridley", is written over a horizontal line.

Judy Ridley
Project Coordinator

Enclosure(s)

Client Name: Cambria Env. Technology
Client Acct: 98900
NET Job No: 96.03328

Date: 12/12/1996
ELAP Cert: 1386
Page: 2

Ref: 3055 35th Ave. Oakland, CA./961127-F2

SAMPLE DESCRIPTION: MW-1
Date Taken: 11/27/1996
Time Taken: 13:05
NET Sample No: 270741

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|--------|-----------|--------|--------|------------|------------|-----------|
| | | | Limit | Units | | Extracted | Analyzed | Batch No. |
| TPH (Gas/BTEX, Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/10/1996 | 3770 |
| DILUTION FACTOR* | 200 | | | | | | 12/10/1996 | 3770 |
| as Gasoline | 38 | | 10 | mg/L | 5030 | | 12/10/1996 | 3770 |
| 8020 (GC, Liquid) | | | | | | | | |
| Benzene | 9,600 | | 100 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Toluene | 950 | | 100 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Ethylbenzene | 1,600 | | 100 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Xylenes (Total) | 3,100 | | 100 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Methyl-tert-butyl ether | ND | | 400 | ug/L | 8020 | | 12/10/1996 | 3770 |
| SURROGATE RESULTS | | | | | | | | |
| Bromofluorobenzene (SURRE) | 97 | | | % Rec. | 5030 | | 12/10/1996 | 3770 |
| M8015 (EXT., Liquid) | | | | | | | | |
| DILUTION FACTOR* | 4 | | | | | 12/04/1996 | | |
| as Diesel | 6.1 | D-,B-O | 0.2 | mg/L | 3510 | | 12/07/1996 | 1286 |
| SURROGATE RESULTS | | | | | | | | |
| Ortho-terphenyl (SURRE) | 96 | | | % Rec. | 3510 | | 12/07/1996 | 1286 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology
 Client Acct: 98900
 NET Job No: 96.03328

Date: 12/12/1996
 ELAP Cert: 1386
 Page: 3

Ref: 3055 35th Ave. Oakland, CA./961127-F2

SAMPLE DESCRIPTION: MW-2
 Date Taken: 11/27/1996
 Time Taken: 12:40
 NET Sample No: 270742

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|---------------------------|---------|--------|-----------|--------|--------|------------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/10/1996 | 3770 |
| DILUTION FACTOR* | 100 | | | | | | 12/10/1996 | 3770 |
| as Gasoline | 54 | | 5.0 | mg/L | 5030 | | 12/10/1996 | 3770 |
| 8020 (GC,Liquid) | -- | | | | | | 12/10/1996 | 3770 |
| Benzene | 9,800 | FI | 500 | ug/L | 8020 | | 12/11/1996 | 3772 |
| Toluene | 7,000 | FI | 500 | ug/L | 8020 | | 12/11/1996 | 3772 |
| Ethylbenzene | 1,800 | | 50 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Xylenes (Total) | 7,900 | | 50 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Methyl-tert-butyl ether | ND | FI | 2000 | ug/L | 8020 | | 12/11/1996 | 3772 |
| SURROGATE RESULTS | -- | | | | | | 12/10/1996 | 3770 |
| Bromofluorobenzene (SURR) | 95 | | | % Rec. | 5030 | | 12/10/1996 | 3770 |
| M8015 (EXT., Liquid) | | | | | | 12/04/1996 | | |
| DILUTION FACTOR* | 5 | | | | | | 12/07/1996 | 1286 |
| as Diesel | 10 | D-,B-O | 0.2 | mg/L | 3510 | | 12/07/1996 | 1286 |
| SURROGATE RESULTS | -- | | | | | | 12/07/1996 | 1286 |
| Ortho-terphenyl (SURR) | 113 | | | % Rec. | 3510 | | 12/07/1996 | 1286 |

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Client Name: Cambria Env. Technology
 Client Acct: 98900
 NET Job No: 96.03328

Date: 12/12/1996
 ELAP Cert: 1386
 Page: 4

Ref: 3055 35th Ave. Oakland, CA./961127-F2

SAMPLE DESCRIPTION: MW-3
 Date Taken: 11/27/1996
 Time Taken: 12:15
 NET Sample No: 270743

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|---------------------------|---------|--------|-----------|--------|--------|------------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| 5030/M8015 | -- | | | | | | 12/10/1996 | 3769 |
| DILUTION FACTOR* | 100 | | | | | | 12/10/1996 | 3769 |
| as Gasoline | 82 | | 5.0 | mg/L | 5030 | | 12/10/1996 | 3769 |
| 8020 (GC,Liquid) | -- | | | | | | 12/10/1996 | 3769 |
| Benzene | 14,000 | FH | 250 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Toluene | 13,000 | FH | 250 | ug/L | 8020 | | 12/10/1996 | 3770 |
| Ethylbenzene | 2,400 | | 50 | ug/L | 8020 | | 12/10/1996 | 3769 |
| Xylenes (Total) | 13,000 | | 50 | ug/L | 8020 | | 12/10/1996 | 3769 |
| Methyl-tert-butyl ether | ND | FH | 1000 | ug/L | 8020 | | 12/10/1996 | 3770 |
| SURROGATE RESULTS | -- | | | | | | 12/10/1996 | 3769 |
| Bromofluorobenzene (SURR) | 100 | | | % Rec. | 5030 | | 12/10/1996 | 3769 |
| M8015 (EXT., Liquid) | | | | | | 12/04/1996 | | |
| DILUTION FACTOR* | 10 | | | | | | 12/07/1996 | 1286 |
| as Diesel | 24 | D-,B-O | 0.50 | mg/L | 3510 | | 12/07/1996 | 1286 |
| SURROGATE RESULTS | -- | | | | | | 12/07/1996 | 1286 |
| Ortho-terphenyl (SURR) | 93 | | | % Rec. | 3510 | | 12/07/1996 | 1286 |

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Client Name: Cambria Env. Technology
 Client Acct: 98900
 NET Job No: 96.03328

Date: 12/12/1996
 ELAP Cert: 1386
 Page: 5

Ref: 3055 35th Ave. Oakland, CA./961127-F2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV | CCV | Flags | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---------------------------|---------------------|-----------------------|-------|--------|---------------|------------------|------------------|
| | Standard % Recovery | Standard Amount Found | | | | | |
| TPH (Gas/BTXE, Liquid) | | | | | | | |
| as Gasoline | 104.6 | 0.523 | 0.50 | mg/L | 12/10/1996 | cjy | 3770 |
| Benzene | 110.0 | 22.00 | 20.0 | ug/L | 12/10/1996 | cjy | 3770 |
| Toluene | 104.8 | 20.96 | 20.0 | ug/L | 12/10/1996 | cjy | 3770 |
| Ethylbenzene | 106.7 | 21.33 | 20.0 | ug/L | 12/10/1996 | cjy | 3770 |
| Xylenes (Total) | 102.2 | 61.32 | 60.0 | ug/L | 12/10/1996 | cjy | 3770 |
| Methyl-tert-butyl ether | 95.7 | 76.56 | 80.0 | ug/L | 12/10/1996 | cjy | 3770 |
| Bromofluorobenzene (SURR) | 102.0 | 102 | 100 | % Rec. | 12/10/1996 | cjy | 3770 |
| TPH (Gas/BTXE, Liquid) | | | | | | | |
| as Gasoline | 106.0 | 0.530 | 0.50 | mg/L | 12/11/1996 | cjy | 3772 |
| Benzene | 111.2 | 22.23 | 20.0 | ug/L | 12/11/1996 | cjy | 3772 |
| Toluene | 105.3 | 21.06 | 20.0 | ug/L | 12/11/1996 | cjy | 3772 |
| Ethylbenzene | 107.0 | 21.40 | 20.0 | ug/L | 12/11/1996 | cjy | 3772 |
| Xylenes (Total) | 102.7 | 61.64 | 60.0 | ug/L | 12/11/1996 | cjy | 3772 |
| Methyl-tert-butyl ether | 95.8 | 76.63 | 80.0 | ug/L | 12/11/1996 | cjy | 3772 |
| Bromofluorobenzene (SURR) | 103.0 | 103 | 100 | % Rec. | 12/11/1996 | cjy | 3772 |
| M8015 (EXT., Liquid) | | | | | | | |
| as Diesel | 108.8 | 1088 | 1000 | mg/L | 12/06/1996 | vah | 1286 |
| Ortho-terphenyl (SURR) | 109.0 | 109 | 100 | % Rec. | 12/06/1996 | vah | 1286 |
| M8015 (EXT., Liquid) | | | | | | | |
| as Diesel | 102.8 | 1028 | 1000 | mg/L | 12/06/1996 | vah | 1286 |
| Ortho-terphenyl (SURR) | 94.0 | 94 | 100 | % Rec. | 12/06/1996 | vah | 1286 |
| M8015 (EXT., Liquid) | | | | | | | |
| as Diesel | 106.8 | 1068 | 1000 | mg/L | 12/07/1996 | vah | 1286 |
| Ortho-terphenyl (SURR) | 97.0 | 97 | 100 | % Rec. | 12/07/1996 | vah | 1286 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology
Client Acct: 98900
NET Job No: 96.03328

Date: 12/12/1996
ELAP Cert: 1386
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Ref: 3055 35th Ave. Oakland, CA./961127-F2

METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Flags | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---------------------------|------------------------------------|--------------------|-------|--------|------------------|---------------------|------------------------|
| TPH (Gas/BTXE, Liquid) | | | | | | | |
| as Gasoline | ND | 0.050 | | mg/L | 12/10/1996 | cjy | 3770 |
| Benzene | ND | 0.50 | | ug/L | 12/10/1996 | cjy | 3770 |
| Toluene | ND | 0.50 | | ug/L | 12/10/1996 | cjy | 3770 |
| Ethylbenzene | ND | 0.50 | | ug/L | 12/10/1996 | cjy | 3770 |
| Xylenes (Total) | ND | 0.50 | | ug/L | 12/10/1996 | cjy | 3770 |
| Methyl-tert-butyl ether | ND | 2.0 | | ug/L | 12/10/1996 | cjy | 3770 |
| Bromofluorobenzene (SURR) | 103 | | | % Rec. | 12/10/1996 | cjy | 3770 |
| TPH (Gas/BTXE, Liquid) | | | | | | | |
| as Gasoline | ND | 0.050 | | mg/L | 12/11/1996 | cjy | 3772 |
| Benzene | ND | 0.50 | | ug/L | 12/11/1996 | cjy | 3772 |
| Toluene | ND | 0.50 | | ug/L | 12/11/1996 | cjy | 3772 |
| Ethylbenzene | ND | 0.50 | | ug/L | 12/11/1996 | cjy | 3772 |
| Xylenes (Total) | ND | 0.50 | | ug/L | 12/11/1996 | cjy | 3772 |
| Methyl-tert-butyl ether | ND | 2.0 | | ug/L | 12/11/1996 | cjy | 3772 |
| Bromofluorobenzene (SURR) | 107 | | | % Rec. | 12/11/1996 | cjy | 3772 |
| M8015 (EXT., Liquid) | | | | | | | |
| as Diesel | 0.08 | 0.050 | B-O | mg/L | 12/06/1996 | vah | 1286 |
| Ortho-terphenyl (SURR) | 101 | | | % Rec. | 12/06/1996 | vah | 1286 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology
 Client Acct: 98900
 NET Job No: 96.03328

Date: 12/12/1996
 ELAP Cert: 1386
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Ref: 3055 35th Ave. Oakland, CA./961127-F2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike | | | | Sample Conc. | Matrix Spike | | | Units | Date Analyzed | Run Batch | Sample Spiked |
|---------------------------|---------------------|------------------|-----|--------------|--------------|--------------------|------------|---------|--------|---------------|-----------|---------------|
| | Matrix Spike % Rec. | Spike Dup % Rec. | RPD | Spike Amount | | Matrix Spike Conc. | Dup. Conc. | Flags | | | | |
| TPH (Gas/BTXE, Liquid) | | | | | | | | | | | | 270773 |
| as Gasoline | 94.0 | 91.8 | 2.4 | 0.50 | ND | 0.470 | 0.459 | | mg/L | 12/10/1996 | 3770 | 270773 |
| Benzene | 99.6 | 97.6 | 2.0 | 4.94 | ND | 4.92 | 4.82 | | ug/L | 12/10/1996 | 3770 | 270773 |
| Toluene | 91.1 | 91.0 | 0.1 | 42.99 | ND | 39.16 | 39.10 | | ug/L | 12/10/1996 | 3770 | 270773 |
| Bromofluorobenzene (SURR) | 103.0 | 101.0 | 2.0 | 100 | 105 | 103 | 101 | | % Rec. | 12/10/1996 | 3770 | 270773 |
| TPH (Gas/BTXE, Liquid) | | | | | | | | | | | | 270779 |
| as Gasoline | 103.0 | 106.2 | 3.1 | 0.50 | 0.09 | 0.605 | 0.621 | | mg/L | 12/11/1996 | 3772 | 270779 |
| Benzene | 107.1 | 109.5 | 2.2 | 4.95 | ND | 5.30 | 5.42 | | ug/L | 12/11/1996 | 3772 | 270779 |
| Toluene | 104.5 | 106.9 | 2.3 | 42.92 | ND | 44.87 | 45.89 | | ug/L | 12/11/1996 | 3772 | 270779 |
| Bromofluorobenzene (SURR) | 102.0 | 107.0 | 4.8 | 100 | 97 | 102 | 107 | | % Rec. | 12/11/1996 | 3772 | 270779 |
| M8015 (EXT., Liquid) | | | | | | | | | | | | 270737 |
| as Diesel | 94.8 | 93.8 | 1.1 | 1.92 | 0.22 | 2.04 | 2.02 | DH, B-O | mg/L | 12/06/1996 | 1286 | 270737 |
| Ortho-terphenyl (SURR) | 108.0 | 106.0 | 1.9 | 100 | 106 | 108 | 106 | | % Rec. | 12/06/1996 | 1286 | 270737 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology

Date: 12/12/1996

Client Acct: 98900

ELAP Cert: 1386

NET Job No: 96.03328

Page: 8

Ref: 3055 35th Ave. Oakland, CA./961127-F2

LABORATORY CONTROL SAMPLE REPORT

| Parameter | DUP | | RPD | DUP | | | Flags | Units | Date Analyzed | Analyst Initials | Run Batch |
|-----------------------------------|------------|------------|-----|------------------|------------------|-----------------|-------|--------|---------------|------------------|-----------|
| | LCS % Rec. | LCS % Rec. | | LCS Amount Found | LCS Amount Found | LCS Amount Exp. | | | | | |
| M8015 (EXT., Liquid) as Diesel | 95.0 | | | 0.95 | | 1.00 | | mg/L | 12/06/1996 | vah | 1286 |
| Ortho-terphenyl (SURR) | 104.0 | | | 104 | | 100 | | % Rec. | 12/06/1996 | vah | 1286 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

BLAINE TECH SERVICES INC

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

2444
DHS #

CONDUCT ANALYSIS TO DETECT

LAB NET

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice & Report to Cambria. Attn: Paul White

CHAIN OF CUSTODY
961127-F2
CLIENT *Cambria Environmental*
SITE *3055 35th Ave OAKLAND CA*

C = COMPOSITE ALL CONTAINERS

TPH-GAS, BTEX
TPH-DIESEL
MTBE

| SAMPLE I.D. | DATE | TIME | MATRIX | CONTAINERS | | C | TPH-GAS, BTEX | TPH-DIESEL | MTBE | ADDL INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-------------|-------|------|---------------------|------------|------|---|---------------|------------|------|------------------|--------|-----------|--------------|
| | | | S = SOIL W = H2O | TOTAL | | | | | | | | | |
| MW-1 | 11/27 | 1305 | W | 5 | 1305 | | X | X | X | | | | |
| MW-2 | 11/27 | 1240 | W | 5 | 1240 | | X | X | X | | | | |
| MW-3 | 11/27 | 1215 | W | 5 | 1215 | | X | X | X | | | | |

CUSTODY SEALED
Date 12/2/96 Time 1650 Initials CS
SEAL INTACT?
Yes No Initials JB

SAMPLING COMPLETED DATE 11/27/96 TIME 1305 SAMPLING PERFORMED BY Tim Graf RESULTS NEEDED NO LATER THAN "AS Contracted"

RELEASED BY Tim Graf DATE 12-2-96 TIME 1055 RECEIVED BY P. Smart DATE 12/2/96 TIME 1055

RELEASED BY P. Smart DATE 12/2/96 TIME 1650 RECEIVED BY Phil Drossen DATE 12/2/96 TIME 0830

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ DATE SENT _____ TIME SENT _____ COOLER # _____ TEMP.: 0.0°C VIA ACS

KEY TO RESULT FLAGS

- * : RPD between sample duplicates exceeds 30%.
- *M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HT : Analysis performed outside of the method specified holding time.
- HTC : Confirmation analyzed outside of the method specified holding time.
- HTP : Prep procedure performed outside of the method specified holding time.
- HTR : Received after holding time expired, analyzed ASAP after receipt.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P : There is >40% difference between primary and confirmation analysis.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.