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**C A M B R I A**

October 25, 2006

Mr. Jerry Wickham  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**RE: Groundwater Monitoring Report - Third Quarter 2006**  
Chiu Property  
800 Franklin Street, Oakland, California 94607  
STID No. 37; Cambria Project No. 589-1000



Dear Mr. Wickham:

On behalf of Mr. Tommy Chiu, Cambria Environmental Technology, Inc (Cambria) is submitting the *Groundwater Monitoring Report – Third Quarter 2006*. Presented in the report are the third quarter 2006 activities and results, and activities anticipated to be completed by the end of first quarter 2007. The subject site is monitored on a semi-annual schedule during the first and third quarters.

If you have any questions or comments regarding this report, please call me at (510) 420-3307.

Sincerely,  
**Cambria Environmental Technology, Inc.**

Mark Jonas, P.G.  
Senior Project Manager



Enclosure: *Groundwater Monitoring Report – Third Quarter 2006*

cc: Ms. Anny Chiu, P.O. Box 28194, Oakland, California 94606

GROUNDWATER MONITORING REPORT – THIRD QUARTER 2006

Chiu Property  
800 Franklin Street  
Oakland, California  
STID No. 37  
Cambria Project No. 589-1000

October 25, 2006

*Prepared for:*

Mr. Tommy Chiu  
P.O. Box 28194  
Oakland, California 94606

*Prepared by:*

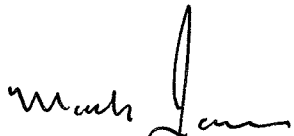
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

*Written by:*



Glenn Reiss  
Senior Staff Geologist

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Mark Jonas, P.G.  
Senior Project Manager



## GROUNDWATER MONITORING REPORT - THIRD QUARTER 2006

Chiu Property  
800 Franklin Street  
Oakland, California  
STID No. 37  
Cambria Project No. 589-1000

October 25, 2006

### INTRODUCTION



This report describes the third quarter 2006 groundwater monitoring activities performed at 800 Franklin Street, Oakland, California (Figure 1). This groundwater monitoring event was conducted at the request of the Alameda County Department of Environmental Health (ACEH). This report presents a summary of third quarter 2006 activities, monitoring results, and activities anticipated to be completed by the end of first quarter 2007.

### THIRD QUARTER 2006 ACTIVITIES

#### Monitoring Activities

On September 15, 2006, Muskan Environmental Sampling (MES) conducted quarterly groundwater monitoring activities at the site. MES measured groundwater levels and collected groundwater samples from monitoring wells MW-1, MW-2, MW-4, MW-5, and MW-6 (Figure 2). Well MW-3 was inaccessible and therefore could not be monitored. Copies of the field data sheets are included as Appendix A.

**Water Level Measurements:** Depth to groundwater measurements were recorded to the nearest 0.01 foot, relative to a previously established reference elevation. Measurements were collected using an electric, conductance-actuated well sounder. The groundwater elevation and depth data are presented in Table 1.

**Groundwater Sampling:** MES collected groundwater samples from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Field activities associated with groundwater sampling included well purging, measuring groundwater parameters, sample collection, and equipment decontamination. See the field data sheets in Appendix A.

Prior to sampling, each monitoring well was purged. MES purged three well-casing volumes of groundwater from each monitoring well. Field measurements of pH, specific conductance, and temperature of purged groundwater were measured after the extraction of each successive casing volume. Well purging continued until consecutive pH, specific conductance, and temperature measurements appeared to stabilize. Field measurements, purge volumes, and sample collection data were recorded on field sampling data sheets, presented in Appendix A.

Groundwater samples were collected from each of the accessible wells using new disposable bailers. The samples were decanted from the bailers into 1-liter (L) amber glass containers and 40-milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Samples were labeled, placed in protective foam sleeves, stored on crushed, water-based ice at or below 4 degrees Celsius (°C) and transported under a chain-of-custody (COC) to the laboratory. The COC used for this monitoring event is provided in Appendix B.

**Equipment Decontamination:** To minimize the potential for cross-contamination, the groundwater monitoring equipment was decontaminated prior to being deployed in the first monitoring well and between successive wells. The probe of the electric well sounder used for water level measurements was rinsed thoroughly with distilled water prior to first use and between subsequent water level measurements. The disposable bailers were discarded after use at each well.

**Sample Analysis:** Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method SW8015C. Samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method SW8021B. In addition, groundwater samples were analyzed for TPH as diesel (TPHd) and as motor oil (TPHmo) by EPA Method SW8015C with silica gel cleanup, and chloroform and 1,2-dichloroethane (1,2-DCA) by EPA Method SW8260B. The analyses were performed by McCampbell. The laboratory analytical report is included in Appendix B. Groundwater analytical results are summarized on Figure 2 and presented in Table 1.

## Monitoring Results

**Groundwater Flow Direction and Gradient:** Depth-to-water measurements collected on September 15, 2006 ranged from 21.16 to 22.46 feet below top of casing (TOC). Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed TOC elevations. The groundwater elevations were plotted on a site plan and contoured. Based on depth-to-water data collected during the site visit, groundwater appears to flow towards the northwest at a gradient of 0.009 feet/foot. Depth-to-water and groundwater elevation data for the site are summarized in Table 1 and presented on Figure 2.

**Groundwater Analytical Results:** During the third quarter 2006 TPHd, TPHmo, chloroform, and 1,2-DCA were added to the sampling protocol as contaminants of potential concern. Hydrocarbons were detected in the five wells sampled during the third quarter 2006, as follows:

- TPHg and BTEX were detected in the samples collected from wells MW-2 and MW-6. The maximum TPHg and BTEX concentrations were detected in well MW-2 at 43,000 micrograms per liter ( $\mu\text{g/L}$ ), 1,600  $\mu\text{g/L}$ , 4,400  $\mu\text{g/L}$ , 1,100  $\mu\text{g/L}$ , and 5,100  $\mu\text{g/L}$ , respectively. The TPHg and BTEX concentrations detected in well MW-6 were 1,800  $\mu\text{g/L}$ , 10  $\mu\text{g/L}$ , 6.7  $\mu\text{g/L}$ , 9.9  $\mu\text{g/L}$  and 42  $\mu\text{g/L}$ , respectively. The laboratory noted that unmodified or weakly modified gasoline is significant in samples collected from wells MW-2 and MW-6.
- No MTBE was detected above laboratory reporting limits in any of the wells.
- TPHd range hydrocarbons were detected in samples from wells MW-2 and MW-6 at concentrations of 3,100  $\mu\text{g/L}$  and 480  $\mu\text{g/L}$ , respectively. However, the laboratory noted that the TPH chromatogram suggested gasoline range compounds were significant in these samples.
- No TPHmo was detected above laboratory reporting limits in any of the wells.
- Chloroform was detected in all (MW 1, MW-2, MW-4, MW-5, and MW-6) of the five wells sampled during the third quarter 2006 event. The maximum chloroform concentration was detected in well MW-4 at 28  $\mu\text{g/L}$ . All the detected chloroform concentrations were well below chloroform's Environmental Screening Level (ESL) for a potential drinking water resource, which is 70  $\mu\text{g/L}$ .
- No 1,2-DCA was detected above laboratory reporting limits in any of the wells.

No other hydrocarbon concentrations were detected above laboratory reporting limits (Table 1, Appendix B).

### Waste Disposal

On September 15, 2006, approximately 30 gallons of drummed purged groundwater from the third quarter 2006 monitoring event was transported for disposal by Evergreen Environmental Services to Evergreen Oil, Inc. in Newark, California. A copy of the Non-Hazardous Waste Manifest for disposal of purge water generated in the third quarter 2006 monitoring event will be provided in the *Groundwater Monitoring Report – First Quarter 2007*.

### GeoTracker Submittals

Cambria uploaded relevant data to the GeoTracker database on behalf of Mr. Tommy Chiu. Cambria has uploaded third quarter 2006 groundwater depth data, analytical results, and this report to the State's GeoTracker database.

### Approved Work Plan

In response to ACEH technical comments, Cambria submitted *Response to Agency Comments and Work Plan* (Work Plan), dated July 24, 2006. ACEH granted conditional approval of the Work Plan in an August 8, 2006 letter. The scope of approved work includes rebuilding inaccessible well MW-3, soil vapor sampling, and preparation of a report that will describe these activities and their results.



## ANTICIPATED FIRST QUARTER 2007 ACTIVITIES

### Monitoring Activities

As approved by ACDEH the subject site will be monitored semi-annually during first and third quarters. Cambria will measure water levels and collect groundwater samples from wells MW-1 through MW-6. Groundwater samples will be analyzed for TPHd and TPHmo with silica gel cleanup and TPHg by modified EPA Method SW8015C; BTEX and MTBE by EPA Method SW8021B, and chloroform and 1,2-DCA by EPA Method SW8260B. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.

## ATTACHMENTS

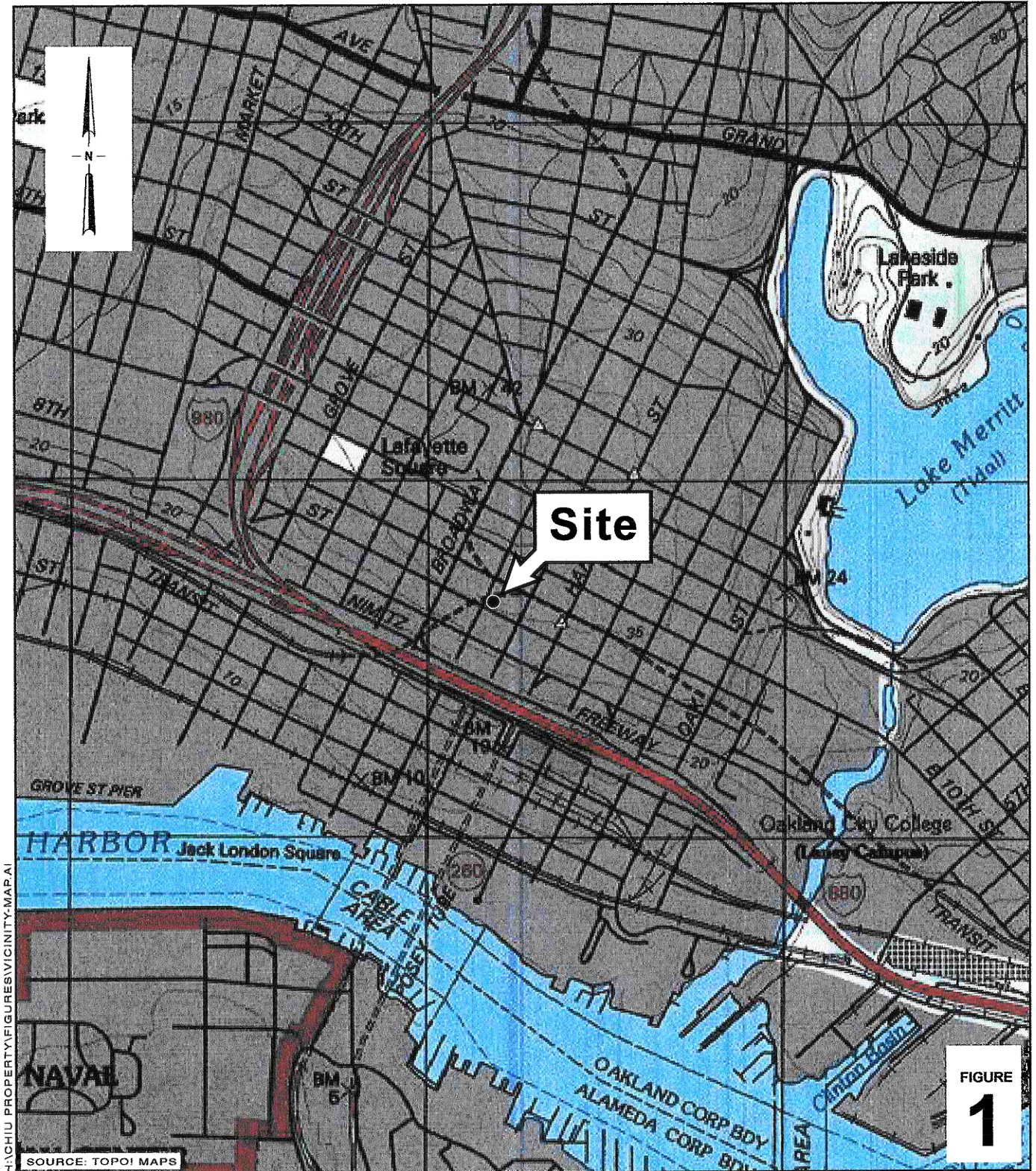
Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map

Table 1 – Groundwater Analytical and Elevation Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report



H:\CHIU PROPERTY\FIGURES\VICINITY-MAP.A1

SOURCE: TOPO! MAPS

FIGURE 1

0 1/8 1/4 1/2 1

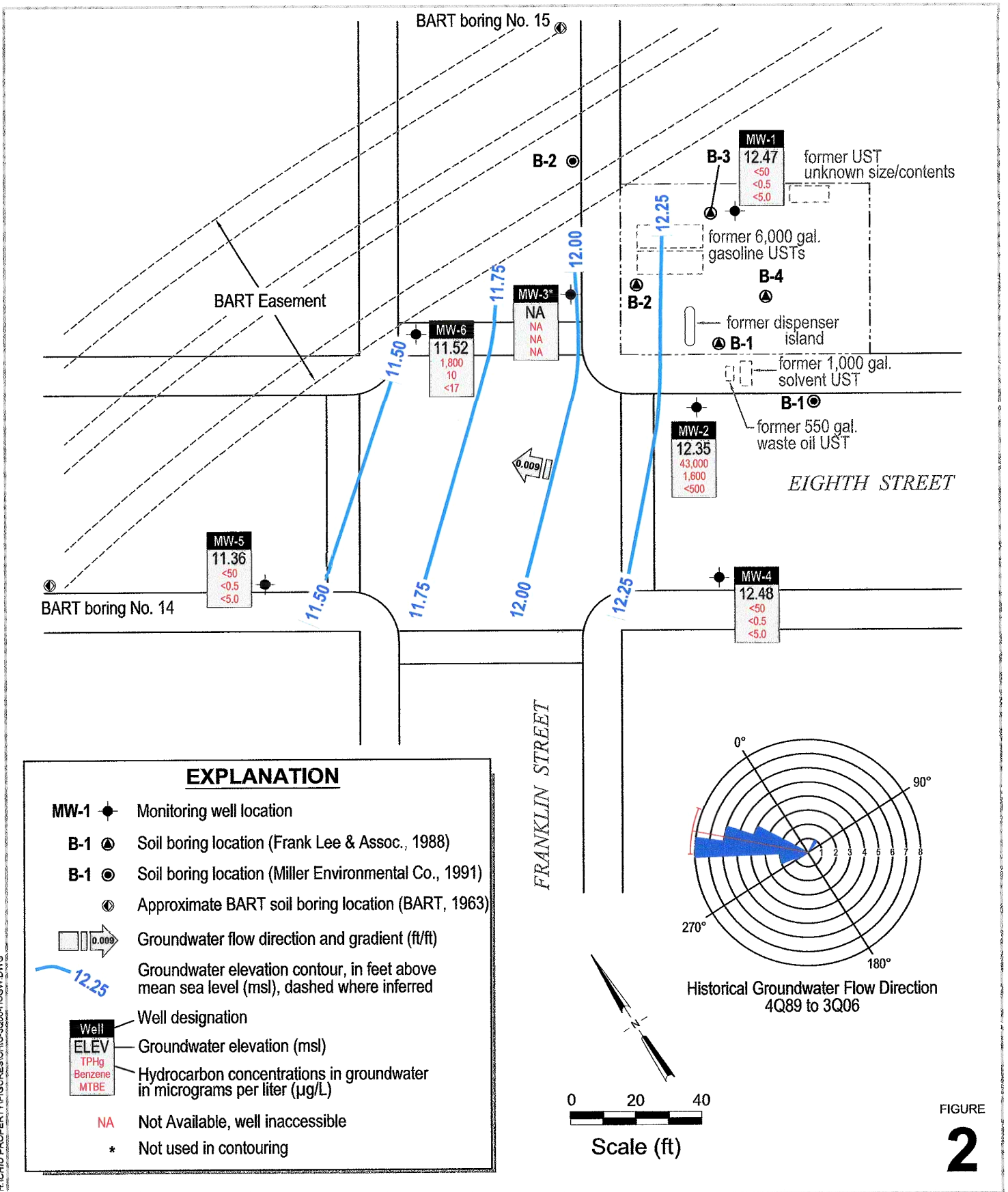
SCALE : 1" = 1/4 MILE

**Chiu Property**  
 800 Franklin Street  
 Oakland, California



C A M B R I A

**Vicinity Map**



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**Chiu Property**  
 800 Franklin Street  
 Oakland, California



C A M B R I A

**Groundwater Elevation Contour and Hydrocarbon Concentration Map**

September 15, 2006



# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California**

| Well ID<br>TOC Elevation<br>(ft amsl)         | Date<br>Sampled        | Depth<br>to Water<br>(ft below TOC) | Groundwater<br>Elevation<br>(feet amsl) | ←-----µg/L-----→ |       |        |         |         |              |         |        |            |         |
|---|------------------------|-------------------------------------|---|------------------|-------|--------|---------|---------|--------------|---------|--------|------------|---------|
|   |                        |                                     |   | TPHg             | TPHd  | TPHmo  | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE   | Chloroform | 1,2-DCA |
| ESLs for a potential drinking water resource: |                        |                                     |   | 100              | 100   | 100    | 1.0     | 40      | 30           | 20      | 5.0    | 70         | 0.5     |
| MW-1  | 10/12/1989†            | 22.87                               | 10.55                                   | ND               | --    | --     | ND      | ND      | ND           | ND      | --     | 0.8        | 8.6     |
| 33.42   | 10/31/1991             | --                                  | --                                      | 630              | 960   | 1,700  | 3.2     | ND<0.5  | ND<0.5       | 130     | --     | --         | 9.8     |
| 34.89   | 10/21/1992             | 23.48                               | 11.41                                   | 520              | --    | --     | 78      | 38      | ND<0.5       | 120     | --     | --         | --      |
|   | 2/25/1993              | 22.51                               | 12.38                                   | 1,600            | --    | --     | 160     | 190     | 34           | 350     | --     | --         | --      |
|   | 4/27/1993              | 22.36                               | 12.53                                   | 380              | --    | --     | 5.2     | ND<0.5  | ND<0.5       | 74      | --     | --         | --      |
|   | 10/7/1993              | --                                  | 12.10                                   | 1,000            | --    | --     | 81      | 150     | 47           | 230     | --     | --         | --      |
| 33.98   | 3/28/1994              | --                                  | 11.91                                   | 460              | --    | --     | 14      | 25      | 14           | 39      | --     | --         | --      |
|   | 4/29/1994              | --                                  | --                                      | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 6/10/1994              | --                                  | 11.66                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 7/8/1994               | --                                  | 11.62                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 7/26/1994              | --                                  | 11.48                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 8/25/1994              | --                                  | 11.47                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 10/27/1994             | 22.51                               | 11.47                                   | ND<50            | --    | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | --     | --         | --      |
|   | 1/6/1995               | --                                  | 12.08                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 2/1/1995               | --                                  | 12.79                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 3/29/1995              | --                                  | 12.75                                   | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 10/31/1995             | --                                  | 12.48                                   | 1,400            | --    | --     | 15      | 38      | 49           | 510     | 19     | --         | --      |
|   | 5/21/1997              | --                                  | 12.49                                   | 150              | --    | --     | 2.9     | 1.5     | 8.6          | 26      | ND<5.0 | --         | --      |
|   | 8/10/2004              | 23.35                               | 10.63                                   | ND<50            | --    | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 9/28/2004 <sup>+</sup> | --                                  | --                                      | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 12/21/2004             | 22.93                               | 11.05                                   | ND<50            | --    | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 3/11/2005 <sup>+</sup> | --                                  | --                                      | --               | --    | --     | --      | --      | --           | --      | --     | --         | --      |
|   | 6/16/2005              | 20.68                               | 13.30                                   | ND<50            | --    | --     | 0.64    | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 9/1/2005               | 20.74                               | 13.24                                   | ND<50            | --    | --     | 1.2     | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 12/16/2005             | 20.95                               | 13.03                                   | ND<50            | --    | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 3/10/2006              | 20.34                               | 13.64                                   | ND<50            | --    | --     | 0.60    | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|   | 9/15/2006              | 21.51                               | 12.47                                   | ND<50            | ND<50 | ND<250 | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | 6.4        | ND<0.5  |

# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California**

| Well ID                                       | Date        | Depth | Groundwater | µg/L                       |           |                            |                          |        |       |        |          |         |              |
|---|-------------|-------|-------------|----------------------------|-----------|----------------------------|--------------------------|--------|-------|--------|----------|---------|--------------|
|   |             |       |             | TOC Elevation<br>(ft amsl) | Sampled   | to Water<br>(ft below TOC) | Elevation<br>(feet amsl) | TPHg   | TPHd  | TPHmo  | Benzene  | Toluene | Ethylbenzene |
| ESLs for a potential drinking water resource: |             |       |             | 100                        | 100       | 100                        | 1.0                      | 40     | 30    | 20     | 5.0      | 70      | 0.5          |
| MW-2  | 10/12/1989† | 23.25 | 10.40       | 38,000                     | --        | 3,900                      | 1,300                    | 1,200  | ND    | 4,700  | --       | --      | --           |
| 33.66   | 10/31/1991  | --    | --          | 10,000                     | 1,500     | --                         | 1,800                    | 1,200  | 270   | 960    | --       | --      | 170          |
|   | 11/6/1991   | 24.02 | 9.64        | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 10/21/1992  | 22.42 | 11.24       | 270,000                    | --        | --                         | 9,700                    | 4,500  | 9,600 | 56,000 | --       | --      | --           |
|   | 2/25/1993   | 21.50 | 12.16       | 49,000                     | --        | --                         | 4,300                    | 11,000 | 1,300 | 9,100  | --       | --      | --           |
|   | 4/27/1993   | 21.26 | 12.40       | 39,000                     | --        | --                         | 1,400                    | 4,000  | 220   | 5,200  | --       | --      | --           |
|   | 10/7/1993   | --    | 12.04       | 50,000                     | --        | --                         | 2,700                    | 8,100  | 940   | 7,800  | --       | --      | --           |
|   | 3/28/1994   | --    | 11.88       | 20,000                     | --        | --                         | 360                      | 1,300  | 220   | 1,800  | --       | --      | --           |
|   | 4/29/1994   | --    | 11.87       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 6/10/1994   | --    | 11.44       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 7/8/1994    | --    | 11.42       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 7/26/1994   | --    | 11.22       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 8/25/1994   | --    | 11.01       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 10/27/1994  | 22.66 | 11.00       | 21,000                     | --        | --                         | 1,200                    | 3,700  | 600   | 4,300  | --       | --      | --           |
|   | 1/6/1995    | --    | 11.66       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 2/1/1995    | --    | 12.21       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 3/29/1995   | --    | 12.66       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 10/31/1995  | --    | 11.51       | 45,000                     | --        | --                         | 3,100                    | 8,800  | 1,200 | 8,400  | 810      | --      | --           |
|   | 5/21/1997   | --    | 12.65       | 18,000                     | --        | --                         | 1,400                    | 4,200  | 680   | 3,600  | 370      | --      | --           |
|   | 8/10/2004   | 21.03 | 12.63       | 47,000 (a)                 | --        | --                         | 4,200                    | 4,900  | 1,400 | 6,000  | ND<500   | --      | --           |
|   | 9/28/2004   | 22.95 | 10.71       | --                         | --        | --                         | --                       | --     | --    | --     | --       | --      | --           |
|   | 12/21/2004  | 20.91 | 12.75       | 13,000 (a)                 | --        | --                         | 500                      | 310    | 34    | 1600   | ND<100   | --      | --           |
|   | 3/11/2005   | 11.35 | 22.31       | 32,000 (a)                 | --        | --                         | 970                      | 2,400  | 890   | 4,200  | ND<1,000 | --      | --           |
|   | 6/16/2005   | 20.50 | 13.16       | 43,000 (a,i)               | --        | --                         | 1,500                    | 3,400  | 1,200 | 5,400  | ND<1,200 | --      | --           |
|   | 9/1/2005    | 20.60 | 13.06       | 20,000 (a)                 | --        | --                         | 640                      | 1,700  | 460   | 2,200  | ND<200   | --      | --           |
|   | 12/16/2005  | 20.83 | 12.83       | 32,000 (a,i)               | --        | --                         | 1,000                    | 3,100  | 760   | 3,800  | ND<500   | --      | --           |
|   | 3/10/2006   | 20.05 | 13.61       | 20,000 (a)                 | --        | --                         | 460                      | 1,900  | 440   | 2,400  | ND<400   | --      | --           |
|   | 9/15/2006   | 21.31 | 12.35       | 43,000 (a)                 | 3,100 (d) | ND<250                     | 1,600                    | 4,400  | 1,100 | 5,100  | ND<500   | 16      | ND<10        |

# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California**

| Well ID<br>TOC Elevation<br>(ft amsl)         | Date<br>Sampled | Depth<br>to Water<br>(ft below TOC) | Groundwater<br>Elevation<br>(feet amsl) | TPHg    | TPHd   | TPHmo | Benzene   | Toluene | Ethylbenzene | Xylenes | MTBE   | Chloroform | 1,2-DCA |
|---|-----------------|-------------------------------------|---|---------|--------|-------|---|---------|--------------|---------|--------|------------|---------|
|   |                 |                                     |   |         |        |       |   |         |              |         |        |            |         |
| ESLs for a potential drinking water resource: |                 |                                     |   | 100     | 100    | 100   | 1.0   | 40      | 30           | 20      | 5.0    | 70         | 0.5     |
| MW-3  | 10/12/1989†     | 24.02                               | 10.21                                   | 87,000  | --     | 4,500 | 3,200   | 8,800   | ND           | 6,500   | --     | --         | 70.0    |
| 34.23   | 10/31/1991      | --                                  | --                                      | 310,000 | 25,000 | --    | 9,300   | 25,000  | 5,600        | 27,000  | --     | --         | 58      |
|   | 11/6/1991       | 23.52                               | 10.71                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 10/21/1992      | 23.32                               | 10.91                                   | 22,000  | --     | --    | 10,000  | 4,300   | 790          | 2,100   | --     | --         | --      |
|   | 2/25/1993       | 22.51                               | 11.72                                   | 29,000  | --     | --    | 8,400   | 5,400   | 1,300        | 3,300   | --     | --         | --      |
|   | 4/27/1993       | 22.37                               | 11.86                                   | 50,000  | --     | --    | 8,200   | 8,700   | 1,000        | 5,400   | --     | --         | --      |
|   | 10/7/1993       | --                                  | 14.19                                   | 1,700   | --     | --    | 3,100   | 3,700   | 400          | 1,700   | --     | --         | --      |
|   | 3/28/1994       | --                                  | 11.52                                   | 53,000  | --     | --    | 3,900   | 4,600   | 710          | 2,500   | --     | --         | --      |
|   | 4/29/1994       | --                                  | 11.34                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 6/10/1994       | --                                  | 11.13                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 7/8/1994        | --                                  | 11.09                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 7/26/1994       | --                                  | 10.94                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 8/25/1994       | --                                  | 10.80                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 10/27/1994      | 23.56                               | 10.67                                   | 8,500   | --     | --    | 2,700   | 2,700   | 490          | 2,000   | --     | --         | --      |
|   | 1/6/1995        | --                                  | 11.33                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 2/1/1995        | --                                  | 11.79                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 3/29/1995       | --                                  | 12.10                                   | --      | --     | --    | --  | --      | --           | --      | --     | --         | --      |
|   | 10/31/1995      | --                                  | 11.23                                   | 19,000  | --     | --    | 4,400   | 4,600   | 720          | 2,900   | 410    | --         | --      |
|   | 5/21/1997       | --                                  | 11.68                                   | 4,000   | --     | --    | 810   | 840     | 190          | 690     | ND<100 | --         | --      |
|   | 9/28/2004       |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 12/21/2004      |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 3/11/2005       |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 6/16/2005       |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 9/1/2005        |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 12/16/2005      |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 3/10/2006       |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |
|   | 9/15/2006       |                                     |   |         |        |       | <i>Well is damaged. Unable to measure depth to water or collect sample.</i> |         |              |         |        |            |         |

# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons** · Chiu Property, 800 Franklin Street, Oakland, California

| Well ID                                       | Date       | Depth | Groundwater | Petroleum Hydrocarbons     |         |                            |                          |        |        |        |         |         |              |
|---|------------|-------|-------------|----------------------------|---------|----------------------------|--------------------------|--------|--------|--------|---------|---------|--------------|
|   |            |       |             | TOC Elevation<br>(ft amsl) | Sampled | to Water<br>(ft below TOC) | Elevation<br>(feet amsl) | TPHg   | TPHd   | TPHmo  | Benzene | Toluene | Ethylbenzene |
| ESLs for a potential drinking water resource: |            |       |             | 100                        | 100     | 100                        | 1.0                      | 40     | 30     | 20     | 5.0     | 70      | 0.5          |
| MW-4  | 10/31/1991 | --    | --          | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | --      | 2.6     | --           |
| 33.64   | 11/6/1991  | 23.32 | 10.32       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 10/21/1992 | 22.10 | 11.54       | 410                        | --      | --                         | 3.1                      | 29     | 6.8    | 47     | --      | --      | --           |
|   | 2/25/1993  | 21.13 | 12.51       | 170                        | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 4/27/1993  | 20.74 | 12.90       | 100                        | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | 0.9    | --      | --      | --           |
|   | 10/7/1993  | --    | 12.52       | 240                        | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 3/28/1994  | --    | 12.34       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 4/29/1994  | --    | 11.33       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 6/10/1994  | --    | 11.55       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 7/8/1994   | --    | 11.54       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 7/26/1994  | --    | 11.30       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 8/25/1994  | --    | 11.09       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 10/27/1994 | 22.69 | 10.95       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 1/6/1995   | --    | 11.70       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 2/1/1995   | --    | 12.34       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 3/29/1995  | --    | 12.76       | --                         | --      | --                         | --                       | --     | --     | --     | --      | --      | --           |
|   | 10/31/1995 | --    | 11.61       | 80                         | --      | --                         | ND<0.5                   | 0.6    | ND<0.5 | 1.0    | ND<0.5  | --      | --           |
|   | 5/21/1997  | --    | 12.08       | ND<50                      | --      | --                         | 11                       | 120    | 27     | 180    | ND<5.0  | --      | --           |
|   | 9/28/2004  | 22.72 | 10.92       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 12/21/2004 | 20.65 | 12.99       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 3/11/2005  | 20.20 | 13.44       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 6/16/2005  | 20.38 | 13.26       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 9/1/2005   | 20.48 | 13.16       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 12/16/2005 | 20.78 | 12.86       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 3/10/2006  | 19.81 | 13.83       | ND<50                      | --      | --                         | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 9/15/2006  | 21.16 | 12.48       | ND<50                      | ND<50   | ND<250                     | ND<0.5                   | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | 28      | ND<0.5       |

# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons** Chiu Property, 800 Franklin Street, Oakland, California

| Well ID                                       | Date       | Depth          | Groundwater | µg/L          |         |          |           |        |        |        |         |         |              |
|---|------------|----------------|-------------|---------------|---------|----------|-----------|--------|--------|--------|---------|---------|--------------|
|   |            |                |             | TOC Elevation | Sampled | to Water | Elevation | TPHg   | TPHd   | TPHmo  | Benzene | Toluene | Ethylbenzene |
| (ft amsl)                                     |            | (ft below TOC) | (feet amsl) |               |         |          |           |        |        |        |         |         |              |
| ESLs for a potential drinking water resource: |            |                |             | 100           | 100     | 100      | 1.0       | 40     | 30     | 20     | 5.0     | 70      | 0.5          |
| MW-5  | 10/31/1991 | --             | --          | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | --      | 1.1     | --           |
| 33.51   | 11/6/1991  | 24.00          | 9.51        | ND            | --      | --       | ND        | ND     | ND     | ND     | --      | --      | --           |
|   | 10/21/1992 | 23.24          | 10.27       | 840           | --      | --       | 17        | 120    | 39     | 180    | --      | --      | --           |
| 33.56   | 2/25/1993  | 22.40          | 11.16       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 4/27/1993  | 22.15          | 11.41       | 260           | --      | --       | 53        | 19     | 1.2    | 2.4    | --      | --      | --           |
|   | 10/7/1993  | --             | 11.06       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 3/28/1994  | --             | 10.95       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 4/29/1994  | --             | 10.91       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 6/10/1994  | --             | 10.68       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 7/8/1994   | --             | 10.60       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 7/26/1994  | --             | 10.45       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 8/25/1994  | --             | 10.28       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 10/27/1994 | 23.50          | 10.06       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | --      | --      | --           |
|   | 1/6/1995   | --             | 10.78       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 2/1/1995   | --             | 11.25       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 3/29/1995  | --             | 11.63       | --            | --      | --       | --        | --     | --     | --     | --      | --      | --           |
|   | 10/31/1995 | --             | 10.64       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5  | --      | --           |
|   | 5/21/1997  | --             | 11.04       | 260           | --      | --       | 2.4       | 33     | 7.7    | 56     | ND<5.0  | --      | --           |
|   | 9/28/2004  | 23.70          | 9.86        | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | 1.5    | ND<5.0  | --      | --           |
|   | 12/21/2004 | 21.40          | 12.16       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 3/11/2005  | 21.40          | 12.16       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 6/16/2005  | 21.63          | 11.93       | ND<50 (i)     | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 9/1/2005   | 21.65          | 11.91       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 12/16/2005 | 21.94          | 11.62       | ND<50 (i)     | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 3/10/2006  | 21.11          | 12.45       | ND<50         | --      | --       | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | --      | --           |
|   | 9/15/2006  | 22.20          | 11.36       | ND<50         | ND<50   | ND<250   | ND<0.5    | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0  | 10      | ND<0.5       |

# CAMBRIA

**Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California**

| Well ID                    | Date       | Depth<br>to Water<br>(ft below TOC) | Groundwater<br>Elevation<br>(feet amsl) | TPHg  | TPHd    | TPHmo  | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE   | Chloroform | 1,2-DCA |
|----------------------------|------------|-------------------------------------|---|---|---------|--------|---------|---------|--------------|---------|--------|------------|---------|
|                            |            |                                     |   |   |         |        |         |         |              |         |        |            |         |
| TOC Elevation<br>(ft amsl) |            |                                     |   | ESLs for a potential drinking water resource: |         |        |         |         |              |         |        |            |         |
|                            |            |                                     |   | 100   | 100     | 100    | 1.0     | 40      | 30           | 20      | 5.0    | 70         | 0.5     |
| MW-6                       | 5/21/1997  | --                                  | 11.26                                   | 760   | --      | --     | 2.5     | 1.7     | ND<0.50      | 25      | 10     | --         | --      |
| 33.98                      | 9/28/2004  | 24.00                               | 9.98                                    | ND<50   | --      | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|                            | 12/21/2004 | 21.61                               | 12.37                                   | ND<50   | --      | --     | ND<0.5  | ND<0.5  | ND<0.5       | ND<0.5  | ND<5.0 | --         | --      |
|                            | 3/11/2005  | 21.60                               | 12.38                                   | 340 (a)                                       | --      | --     | 1.9     | 2.6     | 0.68         | 0.61    | ND<5.0 | --         | --      |
|                            | 6/16/2005  | 21.81                               | 12.17                                   | 1,300 (a)                                     | --      | --     | 58      | 8.3     | 6.1          | 4.0     | ND<25  | --         | --      |
|                            | 9/1/2005   | 21.82                               | 12.16                                   | 1,900 (a)                                     | --      | --     | 150     | 19      | 18           | 76      | ND<12  | --         | --      |
|                            | 12/16/2005 | 22.03                               | 11.95                                   | 3,600 (a,i)                                   | --      | --     | 560     | 63      | 33           | 230     | ND<50  | --         | --      |
|                            | 3/10/2006  | 21.46                               | 12.52                                   | 2,200 (a)                                     | --      | --     | 240     | 10      | 20           | 87      | ND<50  | --         | --      |
|                            | 9/15/2006  | 22.46                               | 11.52                                   | 1,800 (a)                                     | 480 (d) | ND<250 | 10      | 6.7     | 9.9          | 42      | ND<17  | 3.2        | ND<0.5  |

**Abbreviations:**

TOC Elevation = Top of well casing elevation measured in feet above mean sea level

amsl = Above mean sea level

μg/L = Micrograms per liter

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method SW8015C.

TPHd = Total petroleum hydrocarbons as diesel by EPA Method SW8015C with silica gel cleanup.

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method SW8015C with silica gel cleanup.

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.

MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B.

Chloroform by EPA Method SW8260B.

1,2-DCA = 1,2-Dichloroethane by EPA Method SW8260B.

ND<5.0 = Not detected above detection limit.

-- = Not available, not analyzed, or does not apply

ESLs = Environmental Screening Levels from the San Francisco Bay Regional Water Quality Control Board's *Screening for Environmental Concerns at Sites With Contaminated*

Soil and Groundwater, Volume 1, Summary Tier 1 Lookup Tables, Interim Final February 2005.

† = Groundwater elevation calculated using survey data from October 11, 1989. TOC elevations were 33.42 ft amsl for MW-1, 33.65 ft amsl for MW-2, and 34.23 ft amsl for MW-3.

+ = Unable to access well due to denial by current tenant or tenant business closed.

Data collected prior to August 10, 2004 is from previous consultant's reports.

**Notes:**

(a) = unmodified or weakly modified gasoline is significant

(d) = gasoline range compounds are significant


(i) = liquid sample that contains ~1 vol. % sediment

**APPENDIX A**

Groundwater Monitoring Field Data Sheets



## WELL GAUGING SHEET

| Client: Cambria Environmental Technology Inc.     |       |              |   |               |                 |            |
|---|-------|--------------|---|---------------|-----------------|------------|
| Site<br>Address: 800 Franklin Street, Oakland, CA |       |              |   |               |                 |            |
| Date: 9/15/2006                                   |       |              | Signature:  |               |                 |            |
| Well ID   | Time  | Depth to SPH | Depth to Water  | SPH Thickness | Depth to Bottom | Comments   |
| MW-1  | 10:55 |              | 21.51   |               | 33.35           | MW-2 sheen |
| MW-2  | 11:05 |              | 21.31   |               | 34.35           |            |
| MW-3  |       | Inaccessable |   |               |                 |            |
| MW-4  | 10:35 |              | 21.16   |               | 33.62           |            |
| MW-5  | 10:50 |              | 22.20   |               | 34.59           |            |
| MW-6  | 11:00 |              | 22.46   |               | 32.81           |            |
|   |       |              |   |               |                 |            |
|   |       |              |   |               |                 |            |
|   |       |              |   |               |                 |            |
|   |       |              |   |               |                 |            |





## WELL SAMPLING FORM

|                         |           |                                       |                |                         |                  |          |              |  |  |            |
|-------------------------|-----------|---------------------------------------|----------------|-------------------------|------------------|----------|--------------|--|--|------------|
| Date:                   |           | 9/15/2006                             |                |                         |                  |          |              |  |  |            |
| Client:                 |           | Cambria Environmental Technology Inc. |                |                         |                  |          |              |  |  |            |
| Site Address:           |           | 800 Franklin Street, Oakland, CA      |                |                         |                  |          |              |  |  |            |
| Well ID:                |           | MW-1                                  |                |                         |                  |          |              |  |  |            |
| Well Diameter:          |           | 2"                                    |                |                         |                  |          |              |  |  |            |
| Purging Device:         |           | Disposable Bailer                     |                |                         |                  |          |              |  |  |            |
| Sampling Method:        |           | Disposable Bailer                     |                |                         |                  |          |              |  |  |            |
| Total Well Depth:       |           | 33.35                                 |                |                         | Fe=              |          | mg/L         |  |  |            |
| Depth to Water:         |           | 21.51                                 |                |                         | ORP=             |          | mV           |  |  |            |
| Water Column Height:    |           | 11.84                                 |                |                         | DO=              |          | mg/L         |  |  |            |
| Gallons/ft:             |           | 0.16                                  |                |                         | <b>COMMENTS:</b> |          |              |  |  |            |
| 1 Casing Volume (gal):  |           | 1.89                                  |                |                         |                  |          |              |  |  |            |
| 3 Casing Volumes (gal): |           | 5.68                                  |                |                         |                  |          |              |  |  |            |
| TIME:                   |           | CASING VOLUME (gal)                   | TEMP (Celsius) | pH                      |                  |          |              |  |  | COND. (µS) |
| 11:20                   |           | 1.9                                   | 18.5           | 7.06                    | 429              |          |              |  |  |            |
| 11:25                   |           | 3.8                                   | 18.8           | 7.10                    | 407              |          |              |  |  |            |
| 11:30                   |           | 5.7                                   | 18.9           | 7.14                    | 410              |          |              |  |  |            |
| Sample ID:              |           | Sample Date:                          |                | Sample Time:            | Container Type   |          | Preservative |  | Analytes                               | Method     |
| MW-1                    | 9/15/2006 |                                       | 11:35          | 40 ml VOA, 1 L<br>amber |                  | HCl, ICE |              | TPH <sub>g</sub> ,<br>BTEX,<br>MTBE,<br>TPH <sub>d</sub> ,<br>TPH <sub>m</sub> , 1,2<br>DCA,<br>Chloroform | 8015 with silica gel clean up,<br>8021 |            |
|                         |           |                                       |                |                         |                  |          |              |  |  |            |
| Signature:              |           |                                       |                |                         |                  |          |              |  |  |            |




## WELL SAMPLING FORM

|                                |                            |                                       |                       |   |  |                                     |  |  |  |                   |
|--------------------------------|----------------------------|---------------------------------------|-----------------------|---|--|-------------------------------------|--|--|--|-------------------|
| <b>Date:</b>                   |                            | 9/15/2006                             |                       |   |  |                                     |  |  |  |                   |
| <b>Client:</b>                 |                            | Cambria Environmental Technology Inc. |                       |   |  |                                     |  |  |  |                   |
| <b>Site Address:</b>           |                            | 800 Franklin Street, Oakland, CA      |                       |   |  |                                     |  |  |  |                   |
| <b>Well ID:</b>                |                            | MW-2                                  |                       |   |  |                                     |  |  |  |                   |
| <b>Well Diameter:</b>          |                            | 2"                                    |                       |   |  |                                     |  |  |  |                   |
| <b>Purging Device:</b>         |                            | Disposable Bailer                     |                       |   |  |                                     |  |  |  |                   |
| <b>Sampling Method:</b>        |                            | Disposable Bailer                     |                       |   |  |                                     |  |  |  |                   |
| <b>Total Well Depth:</b>       |                            | 34.35                                 |                       | <b>Fe=</b>                              |  | <b>mg/L</b>                         |  |  |  |                   |
| <b>Depth to Water:</b>         |                            | 21.31                                 |                       | <b>ORP=</b>                             |  | <b>mV</b>                           |  |  |  |                   |
| <b>Water Column Height:</b>    |                            | 13.04                                 |                       | <b>DO=</b>                              |  | <b>mg/L</b>                         |  |  |  |                   |
| <b>Gallons/ft:</b>             |                            | 0.16                                  |                       |   |  |                                     |  |  |  |                   |
| <b>1 Casing Volume (gal):</b>  |                            | 2.09                                  |                       | <b>COMMENTS:</b><br>sheen, odor, turbid |  |                                     |  |  |  |                   |
| <b>3 Casing Volumes (gal):</b> |                            | 6.26                                  |                       |   |  |                                     |  |  |  |                   |
| <b>TIME:</b>                   | <b>CASING VOLUME (gal)</b> | <b>TEMP (Celsius)</b>                 | <b>pH</b>             |   |  |                                     |  |  |  | <b>COND. (µS)</b> |
| 1:15                           | 2.1                        | 18.9                                  | 6.84                  | 538                                     |  |                                     |  |  |  |                   |
| 1:20                           | 4.2                        | 19.0                                  | 6.89                  | 572                                     |  |                                     |  |  |  |                   |
| 1:25                           | 6.3                        | 19.1                                  | 6.87                  | 540                                     |  |                                     |  |  |  |                   |
|                                |                            |                                       |                       |   |  |                                     |  |  |  |                   |
|                                |                            |                                       |                       |   |  |                                     |  |  |  |                   |
| <b>Sample ID:</b>              | <b>Sample Date:</b>        | <b>Sample Time:</b>                   | <b>Container Type</b> | <b>Preservative</b>                     | <b>Analytes</b>  | <b>Method</b>                       |  |  |  |                   |
| MW-2                           | 9/15/2006                  | 1:30                                  | 40 ml VOA, 1 L amber  | HCl, ICE                                | TPHg,<br>BTEX,<br>MTBE,<br>TPHd,<br>TPHmo, 1,2<br>DCA,<br>Chloroform | 8015 with silica gel clean up, 8021 |  |  |  |                   |
|                                |                            |                                       |                       |   |  |                                     |  |  |  |                   |
|                                |                            |                                       |                       |   |  |                                     |  |  |  |                   |
|                                |                            |                                       |                       | <b>Signature:</b>                       |  |                                     |  |  |  |                   |



## WELL SAMPLING FORM

|                                |                            |                                       |                       |                     |   |               |
|--------------------------------|----------------------------|---------------------------------------|-----------------------|---------------------|---|---------------|
| <b>Date:</b>                   |                            | 9/15/2006                             |                       |                     |   |               |
| <b>Client:</b>                 |                            | Cambria Environmental Technology Inc. |                       |                     |   |               |
| <b>Site Address:</b>           |                            | 800 Franklin Street, Oakland, CA      |                       |                     |   |               |
| <b>Well ID:</b>                |                            | MW-3                                  |                       |                     |   |               |
| <b>Well Diameter:</b>          |                            |                                       |                       |                     |   |               |
| <b>Purging Device:</b>         |                            |                                       |                       |                     |   |               |
| <b>Sampling Method:</b>        |                            |                                       |                       |                     |   |               |
| <b>Total Well Depth:</b>       |                            | <b>Fe=</b>                            |                       | <b>mg/L</b>         |   |               |
| <b>Depth to Water:</b>         |                            | <b>ORP=</b>                           |                       | <b>mV</b>           |   |               |
| <b>Water Column Height:</b>    |                            | <b>DO=</b>                            |                       | <b>mg/L</b>         |   |               |
| <b>Gallons/ft:</b>             |                            |                                       |                       |                     |   |               |
| <b>1 Casing Volume (gal):</b>  |                            | <b>COMMENTS:</b><br>Inaccessable      |                       |                     |   |               |
| <b>3 Casing Volumes (gal):</b> |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
| <b>TIME:</b>                   | <b>CASING VOLUME (gal)</b> | <b>TEMP (Celsius)</b>                 | <b>pH</b>             | <b>COND. (µS)</b>   |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
| <b>Sample ID:</b>              | <b>Sample Date:</b>        | <b>Sample Time:</b>                   | <b>Container Type</b> | <b>Preservative</b> | <b>Analytes</b>   | <b>Method</b> |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       |                     |   |               |
|                                |                            |                                       |                       | <b>Signature:</b>   |  |               |



## WELL SAMPLING FORM

| Date:                   |                     | 9/15/2006                             |      |                                     |  |                      |  |              |  |  |  |  |  |
|-------------------------|---------------------|---------------------------------------|------|-------------------------------------|--|----------------------|--|--------------|--|--|--|--|--|
| Client:                 |                     | Cambria Environmental Technology Inc. |      |                                     |  |                      |  |              |  |  |  |  |  |
| Site Address:           |                     | 800 Franklin Street, Oakland, CA      |      |                                     |  |                      |  |              |  |  |  |  |  |
| Well ID:                |                     | MW-4                                  |      |                                     |  |                      |  |              |  |  |  |  |  |
| Well Diameter:          |                     | 2"                                    |      |                                     |  |                      |  |              |  |  |  |  |  |
| Purging Device:         |                     | Disposable Bailer                     |      |                                     |  |                      |  |              |  |  |  |  |  |
| Sampling Method:        |                     | Disposable Bailer                     |      |                                     |  |                      |  |              |  |  |  |  |  |
| Total Well Depth:       |                     | 33.62                                 |      | Fe=                                 |  | mg/L                 |  |              |  |  |  |  |  |
| Depth to Water:         |                     | 21.16                                 |      | ORP=                                |  | mV                   |  |              |  |  |  |  |  |
| Water Column Height:    |                     | 12.46                                 |      | DO=                                 |  | mg/L                 |  |              |  |  |  |  |  |
| Gallons/ft:             |                     | 0.16                                  |      | <b>COMMENTS:</b><br>slightly turbid |  |                      |  |              |  |  |  |  |  |
| 1 Casing Volume (gal):  |                     | 1.99                                  |      |                                     |  |                      |  |              |  |  |  |  |  |
| 3 Casing Volumes (gal): |                     | 5.98                                  |      |                                     |  |                      |  |              |  |  |  |  |  |
| TIME:                   | CASING VOLUME (gal) | TEMP (Celsius)                        | pH   |                                     |  |                      |  |              |  | COND. (µS)   |  |  |  |
| 11:45                   | 2.0                 | 19.3                                  | 7.19 |                                     |  |                      |  |              |  | 581  |  |  |  |
| 11:50                   | 4.0                 | 19.3                                  | 7.27 | 605                                 |  |                      |  |              |  |  |  |  |  |
| 11:55                   | 6.0                 | 19.5                                  | 7.21 | 611                                 |  |                      |  |              |  |  |  |  |  |
| Sample ID:              |                     | Sample Date:                          |      | Sample Time:                        |  | Container Type       |  | Preservative |  | Analytes   |  | Method                                 |  |
| MW-4                    |                     | 9/15/2006                             |      | 12:00                               |  | 40 ml VOA, 1 L amber |  | HCl, ICE     |  | TPHg,<br>BTEX,<br>MTBE,<br>TPHd,<br>TPHmo, 1,2<br>DCA,<br>Chloroform |  | 8015 with silica gel clean up,<br>8021 |  |
|                         |                     |                                       |      |                                     |  |                      |  |              |  |  |  |  |  |
|                         |                     |                                       |      |                                     |  |                      |  |              |  |  |  |  |  |
| Signature:              |                     |                                       |      |                                     |  |                      |  |              |  |  |  |  |  |



## WELL SAMPLING FORM

|                                |                            |                                       |                       |                     |  |                                     |
|--------------------------------|----------------------------|---------------------------------------|-----------------------|---------------------|--|-------------------------------------|
| <b>Date:</b>                   |                            | 9/15/2006                             |                       |                     |  |                                     |
| <b>Client:</b>                 |                            | Cambria Environmental Technology Inc. |                       |                     |  |                                     |
| <b>Site Address:</b>           |                            | 800 Franklin Street, Oakland, CA      |                       |                     |  |                                     |
| <b>Well ID:</b>                |                            | MW-5                                  |                       |                     |  |                                     |
| <b>Well Diameter:</b>          |                            | 2"                                    |                       |                     |  |                                     |
| <b>Purging Device:</b>         |                            | Disposable Bailer                     |                       |                     |  |                                     |
| <b>Sampling Method:</b>        |                            | Disposable Bailer                     |                       |                     |  |                                     |
| <b>Total Well Depth:</b>       |                            | 34.59                                 | <b>Fe=</b> mg/L       |                     |  |                                     |
| <b>Depth to Water:</b>         |                            | 22.20                                 | <b>ORP=</b> mV        |                     |  |                                     |
| <b>Water Column Height:</b>    |                            | 12.39                                 | <b>DO=</b> mg/L       |                     |  |                                     |
| <b>Gallons/ft:</b>             |                            | 0.16                                  |                       |                     |  |                                     |
| <b>1 Casing Volume (gal):</b>  |                            | 1.98                                  |                       |                     |  |                                     |
| <b>3 Casing Volumes (gal):</b> |                            | 5.95                                  |                       |                     |  |                                     |
| <b>TIME:</b>                   | <b>CASING VOLUME (gal)</b> | <b>TEMP (Celsius)</b>                 | <b>pH</b>             | <b>COND. (µS)</b>   |  |                                     |
| 12:15                          | 2.0                        | 19.1                                  | 7.28                  | 460                 |  |                                     |
| 12:20                          | 4.0                        | 19.4                                  | 7.33                  | 422                 |  |                                     |
| 12:25                          | 5.9                        | 19.6                                  | 7.31                  | 439                 |  |                                     |
|                                |                            |                                       |                       |                     |  |                                     |
| <b>COMMENTS:</b>               |                            |                                       |                       |                     |  |                                     |
| <b>Sample ID:</b>              | <b>Sample Date:</b>        | <b>Sample Time:</b>                   | <b>Container Type</b> | <b>Preservative</b> | <b>Analytes</b>                                    | <b>Method</b>                       |
| MW-5                           | 9/15/2006                  | 12:30                                 | 40 ml VOA, 1 L amber  | HCl, ICE            | TPHg, BTEX, MTBE, TPHd, TPHmo, 1,2 DCA, Chloroform | 8015 with silica gel clean up, 8021 |
|                                |                            |                                       |                       |                     |  |                                     |
|                                |                            |                                       |                       |                     |  |                                     |
|                                |                            |                                       |                       | <b>Signature:</b>   |  |                                     |



## WELL SAMPLING FORM

|                                |                            |                                       |                       |                     |   |  |                   |
|--------------------------------|----------------------------|---------------------------------------|-----------------------|---------------------|---|--|-------------------|
| <b>Date:</b>                   |                            | 9/15/2006                             |                       |                     |   |  |                   |
| <b>Client:</b>                 |                            | Cambria Environmental Technology Inc. |                       |                     |   |  |                   |
| <b>Site Address:</b>           |                            | 800 Franklin Street, Oakland, CA      |                       |                     |   |  |                   |
| <b>Well ID:</b>                |                            | MW-6                                  |                       |                     |   |  |                   |
| <b>Well Diameter:</b>          |                            | 2"                                    |                       |                     |   |  |                   |
| <b>Purging Device:</b>         |                            | Disposable Bailer                     |                       |                     |   |  |                   |
| <b>Sampling Method:</b>        |                            | Disposable Bailer                     |                       |                     |   |  |                   |
| <b>Total Well Depth:</b>       |                            | 32.81                                 |                       | <b>Fe=</b>          |   | mg/L                                   |                   |
| <b>Depth to Water:</b>         |                            | 22.46                                 |                       | <b>ORP=</b>         |   | mV                                     |                   |
| <b>Water Column Height:</b>    |                            | 10.35                                 |                       | <b>DO=</b>          |   | mg/L                                   |                   |
| <b>Gallons/ft:</b>             |                            | 0.16                                  |                       |                     |   |  |                   |
| <b>1 Casing Volume (gal):</b>  |                            | 1.66                                  |                       | <b>COMMENTS:</b>    |   |  |                   |
| <b>3 Casing Volumes (gal):</b> |                            | 4.97                                  |                       |                     |   |  |                   |
| <b>TIME:</b>                   | <b>CASING VOLUME (gal)</b> | <b>TEMP (Celsius)</b>                 | <b>pH</b>             |                     |   |  | <b>COND. (µS)</b> |
| 12:45                          | 1.7                        | 19.9                                  | 6.98                  |                     |   |  | 622               |
| 12:50                          | 3.3                        | 19.7                                  | 7.04                  |                     |   |  | 614               |
| 12:55                          | 5.0                        | 19.3                                  | 7.01                  |                     |   |  | 610               |
|                                |                            |                                       |                       |                     |   |  |                   |
|                                |                            |                                       |                       |                     |   |  |                   |
|                                |                            |                                       |                       |                     |   |  |                   |
|                                |                            |                                       |                       |                     |   |  |                   |
| <b>Sample ID:</b>              | <b>Sample Date:</b>        | <b>Sample Time:</b>                   | <b>Container Type</b> | <b>Preservative</b> | <b>Analytes</b>   | <b>Method</b>                          |                   |
| MW-6                           | 9/15/2006                  | 1:00                                  | 40 ml VOA, 1 L amber  | HCl, ICE            | TPH <sub>g</sub> ,<br>BTEX,<br>MTBE,<br>TPH <sub>d</sub> ,<br>TPH <sub>mo</sub> , 1,2<br>DCA,<br>Chloroform | 8015 with silica gel clean up,<br>8021 |                   |
|                                |                            |                                       |                       |                     |   |  |                   |
|                                |                            |                                       |                       |                     |   |  |                   |
|                                |                            |                                       |                       |                     |   |  |                   |

**Signature:**

**APPENDIX B**

Laboratory Analytical Report



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

|  |                                    |                                  |
|--|------------------------------------|----------------------------------|
| Cambria Env. Technology<br>5900 Hollis St, Suite A<br>Emeryville, CA 94608 | Client Project ID: #589-1000; Chiu | Date Sampled: 09/15/06           |
|  |                                    | Date Received: 09/15/06          |
|  | Client Contact: Mark Jonas         | Date Extracted 09/20/06-09/21/06 |
|  | Client P.O.:                       | Date Analyzed: 09/20/06-09/21/06 |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0609315

| Lab ID | Client ID | Matrix | TPH(g)   | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF  | % SS |
|--------|-----------|--------|----------|--------|---------|---------|--------------|---------|-----|------|
| 001A   | MW-1      | W      | ND       | ND     | ND      | ND      | ND           | ND      | 1   | 93   |
| 002A   | MW-2      | W      | 43,000,a | ND<500 | 1600    | 4400    | 1100         | 5100    | 100 | 101  |
| 003A   | MW-4      | W      | ND       | ND     | ND      | ND      | ND           | ND      | 1   | 96   |
| 004A   | MW-5      | W      | ND       | ND     | ND      | ND      | ND           | ND      | 1   | 94   |
| 005A   | MW-6      | W      | 1800,a   | ND<17  | 10      | 6.7     | 9.9          | 42      | 3.3 | 117  |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |
|        |           |        |          |        |         |         |              |         |     |      |

|   |   |    |     |     |     |     |     |     |   |       |
|---|---|----|-----|-----|-----|-----|-----|-----|---|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | µg/L  |
|   | S | NA | NA  | NA  | NA  | NA  | NA  | NA  | 1 | mg/Kg |

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.





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|  |                                    |                          |
|--|------------------------------------|--------------------------|
| Cambria Env. Technology<br>5900 Hollis St, Suite A<br>Emeryville, CA 94608 | Client Project ID: #589-1000; Chiu | Date Sampled: 09/15/06   |
|  |                                    | Date Received: 09/15/06  |
|  | Client Contact: Mark Jonas         | Date Extracted: 09/15/06 |
|  | Client P.O.:                       | Date Analyzed: 09/22/06  |

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3510C/3630C

Analytical methods: SW8015C

Work Order: 0609315

| Lab ID       | Client ID | Matrix | TPH(d) | TPH(mo) | DF | % SS |
|--------------|-----------|--------|--------|---------|----|------|
| 0609315-001B | MW-1      | W      | ND     | ND      | 1  | 82   |
| 0609315-002B | MW-2      | W      | 3100,d | ND      | 1  | 87   |
| 0609315-003B | MW-4      | W      | ND     | ND      | 1  | 107  |
| 0609315-004B | MW-5      | W      | ND     | ND      | 1  | 112  |
| 0609315-005B | MW-6      | W      | 480,d  | ND      | 1  | 113  |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |
|              |           |        |        |         |    |      |

|  |   |    |     |       |
|--|---|----|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50 | 250 | µg/L  |
|  | S | NA | NA  | 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.

#) cluttered 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; &) low or no surrogate due to matrix interference.

+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 (asphalt); 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 ~1 vol. % sediment; j) reporting limit raised due to matrix interference; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



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|  |                                    |                          |
|--|------------------------------------|--------------------------|
| Cambria Env. Technology<br><br>5900 Hollis St, Suite A<br><br>Emeryville, CA 94608 | Client Project ID: #589-1000; Chiu | Date Sampled: 09/15/06   |
|  |                                    | Date Received: 09/15/06  |
|  | Client Contact: Mark Jonas         | Date Extracted: 09/21/06 |
|  | Client P.O.:                       | Date Analyzed: 09/21/06  |

### Volatile Organics by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0609315

|           |              |              |              |              |                              |  |
|-----------|--------------|--------------|--------------|--------------|------------------------------|--|
| Lab ID    | 0609315-001C | 0609315-002C | 0609315-003C | 0609315-004C | Reporting Limit for<br>DF =1 |  |
| Client ID | MW-1         | MW-2         | MW-4         | MW-5         |                              |  |
| Matrix    | W            | W            | W            | W            |                              |  |
| DF        | 1            | 20           | 1            | 1            |                              |  |

| Compound                     | Concentration |       |    |    | ug/kg | ug/L |
|------------------------------|---------------|-------|----|----|-------|------|
|                              | Chloroform    | 6.4   | 16 | 28 | 10    | NA   |
| 1,2-Dichloroethane (1,2-DCA) | ND            | ND<10 | ND | ND | NA    | 0.5  |

### Surrogate Recoveries (%)

|       |     |     |     |     |  |
|-------|-----|-----|-----|-----|--|
| %SS1: | 118 | 112 | 119 | 119 |  |
| %SS2: | 81  | 82  | 84  | 83  |  |
| %SS3: | 96  | 100 | 102 | 100 |  |

Comments

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm



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|  |                                    |                          |
|--|------------------------------------|--------------------------|
| Cambria Env. Technology<br><br>5900 Hollis St, Suite A<br><br>Emeryville, CA 94608 | Client Project ID: #589-1000; Chiu | Date Sampled: 09/15/06   |
|  |                                    | Date Received: 09/15/06  |
|  | Client Contact: Mark Jonas         | Date Extracted: 09/21/06 |
|  | Client P.O.:                       | Date Analyzed: 09/21/06  |

### Volatile Organics by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0609315

|           |              |  |  |                              |
|-----------|--------------|--|--|------------------------------|
| Lab ID    | 0609315-005C |  |  | Reporting Limit for<br>DF =1 |
| Client ID | MW-6         |  |  |                              |
| Matrix    | W            |  |  |                              |
| DF        | 1            |  |  |                              |

| Compound                     | Concentration |  |  |  | ug/kg | ug/L |
|------------------------------|---------------|--|--|--|-------|------|
| Chloroform                   | 3.2           |  |  |  | NA    | 0.5  |
| 1,2-Dichloroethane (1,2-DCA) | ND            |  |  |  | NA    | 0.5  |

### Surrogate Recoveries (%)

|          |     |  |  |  |
|----------|-----|--|--|--|
| %SS1:    | 120 |  |  |  |
| %SS2:    | 83  |  |  |  |
| %SS3:    | 103 |  |  |  |
| Comments |     |  |  |  |

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0609315

Table with columns: EPA Method: SW8021B/8015Cm, Extraction: SW5030B, BatchID: 23780, Spiked Sample ID: 0609319-001a. Rows include analytes like TPH(btex), MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, and %SS with various recovery and RPD values.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 23780 SUMMARY

Summary table with columns: Sample ID, Date Sampled, Date Extracted, Date Analyzed. Contains data for samples 0609315-001A through 0609315-005A.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
£ TPH(btex) = sum of BTEX areas from the FID.
# cluttered chromatogram; sample peak coelutes with surrogate peak.



### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0609315

| EPA Method: SW8015C |        | Extraction: SW3510C/3630C |        |        |        | BatchID: 23730 |        |          | Spiked Sample ID: N/A   |     |          |     |
|---------------------|--------|---------------------------|--------|--------|--------|----------------|--------|----------|-------------------------|-----|----------|-----|
| Analyte             | Sample | Spiked                    | MS     | MSD    | MS-MSD | LCS            | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                     | µg/L   | µg/L                      | % Rec. | % Rec. | % RPD  | % Rec.         | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| TPH(d)              | N/A    | 1000                      | N/A    | N/A    | N/A    | 103            | 107    | 3.91     | N/A                     | N/A | 70 - 130 | 30  |
| %SS:                | N/A    | 2500                      | N/A    | N/A    | N/A    | 107            | 109    | 1.51     | N/A                     | N/A | 70 - 130 | 30  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 23730 SUMMARY

| Sample ID    | Date Sampled     | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|------------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0609315-001B | 9/15/06 11:35 AM | 9/15/06        | 9/22/06 4:29 AM | 0609315-002B | 9/15/06 1:30 PM | 9/15/06        | 9/22/06 5:37 AM |
| 0609315-003B | 9/15/06 12:00 PM | 9/15/06        | 9/22/06 6:45 AM |              |                 |                |                 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ;  $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$ .  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0609315

| EPA Method: SW8015C |        | Extraction: SW3510C/3630C |        |        |        | BatchID: 23782 |        |          | Spiked Sample ID: N/A   |     |          |     |
|---------------------|--------|---------------------------|--------|--------|--------|----------------|--------|----------|-------------------------|-----|----------|-----|
| Analyte             | Sample | Spiked                    | MS     | MSD    | MS-MSD | LCS            | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                     | µg/L   | µg/L                      | % Rec. | % Rec. | % RPD  | % Rec.         | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| TPH(d)              | N/A    | 1000                      | N/A    | N/A    | N/A    | 90.7           | 88.7   | 2.30     | N/A                     | N/A | 70 - 130 | 30  |
| %SS:                | N/A    | 2500                      | N/A    | N/A    | N/A    | 106            | 104    | 1.98     | N/A                     | N/A | 70 - 130 | 30  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 23782 SUMMARY

| Sample ID    | Date Sampled     | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|------------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0609315-004B | 9/15/06 12:30 PM | 9/15/06        | 9/22/06 3:20 AM | 0609315-005B | 9/15/06 1:00 PM | 9/15/06        | 9/22/06 2:11 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0609315

| EPA Method: SW8260B           |        | Extraction: SW5030B |        |        | BatchID: 23759 |        |        | Spiked Sample ID: 0609288-001C |                         |     |          |     |
|-------------------------------|--------|---------------------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|-----|----------|-----|
| Analyte                       | Sample | Spiked              | MS     | MSD    | MS-MSD         | LCS    | LCSD   | LCS-LCSD                       | Acceptance Criteria (%) |     |          |     |
|                               | µg/L   | µg/L                | % Rec. | % Rec. | % RPD          | % Rec. | % Rec. | % RPD                          | MS / MSD                | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND     | 10                  | 82.8   | 82.2   | 0.719          | 90.5   | 92.3   | 2.02                           | 70 - 130                | 30  | 70 - 130 | 30  |
| Benzene                       | ND     | 10                  | 107    | 105    | 1.66           | 112    | 115    | 2.65                           | 70 - 130                | 30  | 70 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND     | 50                  | 102    | 118    | 14.4           | 110    | 111    | 0.452                          | 70 - 130                | 30  | 70 - 130 | 30  |
| Chlorobenzene                 | ND     | 10                  | 100    | 98.6   | 1.56           | 103    | 105    | 1.40                           | 70 - 130                | 30  | 70 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND     | 10                  | 84.2   | 87.6   | 3.96           | 90.3   | 91.1   | 0.857                          | 70 - 130                | 30  | 70 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND     | 10                  | 111    | 111    | 0              | 117    | 118    | 1.33                           | 70 - 130                | 30  | 70 - 130 | 30  |
| 1,1-Dichloroethene            | ND     | 10                  | 98.4   | 101    | 2.36           | 96.3   | 101    | 4.94                           | 70 - 130                | 30  | 70 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND     | 10                  | 97.9   | 104    | 6.19           | 106    | 107    | 1.14                           | 70 - 130                | 30  | 70 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND     | 10                  | 92.7   | 100    | 7.73           | 103    | 104    | 1.09                           | 70 - 130                | 30  | 70 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | 0.82   | 10                  | 87.5   | 91.2   | 3.78           | 104    | 108    | 3.82                           | 70 - 130                | 30  | 70 - 130 | 30  |
| Toluene                       | ND     | 10                  | 92.4   | 97     | 4.89           | 96.1   | 95.9   | 0.117                          | 70 - 130                | 30  | 70 - 130 | 30  |
| Trichloroethene               | ND     | 10                  | 81.2   | 83.2   | 2.38           | 88.3   | 89.4   | 1.30                           | 70 - 130                | 30  | 70 - 130 | 30  |
| %SS1:                         | 104    | 10                  | 106    | 105    | 1.60           | 106    | 107    | 0.313                          | 70 - 130                | 30  | 70 - 130 | 30  |
| %SS2:                         | 100    | 10                  | 100    | 105    | 5.09           | 100    | 98     | 2.04                           | 70 - 130                | 30  | 70 - 130 | 30  |
| %SS3:                         | 109    | 10                  | 92     | 103    | 11.3           | 90     | 86     | 4.90                           | 70 - 130                | 30  | 70 - 130 | 30  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 23759 SUMMARY

| Sample ID    | Date Sampled     | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|------------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0609315-001C | 9/15/06 11:35 AM | 9/21/06        | 9/21/06 6:22 PM | 0609315-002C | 9/15/06 1:30 PM | 9/21/06        | 9/21/06 7:09 PM |
| 0609315-003C | 9/15/06 12:00 PM | 9/21/06        | 9/21/06 7:55 PM |              |                 |                |                 |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0609315

| EPA Method: SW8260B           |        | Extraction: SW5030B |        |        |        | BatchID: 23781 |        |          | Spiked Sample ID: 0609328-006A |     |          |     |
|-------------------------------|--------|---------------------|--------|--------|--------|----------------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte                       | Sample | Spiked              | MS     | MSD    | MS-MSD | LCS            | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                               | µg/L   | µg/L                | % Rec. | % Rec. | % RPD  | % Rec.         | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND     | 10                  | 112    | 106    | 5.28   | 77.2           | 73.1   | 5.55     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Benzene                       | ND     | 10                  | 105    | 98.4   | 5.90   | 106            | 105    | 0.837    | 70 - 130                       | 30  | 70 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND     | 50                  | 108    | 105    | 2.94   | 110            | 109    | 1.46     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Chlorobenzene                 | ND     | 10                  | 102    | 96.5   | 5.11   | 97.5           | 97.4   | 0.165    | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND     | 10                  | 98.2   | 91.8   | 6.81   | 81             | 78.9   | 2.66     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND     | 10                  | 127    | 127    | 0      | 108            | 118    | 8.53     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,1-Dichloroethene            | ND     | 10                  | 117    | 112    | 4.64   | 105            | 104    | 0.816    | 70 - 130                       | 30  | 70 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND     | 10                  | 126    | 117    | 7.54   | 96.5           | 91.1   | 5.76     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND     | 10                  | 121    | 113    | 7.19   | 94.9           | 88.1   | 7.42     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND     | 10                  | 124    | 117    | 5.61   | 94.8           | 92.5   | 2.52     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Toluene                       | ND     | 10                  | 97.1   | 85.5   | 12.8   | 90.8           | 85.1   | 6.43     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Trichloroethene               | ND     | 10                  | 99.6   | 93.6   | 6.21   | 84.8           | 79.5   | 6.49     | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS1:                         | 100    | 10                  | 100    | 101    | 0.186  | 111            | 110    | 0.264    | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS2:                         | 114    | 10                  | 103    | 96     | 6.18   | 99             | 95     | 4.26     | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS3:                         | 106    | 10                  | 111    | 107    | 3.75   | 94             | 83     | 12.7     | 70 - 130                       | 30  | 70 - 130 | 30  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 23781 SUMMARY

| Sample ID    | Date Sampled     | Date Extracted | Date Analyzed   | Sample ID    | Date Sampled    | Date Extracted | Date Analyzed   |
|--------------|------------------|----------------|-----------------|--------------|-----------------|----------------|-----------------|
| 0609315-004C | 9/15/06 12:30 PM | 9/21/06        | 9/21/06 8:44 PM | 0609315-005C | 9/15/06 1:00 PM | 9/21/06        | 9/21/06 9:34 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).


MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**McC Campbell Analytical, Inc.**

 1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0609315

ClientID: CETE

EDF: YES

**Report to:**

Mark Jonas  
Cambria Env. Technology  
5900 Hollis St, Suite A  
Emeryville, CA 94608

Email: mjonas@cambria-env.com  
TEL: (510) 420-0700 FAX: (510) 420-9170  
ProjectNo: #589-1000; Chiu  
PO:

**Bill to:**

Accounts Payable  
Cambria Env. Technology  
5900 Hollis St, Ste. A  
Emeryville, CA 94608

Requested TAT:

5 days

*Date Received:* 09/15/2006

*Date Printed:* 09/15/2006

| Sample ID   | ClientSampID | Matrix | Collection Date    | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|--------------|--------|--------------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |              |        |                    |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0609315-001 | MW-1         | Water  | 9/15/06 11:35:00   | <input type="checkbox"/> | C                                  | A | A | B |   |   |   |   |   |    |    |    |  |
| 0609315-002 | MW-2         | Water  | 9/15/06 1:30:00 PM | <input type="checkbox"/> | C                                  | A |   | B |   |   |   |   |   |    |    |    |  |
| 0609315-003 | MW-4         | Water  | 9/15/06 12:00:00   | <input type="checkbox"/> | C                                  | A |   | B |   |   |   |   |   |    |    |    |  |
| 0609315-004 | MW-5         | Water  | 9/15/06 12:30:00   | <input type="checkbox"/> | C                                  | A |   | B |   |   |   |   |   |    |    |    |  |
| 0609315-005 | MW-6         | Water  | 9/15/06 1:00:00 PM | <input type="checkbox"/> | C                                  | A |   | B |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |         |    |          |   |             |   |               |    |  |
|----|---------|----|----------|---|-------------|---|---------------|----|--|
| 1  | 8260B_W | 2  | G-MBTX_W | 3 | PREF REPORT | 4 | TPH(DMO)WSG_W | 5  |  |
| 6  |         | 7  |          | 8 |             | 9 |               | 10 |  |
| 11 |         | 12 |          |   |             |   |               |    |  |

**Prepared by: Melissa Valles**

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

cefe 0609315

**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

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?  Yes  No

Report To: Mark Jones Bill To: Cambria Environmental Technology  
Company: Cambria Environmental Technology  
5900 Hollis St. Ste A  
Emeryville, CA 94608 E-Mail: m.jones@cambria-env.com  
Tele: 510-420-3307 Fax: (510) 420-9170  
Project #: 589-1000 Project Name: Chiu  
Project Location: 800 Franklin St. Oakland, CA  
Sampler Signature: Muskan Environmental Sampling

| SAMPLE ID<br>(Field Point Name) | LOCATION | SAMPLING |       | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     | Analysis Request | Other | Comments |  |
|---------------------------------|----------|----------|-------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|----------|--|
|                                 |          | Date     | Time  |              |                 | Water  | Soil | Air | Sludge | Other | ICE              | HCL |                  |       |          | HNO <sub>3</sub>   |
| MW-1                            |          | 9-15-06  | 11:35 | 4            | VOCs<br>Amb     | X      |      |     |        |       | X                | X   |                  |       |          | Filter<br>Samples<br>for Metals<br>analysis:<br>Yes / No |
| MW-2                            |          |          | 1:30  |              |                 |        |      |     |        |       |                  |     |                  |       |          |  |
| MW-4                            |          |          | 12:00 |              |                 |        |      |     |        |       |                  |     |                  |       |          |  |
| MW-5                            |          |          | 12:30 |              |                 |        |      |     |        |       |                  |     |                  |       |          |  |
| MW-6                            |          |          | 1:00  | 2            | X               |        |      |     |        |       | X                | X   |                  |       |          |  |
| IB                              |          | X        |       | 1            | VOCs            | X      |      |     |        |       | X                | X   |                  |       |          |  |

+  
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+  
V

Relinquished By: [Signature] Date: 9/15/06 Time: 3:15  
Received By: Mal Vall  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_

ICE:    
GOOD CONDITION  APPROPRIATE CONTAINERS   
HEAD SPACE ABSENT  PRESERVED IN LAB   
DECHLORINATED IN LAB \_\_\_\_\_  
PRESERVATION: VOCS  O&G  METALS  OTHER

1,2-DCA, Chlaco form by 8260