

| То: | Mr. Tom Peacock |
|---------------|--|
| Organization: | ACDEH |
| Address: | 1131 Harbor Bay Pkwy., 2 nd Floor |
| | Alameda, CA 94502 |
| Phone: | 510-567-6782 |

| From: | Bob Schultz | |
|--------|------------------------|--|
| Phone: | (510) 420-3341 | |
| Date: | July 16, 1999 | |
| Re: | 2Q99 Monitoring Report | |

Transmittal

Dear Mr. Peacock:

Please find our second quarter 1999 Monitoring Report enclosed. If you have any questions or comments, please do not hesitate to call me at (510) 420-3341.

Thank you,

76 Sehralt
Bob Schultz

Mr. Lee Douglas Douglas Parking 1721 Webster Street Oakland, California 94612

Re: Second Quarter 1999 Monitoring Report

Douglas Parking 1721 Webster Street Oakland, California Cambria Project# 580-0197

Dear Mr. Douglas:



This report summarizes the second quarter 1999 groundwater monitoring results for the above-referenced site. Described below are the second quarter 1999 activities, the hydrocarbon distribution in groundwater, and the anticipated future activities.

SECOND QUARTER 1999 ACTIVITIES

Groundwater Sampling: On May 4, 1999, Cambria collected and analyzed groundwater samples from wells MW-2, MW-3, MW-4 and MW-5 for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), and dissolved oxygen (DO) concentrations. Cambria also gauged all site wells and checked for separate-phase hydrocarbons (SPH). No SPH were detected. The groundwater elevation and analytical data are summarized in Table 1. The laboratory analytical report for groundwater is included as Attachment A. Well sampling forms are included as Attachment B.

Hydrogen Peroxide Injection: On March 17, 1999, Cambria completed the hydrogen peroxide injection program described in our November 11, 1999, Remedial Work Plan. One hundred and twenty gallons of 7.5% hydrogen peroxide solution were injected into wells MW-2 and MW-3 via six injection events. After the March 17, 1999, injection the wells were left undisturbed for over 6 weeks to allow dispersion of the hydrogen peroxide into the formation, and to allow groundwater conditions to equilibrate near the injection wells.

Oakland, CA Sonoma, CA Portland, OR Seattle, WA

HYDROCARBON DISTRIBUTION IN GROUNDWATER

Cambria Environmental Technology, Inc.

Groundwater elevation data indicate that groundwater flows towards the north-northeast with a gradient of 0.006 ft/ft (Figure 1). Consistent with historical site data, hydrocarbons were detected

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

in wells MW-2, MW-3 and MW-4. Benzene was only detected in wells MW-2 and MW-4, located immediately downgradient of the former underground storage tank (UST) area (Figure 1). The extent of hydrocarbons in groundwater is defined to below method reporting limits in the northern, crossgradient direction by well MW-1 and in the downgradient direction by well MW-5.

Unexpectedly, hydrocarbon concentrations increased dramatically this quarter in wells MW-2 and MW-3. This concentration increase may be a result of hydrogen peroxide injection at the site. Additional groundwater monitoring will help assess if this is a temporary increase.



ANTICIPATED FUTURE ACTIVITIES

Groundwater Sampling: As requested by the Alameda County Department of Environmental Health, Cambria will perform groundwater monitoring on a quarterly basis to evaluate the remedial effectiveness of the hydrogen peroxide injection. During each monitoring event, Cambria will gauge all site wells, check for SPH, and collect and analyze groundwater samples from wells MW-2, MW-3, MW-4 and MW-5 for TPHg, BTEX, MTBE, and DO. If MTBE is detected in wells MW-2 or MW-4, concentrations will be confirmed by re-analysis using EPA Method 8260. Cambria will summarize the quarterly monitoring activities in a written report.

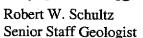
Remedial Evaluation Report: In accordance with our meeting today at the site, Cambria plans to prepare a remedial evaluation report that evaluates the results of the hydrogen peroxide injection activities and proposes an alternative low-cost technique for remediating site soil and groundwater. The report will include descriptions of hydrogen peroxide injection field activities, tabulated DO concentrations measured during the hydrogen peroxide injection period, and an analysis of the effectiveness of the completed remedial action. Because of the recent hydrocarbon concentration increase in wells MW-2 and MW-3, Cambria will propose a different approach for remediating the site. The proposed approach will include a revised feasibility study and incorporate cost considerations and physical limitations at the site.

CLOSING

Cambria appreciates the opportunity to provide environmental consulting services to Douglas Parking. Please call if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.



Bob Clark-Riddell, PE Principal Engineer

Attachments: A - Laboratory Analytical Report

B - Well Sampling Forms

Tom Peacock, ACDEH, UST Local Oversight Program, 1131 Harbor Bay Parkway,

2nd Floor, Alameda, CA 94502

H:\SB-2004\DOUGLAS\QMS\QM-2-99.WPD

cc:

Douglas Parking Facility

1721 Webster Street Oakland, California



Groundwater Elevation Contour Map

May 4, 1999

Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

| Well ID | Date | TOC Elevation | Depth to | Groundwater | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO | Notes |
|---------|--|--|--|--|--|--|--|--|--|----------------------------------|--|---------------------------------|
| | | (ft-msl) | Water (ft) | Elevation (ft) | < | | (Concentra | tions in μg/l) | | > | (mg/L) | |
| MW-1 | 12/02/94 | 29.25 | 19.42 | 9.83 | nd | nd | nd | nd | nd | - | - | 1 |
| | 03/06/95 | 29.73 | 20.69 | 9.04 | nd | nd | nd | nd | nd | _ | | 1 |
| | 07/11/95 | 29.81 | 20.65 | 9.16 | nd | nd | nd | nd | nd | - | - | - |
| | 05/10/96 | 29.81 | 20.80 | 9.01 | nd | nd | nd | nd | nd | - | - | |
| | 10/02/96 | 29.81 | 21.35 | 8.46 | _ | - | • | - | - | - | • | 2 |
| | 02/28/97 | 29.81 | 20.57 | 9.24 | - | - | - | - | _ ~ | - | _ | 2 |
| | 09/16/97 | 29.81 | 21.50 | 8.31 | - | - | _ | - | _ | _ | _ | 2 |
| | 02/05/98 | 29.81 | 20.91 | 8.90 | - | - | - | - | _ | _ | 1.9 | 2 |
| | 08/11/98 | 29.81 | 20.50 | 9.31 | - | - | | - | - | - | 0.06 | 2 |
| | 02/08/99 | 29.81 | 21.42 | 8.39 | - | - | _ | - | - | _ | 6.0 | 2, 3 |
| | 02/24/99 | 29.81 | 22.99 | 6.82 | | - | - | - | - | - | 2.0 | 2, 3 |
| | 03/03/99 | 29.81 | 20.84 | 8.97 | - | - | - | - | - | - | 3.8 | 2, 3 |
| | 03/10/99 | 29.81 | 20.89 | 8.92 | - | - | - | - | | | 3.4 | 2, 3 |
| | 03/17/99 | 29.81 | 20.84 | 8.97 | - | - | - | - | - | - | 2.8 | 2, 3 |
| | 03/1//// | | 20.0. | | | | | | | | | -, - |
| | 05/04/99 | 29.81 | 20.80 | 9.01 | 51 - 18 - 5 - 10 11 11 19 - 21 10 11 \$1 11 12 12 13 14 15 | | | | | | 3.5 | 2 |
| MW-2 | | | | | 61,300 | 3,000 | 3,900 | 160 | 4,500 | - - | | and the second of the |
| MW-2 | 05/04/99 | 29.81 | 20,80 | 9.01 | 61,300 98,000 | 3,000 8,400 | 3,900 16,000 | 160 2,000 | 4,500 2,600 | | | and the second second |
| MW-2 | 05/04/99 12/02/94 | 29.81 27.10 | 20,80 19.50 | 7.60 | | | - | | | - - - | | and the second second |
| MW-2 | 05/04/99 12/02/94 03/06/95 | 29.81 27.10 27.10 | 20.80 19.50 18.49 | 9.01 7.60 8.61 | 98,000 | 8,400 | 16,000 | 2,000 | 2,600 | | | and the second of the |
| MW-2 | 05/04/99 12/02/94 03/06/95 07/11/95 | 29.81 27.10 27.10 27.40 | 19.50 18.49 18.45 | 7.60 8.61 8.95 | 98,000 38,000 | 8,400 3,100 | 16,000 7,500 | 2,000 940 | 2,600 3,700 | | | and the second second |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 | 27.10 27.10 27.40 27.40 | 19.50 18.49 18.45 18.56 | 7.60 8.61 8.95 8.84 | 98,000 38,000 63,000 | 8,400 3,100 7,400 | 16,000 7,500 16,000 | 2,000 940 1,500 | 2,600 3,700 6,000 | - - - - - - nd | | and the second second |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 | 27.10 27.10 27.10 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 | 7.60 8.61 8.95 8.84 8.25 | 98,000 38,000 63,000 21,000 | 8,400 3,100 7,400 2,200 | 16,000 7,500 16,000 3,400 | 2,000 940 1,500 430 | 2,600 3,700 6,000 1,600 | - - - - nd <620 | | and the second second |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 | 7.60 8.61 8.95 8.84 8.25 8.97 | 98,000 38,000 63,000 21,000 39,000 | 8,400 3,100 7,400 2,200 4,700 | 16,000 7,500 16,000 3,400 9,600 | 2,000 940 1,500 430 950 | 2,600 3,700 6,000 1,600 4,200 | | | and the second second |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 | 98,000 38,000 63,000 21,000 39,000 29,000 | 8,400 3,100 7,400 2,200 4,700 3,300 | 16,000 7,500 16,000 3,400 9,600 5,800 | 2,000 940 1,500 430 950 690 | 2,600 3,700 6,000 1,600 4,200 2,900 | <620 | ************************************** | and the second of the |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 02/05/98 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 18.66 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 8.74 | 98,000 38,000 63,000 21,000 39,000 29,000 10,000 | 8,400 3,100 7,400 2,200 4,700 3,300 1,000 | 16,000 7,500 16,000 3,400 9,600 5,800 2,000 | 2,000 940 1,500 430 950 690 170 | 2,600 3,700 6,000 1,600 4,200 2,900 860 | <620 <330 | - - - - - - - - 7.9 | and the second of the |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 02/05/98 08/11/98 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 18.66 18.41 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 8.74 8.99 | 98,000 38,000 63,000 21,000 39,000 29,000 10,000 12,000 | 8,400 3,100 7,400 2,200 4,700 3,300 1,000 1,200 | 16,000 7,500 16,000 3,400 9,600 5,800 2,000 2,300 | 2,000 940 1,500 430 950 690 170 260 | 2,600 3,700 6,000 1,600 4,200 2,900 860 1,400 | <620 <330 300 | - - - - - 7.9 5.4 | 1 1 |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 02/05/98 08/11/98 02/08/99 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 18.66 18.41 19.84 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 8.74 8.99 7.56 | 98,000 38,000 63,000 21,000 39,000 29,000 10,000 12,000 | 8,400 3,100 7,400 2,200 4,700 3,300 1,000 1,200 | 16,000 7,500 16,000 3,400 9,600 5,800 2,000 2,300 | 2,000 940 1,500 430 950 690 170 260 | 2,600 3,700 6,000 1,600 4,200 2,900 860 1,400 | <620 <330 300 60 | 7.9 5.4 3.7 | 1 1 |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 02/05/98 08/11/98 02/08/99 02/17/99 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 18.66 18.41 19.84 18.94 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 8.74 8.99 7.56 8.46 | 98,000 38,000 63,000 21,000 39,000 29,000 10,000 12,000 | 8,400 3,100 7,400 2,200 4,700 3,300 1,000 1,200 | 16,000 7,500 16,000 3,400 9,600 5,800 2,000 2,300 | 2,000 940 1,500 430 950 690 170 260 | 2,600 3,700 6,000 1,600 4,200 2,900 860 1,400 | <620 <330 300 60 | 7.9 5.4 3.7 >20 | 1 1 3 3 3 3 3 3 |
| MW-2 | 12/02/94 03/06/95 07/11/95 05/10/96 10/02/96 02/28/97 09/16/97 02/05/98 08/11/98 02/08/99 02/17/99 02/24/99 | 27.10 27.10 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 27.40 | 19.50 18.49 18.45 18.56 19.15 18.43 19.26 18.66 18.41 19.84 18.94 20.76 | 7.60 8.61 8.95 8.84 8.25 8.97 8.14 8.74 8.99 7.56 8.46 6.64 | 98,000 38,000 63,000 21,000 39,000 29,000 10,000 12,000 | 8,400 3,100 7,400 2,200 4,700 3,300 1,000 1,200 | 16,000 7,500 16,000 3,400 9,600 5,800 2,000 2,300 | 2,000 940 1,500 430 950 690 170 260 | 2,600 3,700 6,000 1,600 4,200 2,900 860 1,400 | <620 <330 300 60 - | - - - - - 7.9 5.4 3.7 >20 >20 | 1 1 1 3 3 3 3 |

1 of 3

Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

| Well ID | Date | TOC Elevation | Depth to | Groundwater | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO | Notes |
|---------|----------|---------------|------------|----------------|---------|---|------------|----------------|---------|------|--------|-------|
| | | (ft-msl) | Water (ft) | Elevation (ft) | < | *************************************** | (Concentra | tions in μg/l) | | > | (mg/L) | |
| MW-3 | 12/02/94 | 29.50 | 22.15 | 7.35 | 394,000 | 1,200 | nd | 1,800 | 4,000 | - | - | 1 |
| | 03/06/95 | 29.25 | 20.09 | 9.16 | 21,000 | 400 | 150 | 24 | 62 | _ | _ | 1 |
| | 07/11/95 | 29.56 | 19.99 | 9.57 | 12,000 | nd | 10 | 16 | 99 | - | - | |
| | 05/10/96 | 29.56 | 20.24 | 9.32 | 8,600 | nd | 7.6 | 16 | 84 | - | - | |
| | 10/02/96 | 29.56 | 20.90 | 8.66 | 11,000 | nd | 7.4 | 19 | 92 | - | - | |
| | 02/28/97 | 29.56 | 20.12 | 9.44 | 6,000 | \mathbf{nd} | 4.4 | 17 | 88 | 50 | - | |
| | 09/16/97 | 29.56 | 20.97 | 8.59 | 6,500 | < 0.5 | 1 | 1 | 7 | <5.0 | - | |
| | 02/05/98 | 29.56 | 20.39 | 9.17 | 5,400 | <0.5 | 6.3 | 15 | 86 | <63 | 1.9 | |
| | 08/11/98 | 29.56 | 19.95 | 9.61 | 2,700 | < 0.5 | 3.5 | 3.2 | 12 | <10 | 0.05 | |
| | 02/08/99 | 29.56 | 20.58 | 8.98 | 6,100 | < 0.5 | 8.1 | 18 | 80 | <140 | 2.2 | 3 |
| | 02/17/99 | 29.56 | 20.53 | 9.03 | • | - | - | - | - | • | >20 | 3 |
| | 02/24/99 | 29.56 | 22.53 | 7.03 | = | - | - | - | - | - | >20 | 3 |
| | 03/03/99 | 29.56 | 20.28 | 9.28 | - | - | - | - | - | _ | >20 | 3 |
| | 03/10/99 | 29.56 | 22.45 | 7.11 | - | - | - | - | - | - | >20 | 3 |
| | 03/17/99 | 29.56 | 20.26 | 9.30 | _ | - | - | - | - | - | >20 | 3 |
| | 05/04/99 | 29.56 | 20.24 | 932 | 11,000 | 42 | 4 | 9.8 | 140 | <10 | 3.1 | |
| MW-4 | 05/10/96 | 25.29 | 16.98 | 8.31 | 14,000 | nd | 1,200 | 720 | 3,100 | - | - | |
| | 10/02/96 | 25.29 | 17.65 | 7.64 | 12,000 | nd | 650 | 580 | 2,200 | - | - | |
| | 02/28/97 | 25.29 | 16.80 | 8.49 | 13,000 | nd | 1,100 | 750 | 2,700 | 110 | - | |
| | 09/17/97 | 25.29 | 17.93 | 7.36 | 13,000 | <2.5 | 820 | 750 | 2,900 | <190 | - | |
| | 02/05/98 | 25.29 | 16.78 | 8.51 | 13,000 | <1.0 | 690 | 690 | 2,900 | <170 | 2.1 | |
| | 08/11/98 | 25.29 | 16.59 | 8.70 | 15,000 | <5 | 360 | 520 | 1,900 | 280 | 2.8 | |
| | 02/08/99 | 25.29 | 17.10 | 8.19 | 9,800 | <5 | 680 | 770 | 2,200 | 300 | 1.8 | 3 |
| | 02/24/99 | 25.29 | 18.95 | 6.34 | - | - | - | - | - | - | 2.2 | 3 |
| | 03/03/99 | 25.29 | 16.80 | 8.49 | | - | - | - | • | • | 4.6 | 3 |
| | | | | | | | | | | | | |
| | 03/10/99 | 25.29 | 16.86 | 8.43 | - | - | - | - | - | - | 3.7 | 3 |

Table 1. Groundwater Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

| Date | TOC Elevation | Depth to | Groundwater | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO | Notes |
|----------|--|--|--|--|--|--|---|---|--|---|--|
| | (ft-msl) | Water (ft) | Elevation (ft) | < | | (Concentra | tions in µg/l) | | > | (mg/L) | |
| | | | | | | | | | | | - |
| 05/10/96 | 21.97 | 14.60 | 7.37 | nd | nd | nd | nd | nd | - | - | |
| 10/02/96 | 21.97 | 15.25 | 6.72 | nd | nd | nd | nd | nd | - | - | |
| 02/28/97 | 21.97 | 14.31 | 7.66 | nd | nd | nd | nd | nd | nd | - | |
| 09/17/97 | 21.97 | 15.18 | 6.79 | < 0.5 | < 0.5 | <0.5 | <0.5 | < 0.5 | <5.0 | - | |
| 02/05/98 | 21.97 | 13.64 | 8.33 | <50 | < 0.5 | <0.5 | <0.5 | < 0.5 | <5.0 | 2.8 | |
| 08/11/98 | 21.97 | 13.92 | 8.05 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | <5.0 | 0.05 | |
| 02/08/99 | 21.97 | 14.19 | 7.78 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | <5.0 | 3.0 | 3 |
| 02/24/99 | 21.97 | 16.18 | 5.79 | - | - | - | - | - | - | 4.9 | 3 |
| 03/03/99 | 21.97 | 14.23 | 7.74 | - | - | - | - | - | - | 3.4 | 3 |
| 03/10/99 | 21.97 | 14.32 | 7.65 | | - | • | - | - | - | 3.6 | 3 |
| 03/17/99 | 21.97 | 14.25 | 7.72 | - | _ | - | - | | _ | 3.9 | 3 |
| | 05/10/96 10/02/96 02/28/97 09/17/97 02/05/98 08/11/98 02/08/99 02/24/99 03/03/99 03/10/99 | (ft-msl) 05/10/96 21.97 10/02/96 21.97 02/28/97 21.97 09/17/97 21.97 02/05/98 21.97 08/11/98 21.97 02/08/99 21.97 02/24/99 21.97 03/03/99 21.97 03/10/99 21.97 | 05/10/96 21.97 14.60 10/02/96 21.97 15.25 02/28/97 21.97 14.31 09/17/97 21.97 15.18 02/05/98 21.97 13.64 08/11/98 21.97 13.92 02/08/99 21.97 14.19 02/24/99 21.97 16.18 03/03/99 21.97 14.23 03/10/99 21.97 14.32 | (ft-msl) Water (ft) Elevation (ft) 05/10/96 21.97 14.60 7.37 10/02/96 21.97 15.25 6.72 02/28/97 21.97 14.31 7.66 09/17/97 21.97 15.18 6.79 02/05/98 21.97 13.64 8.33 08/11/98 21.97 13.92 8.05 02/08/99 21.97 14.19 7.78 02/24/99 21.97 16.18 5.79 03/03/99 21.97 14.23 7.74 03/10/99 21.97 14.32 7.65 | (ft-msl) Water (ft) Elevation (ft) < 05/10/96 21.97 14.60 7.37 nd 10/02/96 21.97 15.25 6.72 nd 02/28/97 21.97 14.31 7.66 nd 09/17/97 21.97 15.18 6.79 <0.5 | (ft-msl) Water (ft) Elevation (ft) 05/10/96 21.97 14.60 7.37 nd nd 10/02/96 21.97 15.25 6.72 nd nd 02/28/97 21.97 14.31 7.66 nd nd 09/17/97 21.97 15.18 6.79 <0.5 | (ft-msl) Water (ft) Elevation (ft) (Concentral concentral conc | (ft-msl) Water (ft) Elevation (ft) (Concentrations in μg/l) 05/10/96 21.97 14.60 7.37 nd nd nd nd nd 10/02/96 21.97 15.25 6.72 nd nd | (ft-msl) Water (ft) Elevation (ft) (Concentrations in μg/l) 05/10/96 21.97 14.60 7.37 nd nd< | (ft-msl) Water (ft) Elevation (ft) (Concentrations in μg/l) >> 05/10/96 21.97 14.60 7.37 nd nd nd nd nd nd - 10/02/96 21.97 15.25 6.72 nd nd | (ft-msl) Water (ft) Elevation (ft) Concentrations in μg/l) >> (mg/L) |

Notes and Abbreviations:

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

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

MTBE = methyl tertiary butyl ether by EPA Method 8020.

μg/L = micrograms per liter

mg/L = milligrams per liter

ft-msl = feet above mean sea level

TOC = top of casing

nd = not detected

DO = dissolved oxygen

- 1 = Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.
- 2 = Sampling no longer required in well MW-1 per September 17, 1996, ACDEH letter to Douglas Parking.
- 3 = DO monitoring event, as described in November 11, 1998 Remedial Workplan.

ATTACHMENT A

Laboratory Analytical Report

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

| Cambria Environmental Technology | Client Project ID: #580-0197; | Date Sampled: 05/04/99 | |
|---------------------------------------|---------------------------------|--------------------------|--|
| 1144 65 th Street, Suite C | Douglas Parking | Date Received: 05/05/99 | |
| Oakland, CA 94608 | Client Contact: Jacquelyn Jones | Date Extracted: 05/05/99 | |
| | Client P.O: | Date Analyzed: 05/05/99 | |

05/12/99

Dear Jacquelyn:

Enclosed are:

- 1). the results of 4 samples from your #580-0197; Douglas Parking project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Such Ryduli fer Edward Hamilton, Lab Director 110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

| Cambria Environmental Technology | Client Project ID: #580-0197; | Date Sampled: 05/04/99 | |
|---------------------------------------|---------------------------------|-------------------------------|--|
| 1144 65 th Street, Suite C | Douglas Parking | Date Received: 05/05/99 | |
| Oakland, CA 94608 | Client Contact: Jacquelyn Jones | Date Extracted: 05/05/99 | |
| | Client P.O: | Date Analyzed: 05/05-05/10/99 | |

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

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030) Ethylben-% Recovery Client ID **MTBE** Lab ID Matrix , TPH(g)+ Benzene Toluene Xylenes zene Surrogate 10432 MW2 W 90,000,a 560 9200 21,000 1600 10,000 104 MW3 W ND<10 ND<2 ND<2 10433 11,000,b,j 9.8 140 105 10434 MW4 W 11,000,a ND<100 46 600 620 1900 104 10435 MW5 W ND ND ND ND ND ND 103 TB1 W ND ND ND ND ND 10436 ND 105 Reporting Limit unless W 50 ug/L 5.0 0.5 0.5 0.5 0.5 otherwise stated; ND means not detected above the reporting S 0.05 0.005 0.005 0.005 0.005 1.0 mg/kg limit

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

^{*}cluttered chromatogram; sample peak coelutes with surrogate peak

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

QC REPORT FOR HYDROCARBON ANALYSES

Date:

05/05/99

Matrix:

WATER

| | Concent | ration | (ug/L) | | % Reco | very | |
|-------------------------------------|---------------------|--------------------|-------------------|--------------------------|-----------------------|----------------------|-------------------|
| Analyte | Sample (#09710) | MS | MSD | Amount Spiked | MS | MSD | RPD |
| TPH (gas) | 0.0 | 105.9 | 98.7 | 100.0 | 105.9 | 98.7 | 7.0 |
| Benzene Toluene Ethyl Benzene | 0.0 | 9.7 9.9 10.1 | 9.5 9.7 9.8 | 10.0 10.0 10.0 | 97.0 99.0 101.0 | 95.0 97.0 98.0 | 2.1 2.0 3.0 |
| Xylenes | 0.0 | 30.3 | 29.3 | 30.0 | 101.0 | 97.7 | 3.4 |
| TPH(diesel) | 0.0 | 8955 | 8655 | 7500 | 119 | 115 | 3.4 |
| TRPH (oil & grease) | 0 | 22700 | 22400 | 23700 | 96 | 95 | 1.3 |

% Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

CHAIN OF CUSTODY RECORD McCAMPBELL ANALYTICAL INC. 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PÁCHECO, CA 94553 RUSH 24 HOUR 48 HOUR 5 DAY Telephone: (925) 798-1620 Fax: (925) 798-1622 Report To: Jacquelyn Jones Bill To: Analysis Request Other Comments Company: Cambria Environmental Technology Total Petroleum Oil & Grease (5520 E&F/B&F) 1144 65th Street, Suite C Oakland, CA 94608 EPA 625 / 8270 / 8310 Total Petroleum Hydrocarbons (418.1) Fax: (510) 420-9170 Tele: (510) 420-0700 Project Name: Donalas Parking Project #: < O -BTEX ONLY (EPA 602 / 8020) castand EPA 608 / 8080 PCB's ONLY Lead (7240/7421/239.2/6010) Project Location: Sampler Signature: BTEX & TPH as Gas (602 EPA 624 / 8240 / 8260 METHOD PRESERVED TPH as Diesei (8015) SAMPLING MATRIX PAH's / PNA's by Type Containers EPA 601 / 8010 EPA 608 / 8080 EPA 625 / 8270 CAM-17 Metals LUFT 5 Membs Containers LOCATION SAMPLE ID Sludge Time Date Water HCI HNO, Other Soil ည A.F. 泛 10432 W NOV yo & MW3 10433 1205 10434 1120 10435 10436 Received By: Blanco # 2010 Remarks: · · · · Relinquished By: VOASIO&GIMETALSIOTHER Relinquished By: PRESERVATION Bl mco #2010 **APPROPRIATE** Relinguished By: Time:

ATTACHMENT B

Well Sampling Forms



WELL DEPTH MEASUREMENTS

| Well ID | Time | Product Depth | Water Depth | Product Thickness | Well Depth | Comments | |
|---------|------|------------------|-------------|----------------------|------------|-------------------------------|------|
| MWS | 1023 | | 14.41 | | 24.63 | undarnwell box; does not con- | دمنو |
| MWI | 1028 | | 20.80 | | 24.63 | DO= 3.5 mg/L | |
| MWY | 1035 | | 16.86 | | 29.88 | where nell sox does uit con | cap |
| MW3 | 1041 | | 20.24 | | 28.05 | wateriumal Loxy covers car | |
| MW2 | 1046 | | 18.55 | | 27.08 | | |
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| Measured By: | | · |
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Date: $\frac{5}{4\sqrt{99}}$

| Project Name: Douglas Parking | Cambria Mgr: RWS | Well ID: MW2 | |
|-----------------------------------|------------------------|---------------------------|--|
| Project Number: 580-0197 | Date: 5/4/99 | Well Yield: | |
| Site Address: 1721 Webster Street | Sampling Method: | Well Diameter: 2 "pvc | |
| Oakland, California | Disposable bailer | Technician(s): | |
| Initial Depth to Water: 17.55 | Total Well Depth: カスのど | Water Column Height: 8,53 | |
| Volume/ft: | 1 Casing Volume: | 3 Casing Volumes: ——— | |
| Purging Device: disposable bailer | Did Well Dewater?: | Total Gallons Purged: | |
| Start Purge Time: | Stop Purge Time: | Total Time: | |

1 Casing Volume = Water column height x Volume/ ft.

| | Well Diam. 2" | Volume/ft (gallons) 0.16 |
|------------------------------------|------------------|-----------------------------|
| $DO: \underline{3.2} \text{ mg/l}$ | 4" 6" | 0. 6 5 |

| Time | Casing Volume | Temp. | pН | Cond. | Comments |
|---------------------------------------|------------------|-------|----------|-------|----------|
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| Sample ID | Date : | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|--------|------|-------------------|--------------|---------------------|-----------------|
| MW2 | 5/4/59 | 145 | 4 voa's | HCL | TPHg, BTEX, MTBE | 8020 8015 |
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D:VIEMPLATE/FORMS/FIELD/WELLSAMP.WPD NSM 5/31/94

| Project Name: Douglas Parking | Cambria Mgr: RWS | Well ID: MW3 | |
|--------------------------------------|----------------------------|---------------------------|--|
| Project Number: 580-0197 | Date: 5/4/99 | Well Yield: | |
| Site Address: 1721 Webster Street | Sampling Method: | Well Diameter: 2 "pvc | |
| Oakland, California | Disposable bailer | Technician(s): | |
| Initial Depth to Water: 20.24 | Total Well Depth: フをつらり | Water Column Height: 7.8/ | |
| Volume/ft: 0.16 | 1 Casing Volume: 1.55 call | 3 Casing Volumes: 3.75 al | |
| Purging Device: disposable bailer | Did Well Dewater?: NO | Total Gallons Purged: 5 | |
| Start Purge Time: (03 | Stop Purge Time: \\0 | Total Time: 7 m : M | |

Well Diam. Volume/ft (gallons) 1 Casing Volume = Water column height x Volume/ ft.

DO: 3.1 mg/l

| / 2" | 0.16 |
|-------------|------|
| 4" | 0.65 |
| 6" | 1.47 |

| Time | Casing Volume | Temp. | pН | Cond. | Comments |
|------|------------------|-------|-----|--------|----------|
| 103 | (| 20.6 | 6.4 | 578 | |
| 10 | 2 | U | 6.6 | 558 | |
| 110 | 3 | 20.4 | 6.6 | (-6°C) | |
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| Sample ID | Date : | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|--------|------|-------------------|--------------|---------------------|-----------------|
| MW3 | 5/4/99 | 1:20 | 4 voa's | HCL | TPHg, BTEX, MTBE | 8020 8015 |
| | | | | | | |
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| Project Name: Douglas Parking | Cambria Mgr: RWS | Well ID: MW4 | |
|--------------------------------------|---------------------------|------------------------------|--|
| Project Number: 580-0197 | Date: 5/4/99 | Well Yield: | |
| Site Address: 1721 Webster Street | Sampling Method: | Well Diameter:pvc | |
| Oakland, California | Disposable bailer | Technician(s): | |
| Initial Depth to Water: | Total Well Depth: 29 88 | Water Column Height: 13.02 | |
| Volume/ft: 0.16 | 1 Casing Volume: 2.08 cul | 3 Casing Volumes: 6.25 cal | |
| Purging Device: disposable bailer | Did Well Dewater?: NO | Total Gallons Purged: 65 (a) | |
| Start Purge Time: (139) | Stop Purge Time: 1153 | Total Time: 14 min | |

1 Casing Volume = Water column height x Volume/ ft.

DO: 4" 0.65 6" 1.47

| Time | Casing Volume | Temp. | pН | Cond. | Comments |
|-------|------------------|-------|-----|----------|----------|
| (139) | 1 | 221 | 188 | 6-6 | |
| 1.46 | 2 | 20.2 | 730 | 6.8 | |
| 1152 | 3 | 19-5 | 771 | 66 | |
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| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|--------|------|-------------------|--------------|---------------------|-----------------|
| Mwy | 5/4/95 | 205 | 4 voa's | HCL | TPHg, BTEX, MTBE | 8020 8015 |
| | | | | | | |
| | | | | | | |

| Project Name: Douglas Parking | Cambria Mgr: RWS | Well ID: YWS | |
|-----------------------------------|------------------------|----------------------------|--|
| Project Number: 580-0197 | Date: 5/4/99 | Well Yield: | |
| Site Address: 1721 Webster Street | Sampling Method: | Well Diameter: 2 "pvc | |
| Oakland, California | Disposable bailer | Technician(s): | |
| Initial Depth to Water: 4,4 | Total Well Depth: 2443 | Water Column Height: 10.22 | |
| Volume/ft: 0.16 | 1 Casing Volume: 1.64 | 3 Casing Volumes: 4 91 | |
| Purging Device: disposable bailer | Did Well Dewater?: VO | Total Gallons Purged: | |
| Start Purge Time: (00 | Stop Purge Time: U08 | Total Time: &mi | |

1 Casing Volume = Water column height x Volume/ ft.

| Time | Casing Volume | Тетр. | pН | Cond. | Comments |
|---|--|-------|-----|-------|----------|
| 100 | | 19.5 | 6.8 | 619 | |
| 1104 | 2 | 19.2 | 6-8 | 616 | |
| 1707 | 3 | 18.9 | 6.8 | 645 | |
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| Sample ID | Date - | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|--------|------|-------------------|--------------|---------------------|-----------------|
| MWS | 5/4/9 | 1120 | 4 voa's | HCL | TPHg, BTEX, MTBE | 8020 8015 |
| | | | | | | |
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