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November 10, 2000

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Third Quarter 2000 Monitoring Report

Former Exxon Service Station

3055 35th Avenue
Oakland, California
Cambria Project #130-0105



Dear Mr. Chan:

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc., (Cambria) has prepared this third quarter 2000 groundwater monitoring report for the above-referenced site. Presented in the report are the third quarter 2000 activities and results and the anticipated fourth quarter 2000 activities. This monitoring program complies with Alameda County Health Care Services Agency requirements regarding underground storage tank investigations.

Sincerely,

Cambria Environmental Technology, Inc.

Ron Scheele, RG Senior Geologist

Attachments: Quarterly Groundwater Monitoring Report, Third Quarter 2000

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

Oakland, CA San Ramon, CA Sonoma, CA Portland, OR

Cambria Environmental Technology, Inc.

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

THIRD QUARTER 2000 MONITORING REPORT

Former Exxon Service Station 3055 35th Avenue Oakland, California Cambria Project #130-0105

November 10, 2000



Prepared for:

Mr. Lynn Worthington Golden Empire Properties, Inc. 5942 MacArthur Boulevard, Suite B Oakland, CA 94605

Prepared by:

Cambria Environmental Technology, Inc. 1144 65th Street, Suite B Oakland, California 94608 No. 6842

No. 6842

No. 6842

Jazon Olson

Staff Environmental Scientist

Ron Scheele, RG Senior Geologist

THIRD QUARTER 2000 MONITORING REPORT

Former Exxon Service Station 3055 35th Avenue Oakland, California Cambria Project #130-0105

November 10, 2000

INTRODUCTION



On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) has prepared this third quarter 2000 groundwater monitoring report for the above-referenced site (see Figure 1). Presented in the report are the third quarter 2000 activities and results and the anticipated fourth quarter 2000 activities.

THIRD QUARTER 2000 ACTIVITIES

Monitoring Activities

prior to DPE operation

Field Activities: On September 7, 2000, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) monitoring wells MW-1, MW-2, MW-3 and MW-4 (Figure 1). Groundwater samples were collected from all wells. Field data sheets are presented in Appendix A.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), and total petroleum hydrocarbons as diesel (TPHd) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tert-butyl ether (MTBE) by modified EPA Method 8020. The groundwater analytical results are summarized in Table 1. The Laboratory Analytical Report is included in Appendix B.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's September 7, 2000 site visit, groundwater beneath the site flows to the northwest at a gradient of 0.009 ft/ft (Figure 1). Since 1994, the primary groundwater flow direction has been toward the northwest with a change toward the southwest usually occurring during the fourth quarter. Groundwater elevation data is presented in Table 1.

Third Quarter 2000 Monitoring Report 3055 35th Avenue Oakland, California November 10, 2000

Hydrocarbon Distribution in Groundwater: No SPH were detected in any of the wells. TPHg concentrations in the sampled monitoring wells ranged from 40,000 micrograms per liter (μg/L) in MW-1 to 100,000 μg/L in MW-3. TPHd concentrations ranged from 5900 μg/L ppb in MW-4 to 32,000 μg/L in MW-2. Benzene concentrations ranged from 3,700 μg/L in MW-1 to 17,000 μg/L in MW-3. MTBE concentrations were below detection limits in all sampled wells. These analytical results are consistent with historical results.

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Corrective Action Activities

On September 28, 2000, Cambria began operation of a dual phase extraction (DPE) remediation system. System influent and effluent vapor samples were collected on October 12, 2000, and analyzed by McCambell Analytical of Pacheco, California. System monitoring data and analytical results indicated that the system was operating as designed and that hydrocarbon destruction efficiency was within permit requirements. Additional system startup and operation details are described in Cambria's System Startup Report dated October 17, 2000.

ANTICIPATED FOURTH QUARTER ACTIVITIES

Monitoring Activities

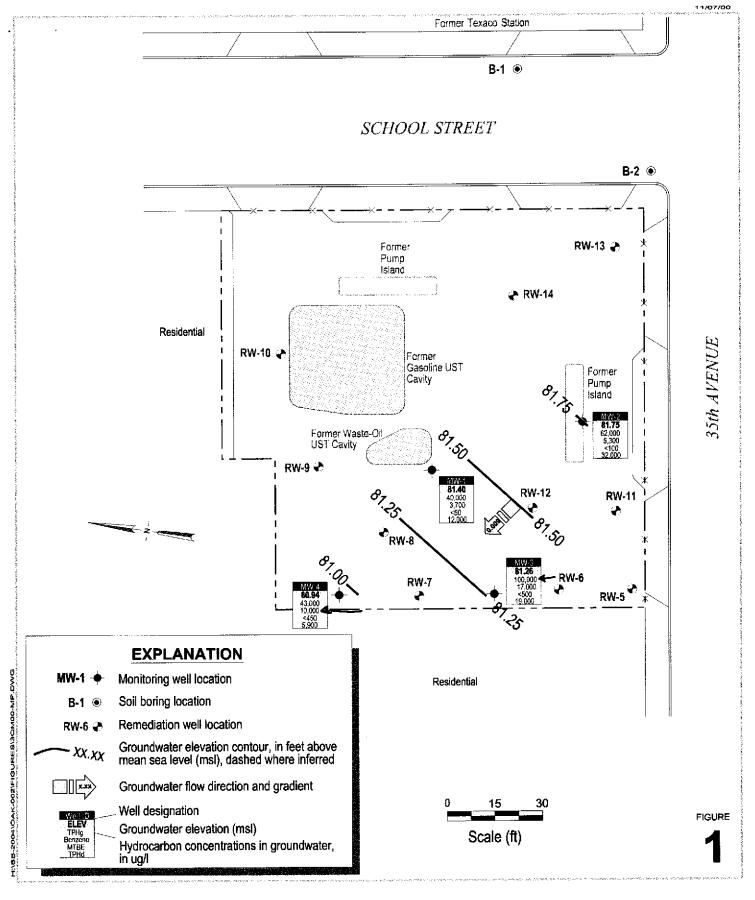
Cambria will gauge the depth to water in site wells, check the wells for SPH, and collect groundwater samples on a quarterly basis. Cambria will also analyze, tabulate, and report the data in a groundwater monitoring report.

Corrective Action Activities

Cambria plans to operate the remediation system through the fourth quarter, 2000. System operation and maintenance data will be collected in accordance with the system's sewer and air permits. Preparation of a Quarterly System Progress Report will be initiated.

ATTACHMENTS:

Figure 1- Groundwater Elevation Contours
Table 1 - Groundwater Elevation and Analytical Data
Appendix A - Field Data Sheets
Appendix B - Laboratory Analytical Report



Former Exxon Station

3055 35th Avenue Oakland, California



CAMBRIA

Groundwater Elevation Contour Map

September 7, 2000

Table 1. Groundwater Elevation and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | SPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|------------------------|----------|------------|-------|------------|-----------------------|----------------------|----------|----------------|-----------------|--------------|---------|--------|--------|
| (TOC) | <u></u> | Depth (ft) | (ft) | Elev. (ft) | < | | Солсег | trations in pa | rts per billion | ı (μg/L) | | -> | (mg/L) |
| MW-1 | 05/25/94 | 16.79 | Sheen | 84.06 | 120,000 | 25,000 | -<50,000 | 22,000 | 17,000 | 2,800 | 16,000 | | |
| 100.85 | 07/19/94 | 20.77 | | 80.08 | | | | | | | | | |
| 102/02 | 08/18/94 | 21.04 | Sheen | 79.81 | 925,000 | | | 16,500 | 6,200 | 1,000 | 9,400 | | |
| | 11/11/94 | 15.80 | | 85.05 | 57,000 | | | 14,000 | 4,400 | 1,400 | 6,400 | | |
| | 02/27/95 | 15.53 | | 85.32 | 45,000 | | | 2,900 | 2,500 | 760 | 4,100 | | |
| | 05/23/95 | 15.29 | | 85.56 | 22,000 | | | 9,900 | 990 | 790 | 2,000 | | |
| | 08/22/95 | 20.90 | | 79.95 | 23,000 | | | 6,900 | 340 | 1,200 | 1,900 | | |
| | 11/29/95 | 22.19 | | 78.66 | 37,000 | | | 9,900 | 530 | 1,600 | 2,900 | | **** |
| | 02/21/96 | 11.69 | | 89.16 | 33,000 | 4,300 | | 10,000 | 480 | 1,000 | 1,800 | 3,300 | |
| | 05/21/96 | 14.62 | | 86.23 | 36,000 | 8,500 | | 8,500 | 1,400 | 1,300 | 2,800 | 1,900 | |
| | 08/22/96 | 22.30 | | 78.55 | 41,000 | 6,200 | | 8,600 | 1,300 | 1,500 | 2,900 | <200 | 8.0 |
| | 11/27/96 | 17.24 | Sheen | 83.61 | 38,000 | 6,100 | | 9,600 | 950 | 1,600 | 3,100 | <400 | 5.6 |
| | 03/20/97 | 16.65 | | 84.20 | 33,000 | 10,000 | | 6,100 | 560 | 970 | 2,200 | <400 | 8.5 |
| | 06/25/97 | 19.77 | | 81.08 | 31,000 | 7,400 ^a | | 7,400 | 440 | 890 | 1,800 | <400 | 3.7 |
| | 09/17/97 | 20.12 | | 80.73 | $32,000^{d}$ | 3,500 ^e | | 9,100 | 550 | 1,000 | 2,000 | <1,000 | 2.1 |
| | 12/22/97 | 12.95 | | 87.90 | $26,000^{d}$ | 5,800° | | 7,900 | 370 | 920 | 1,500 | <790 | 0.7 |
| | 03/18/98 | 12.34 | Sheen | 88.51 | $30,000^{d}$ | 4,200 ^{e,f} | | 7,800 | 820 | 840 | 2,000 | <1,100 | 1.3 |
| | 07/14/98 | 17.34 | | 83.51 | $41,000^{d}$ | 8,900 ^{e,f} | * | 8,200 | 1,100 | 1,200 | 3,000 | <200 | 1.8 |
| | 09/30/98 | 19.90 | | 80.95 | 37,000 | 3,300 | | 11,000 | 950 | 1,200 | 2,800 | <20 | 2.0 |
| | 12/08/98 | 15.62 | | 85.23 | 22,000 | 3,700 | | 3,000 | 1,200 | 730 | 3,100 | <900 | |
| | 03/29/99 | 11.98 | | 88.87 | 36,000 ^d | 6,800° | | 12,000 | 750 | 1,300 | 2,400 | 950 | 0.50 |
| | 06/29/99 | 20.77 | | 80.08 | $28,000^{d}$ | 3,500 ^e | | 7,300 | 420 | 810 | 1,700 | <1,300 | 0.10 |
| | 09/28/99 | 19.68 | | 81.17 | $13,000^{d}$ | 3,600 c,f | | 3,200 | 130 | 320 | 1,100 | <210 | 0.55 |
| L. + Caus | 12/10/99 | 17.02 | | 83.83 | 25,000 ^d | 2,900 e,f | | 5,400 | 130 | 620 | 1,400 | <1,000 | 1.03 |
| sheer sugs | 03/23/00 | 12.76 | | 88.09 | 21,000 ^d | 3,300 ^f | | 4,700 | 140 | 470 | 1,100 | <350 | |
| sheet says observed | 09/07/00 | 19.45 | · | 81.40 | 40,000 ^{d,g} | 12,000°,g | | 3,700 | 1,400 | 910 | 4,900 | <50 | 0.17 |
| MW-2 | 05/25/94 | 15.65 | | 84.35 | 61,000 | 6,900 | <5,000 | 9,900 | 7,400 | 960 | 4,600 | | |
| 100.00 | 07/19/94 | 19.81 | | 80.19 | | | | | | | | | |
| | 08/18/94 | 20.37 | | 79.63 | 88,000 | | | 10,750 | 10,500 | 1,850 | 9,600 | | |

Page 1 of 4

Table 1. Groundwater Elevation and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | SPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|---------|----------|------------|-------|------------|------------------------|-------------------------|--------|-----------------|-----------------|--------------|---------|--------|--------|
| (TOC) | | Depth (ft) | (ft) | Elev. (ft) | < | | Concer | ntrations in pa | ırts per billio | ı (μg/L) | | -> | (mg/L) |
| Mw3 | 08/22/95 | 17.10 | | 79.77 | 74,000 | | ~~* | 14,000 | 13,000 | 1,900 | 11,000 | | |
| 11(40 - | 11/29/95 | 16.34 | | 80.53 | 220,000 | | | 25,000 | 25,000 | 3,500 | 19,000 | | |
| | 02/21/96 | 7.92 | | 88.95 | 60,000 | | | 10,000 | 7,800 | 1,500 | 8,800 | 3,400 | |
| | 05/21/96 | 10.86 | Sheen | 86.01 | 69,000 | 13,000 | | 17,000 | 9,400 | 1,700 | 9,400 | 2,600 | |
| | 08/22/96 | 16.50 | | 80.37 | 94,000 | 16,000 | | 17,000 | 15,000 | 2,100 | 12,000 | 330 | 2.0 |
| | 11/27/96 | 13.47 | Sheen | 83.40 | 82,000 | 24,000 | | 14,000 | 13,000 | 2,400 | 13,000 | <1,000 | 2.4 |
| | 03/20/97 | 12.86 | | 84.01 | 56,000 | 11,000 | | 9,900 | 6,900 | 1,300 | 8,000 | 3,500 | 9.0 |
| | 06/25/97 | 15.98 | | 80.89 | 49,000 | 7,700 ^b | | 9,700 | 7,100 | 1,300 | 7,000 | 220 | 5.8 |
| | 09/17/97 | 16.34 | Sheen | 80.53 | 78,000 ^d | 15,000° | | 11,000 | 9,900 | 1,800 | 10,000 | <1,200 | 0.7 |
| | 12/22/97 | 10.71 | Sheen | 86.16 | 49,000 ^d | 14,000 ^e | | 7,300 | 5,300 | 1,400 | 7,500 | <1,100 | 3.1 |
| | 03/18/98 | 8.41 | Sheen | 88.46 | 120,000 ^d | 20,000 ^{e,f} | | 21,000 | 19,000 | 2,600 | 15,000 | <1,600 | 1.6 |
| | 07/14/98 | 13.51 | | 83.36 | 94,000 ^{d,g} | 65,000 ^{e,f,g} | | 18,000 | 14,000 | 1,900 | 11,000 | <1,400 | 1.8 |
| | 09/30/98 | 16.14 | | 80.73 | 91,000 | 9,800 | | 17,000 | 13,000 | 2,100 | 12,000 | <1300 | 2.0 |
| | 12/08/98 | 11.20 | | 85.67 | 51,000 | 4,200 | | 8,000 | 6,800 | 1,400 | 7,500 | <1,100 | |
| | 03/29/99 | 7.95 | | 88.92 | 39,000 ^d | 4,600 ^e | | 8,900 | 4,400 | 940 | 4,500 | 810 | 0.56 |
| | 06/29/99 | 16.98 | | 79.89 | 71,000 ^d | 6,900 ^e | | 12,000 | 7,300 | 1,400 | 8,400 | <1,700 | 0.19 |
| | 09/28/99 | 15.99 | | 80.88 | 60,000 ^d | 7,800° | | 9,400 | 9,200 | 1,000 | 9,900 | 200 | 0.53 |
| | 12/10/99 | 13.31 | | 83.56 | 53,000 ^d | 5,300 ^{e,f} | | 8,000 | 6,400 | 1,100 | 8,100 | <200 | 0.48 |
| | 03/23/00 | 8.98 | | 87.89 | 77,000 ^{d.g} | $11,000^{g,j}$ | | 10,000 | 9,400 | 1,600 | 11,000 | <430 | |
| | 09/07/00 | 15.61 | | 81.26 | 100,000 ^{d,g} | 19,000 ^{e.f,g} | | 17,000 | 12,000 | 1,600 | 11,000 | <500 | |
| MW-4 | 03/20/97 | 13.75 | | 83.59 | 47,000 | 3,100 | *** | 11,000 | 4,500 | 1,100 | 5,200 | 3,400 | 8.4 |
| 97.34 | 06/25/97 | 16.15 | | 81.19 | 61,000 | $5,800^{b}$ | | 16,000 | 6,100 | 1,500 | 5,900 | 780° | 1.4 |
| | 09/17/97 | 17.10 | | 80.24 | $60,000^{d}$ | 4,400 ^e | | 17,000 | 4,900 | 1,500 | 5,700 | <1,500 | 1.5 |
| | 12/22/97 | 9.21 | | 88.13 | 43,000 ^d | 3,100 ^e | | 13,000 | 3,900 | 1,100 | 4,200 | <960 | 3.7 |
| | 03/18/98 | 9.54 | | 87.80 | 58,000 ^d | 5,500 ^{e,f} | | 14,000 | 4,700 | 1,400 | 5,700 | <1,200 | 0.8 |
| | 07/14/98 | 14.15 | | 83.19 | $73,000^{d}$ | 2,900 ^{e,f} | | 22,000 | 7,000 | 1,800 | 7,300 | <200 | 1.0 |
| | 09/30/98 | 16.84 | | 80.50 | 39,000 | 2,100 | | 12,000 | 2,700 | 1,000 | 3,400 | 510 | 1.1 |
| | 12/08/98 | 13.45 | | 83.89 | 27,000 | 1,600 | | 8,900 | 1,600 | 730 | 2,300 | <1,500 | |
| | 03/29/99 | 9.10 | | 88.24 | $48,000^{d}$ | 2,400°,fh | | 15,000 | 3,000 | 1,300 | 5,000 | 1,300 | 1.32 |

Table 1. Groundwater Elevation and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | SPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|-----------|----------|------------|-------|------------|-----------------------|-----------------------|-----------|----------------|------------------|--------------|---------|--------|--------|
| (TOC) | | Depth (ft) | (ft) | Elev. (ft) | < | | Concen | trations in pa | arts per billior | ı (μg/L) | | -> | (mg/L) |
| | 11/11/94 | 15.52 | | 84.48 | 54,000 | | | 5,900 | 6,700 | 1,300 | 7,500 | | |
| | 02/27/95 | 14.46 | Sheen | 85.54 | 44,000 | | gar Marya | 5,100 | 5,300 | 930 | 6,400 | | |
| | 05/23/95 | 14.17 | | 85.83 | 33,000 | | | 8,200 | 5,600 | 900 | 6,600 | | |
| | 08/22/95 | 19.80 | | 80.20 | 38,000 | | | 6,400 | 5,000 | 1,100 | 5,600 | | |
| | 11/29/95 | 21.05 | | 78.95 | 46,000 | | | 7,100 | 5,300 | 1,300 | 6,000 | | |
| | 02/21/96 | 10.53 | | 89.47 | 59,000 | | | 8,000 | 6,000 | 1,800 | 8,900 | 4,500 | |
| | 05/21/96 | 13.47 | | 86.53 | 51,000 | 3,400 | | 8,200 | 5,200 | 1,300 | 6,600 | 2,400 | |
| | 08/22/96 | 19.12 | | 80.88 | 37,000 | 5,700 | | 5,100 | 3,500 | 960 | 4,500 | <200 | 3.0 |
| | 11/27/96 | 16.61 | Sheen | 83.39 | 54,000 | 10,000 | | 9,800 | 7,000 | 1,800 | 7,900 | <2,000 | 3.1 |
| | 03/20/97 | 15.39 | | 84.61 | 27,000 | 6,100 | | 3,700 | 2,300 | 580 | 2,800 | <400 | 8.1 |
| | 06/25/97 | 18.62 | | 81.38 | 42,000 | 7,800 ^b | | 7,400 | 3,800 | 1,200 | 5,700 | <200 | 0.9 |
| | 09/17/97 | 19.05 | Sheen | 80.95 | $41,000^{d}$ | 8,900° | | 5,200 | 3,400 | 1,300 | 5,900 | <700 | 1.2 |
| | 12/22/97 | 14.09 | | 85.91 | 47,000 ^d | 6,100 ^e | | 8,500 | 4,600 | 1,800 | 8,400 | <1,200 | 1.2 |
| | 03/18/98 | 10.83 | Sheen | 89.17 | 58,000 ^d | 7,000 ^{e,f} | | 9,300 | 6,100 | 1,800 | 8,200 | <1,100 | 1.1 |
| | 07/14/98 | 16.07 | | 83.93 | $42,000^{d}$ | 5,300 ^{e,f} | | 6,000 | 3,000 | 1,000 | 4,800 | <200 | 1.5 |
| | 09/30/98 | 18.71 | | 81.29 | 22,000 | 2,400 | | 3,600 | 1,300 | 720 | 3,200 | <30 | 1.8 |
| | 12/08/98 | 14.80 | | 85.20 | 32,000 | 3,100 | | 9,200 | 680 | 1,100 | 2,300 | <2,000 | |
| | 03/29/99 | 11.81 | | 88.19 | $28,000^{d}$ | 7,500°.f | | 4,400 | 1,600 | 950 | 4,100 | 410 | 1.86 |
| | 06/29/99 | 19.54 | | 80.46 | $28,000^{d}$ | 3,300 ^e | | 3,500 | 1,100 | 690 | 3,100 | <1,000 | 0.41 |
| | 09/28/99 | 18.61 | | 81.39 | 15,000 ^d | 3,400 ^{e,f} | | 1,200 | 540 | 230 | 2,300 | <36 | 1.18 |
| r 4 4 | 12/10/99 | 16.53 | | 83.47 | 17,000 ^d | 2,500 ^{e,f} | | 1,300 | 780 | 420 | 2,700 | <40 | 0.17 |
| my sheet | 03/23/00 | 13.56 | | 86.44 | 25,000 ^d | $3,100^{i}$ | | 1,900 | 1,100 | 660 | 3,700 | <500 | |
| of sheet. | 09/07/00 | 18.25 | (-) | 81.75 | 62,000 ^{d,g} | 32,000 ^{e,g} | | 5,300 | i 2,300 | 1,500 | 8,400 | <100 | 0.39 |
| MW-3 | 05/25/94 | 13.93 | Sheen | 82.94 | 56,000 | 14,000 | <50,000 | 14,000 | 14,000 | 1,300 | 11,000 | *** | |
| 96.87 | 07/19/94 | 17.04 | | 79.83 | | | | | | | | ••• | |
| | 08/18/94 | 17.75 | | 79.12 | 116,000 | | | 28,300 | 26,000 | 2,400 | 15,000 | | |
| | 11/11/94 | 17.80 | | 79.07 | 89,000 | | | 1,600 | 1,900 | 1,900 | 14,000 | | |
| | 02/27/95 | 11.86 | Sheen | 85.01 | 250,000 | | | 22,000 | 26,000 | 7,800 | 21,000 | | |
| | 05/23/95 | 11.60 | Sheen | 85.27 | 310,000 | | | 18,000 | 17,000 | 4,500 | 2,800 | | |

Table 1. Groundwater Elevation and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

| Well ID | Date | GW | SPH | GW | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO |
|------------|-----------|------------|------|------------|---------------------|----------------------|--------|-----------------|----------------|--------------|---------|-------|--------|
| (TOC) | | Depth (ft) | (ft) | Elev. (ft) | < | | Concer | ntrations in pa | rts per billio | n (μg/L) | | -> | (mg/L) |
| Mw 4 | | | | | | | | | | | | | |
| (| 06/29/99* | | | | *** | | | | | | | | |
| | 09/28/99 | 16.58 | | 80.76 | $24,000^{d}$ | $3,200^{e,f}$ | | 7,500 | 1,200 | 190 | 2,200 | 210 | 14.29* |
| | 12/10/99 | 13.99 | | 83.35 | $47,000^{d}$ | 3,100 ^{e,f} | | 12,000 | 1,800 | 1,000 | 4,400 | <100 | 0.62 |
| | 03/23/00 | 10.22 | | 87.12 | 40,000 ^d | 3,100°,f | | 11,000 | 1,600 | 910 | 3,100 | 690 | |
| | 09/07/00 | 16.40 | | 80.94 | 43,000 ^d | 5,900° | ••• | 10,000 | 1,100 | 1,100 | 3,400 | <450 | 1.04 |
| Trip Blank | 07/14/98 | | | | <50 | <50 | | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | |
| | 09/30/98 | | | | <50 | <50 | | < 0.5 | < 0.5 | <0.5 | < 0.5 | <5.0 | |
| | 12/08/98 | | | | <50 | | *** | < 0.5 | < 0.5 | <0.5 | < 0.5 | <5.0 | |
| | 03/29/99 | | | | <50 | | | < 0.5 | < 0.5 | <0.5 | <0.5 | <5.0 | |
| | 06/29/99 | | | | <50 | | | < 0.5 | < 0.5 | <0.5 | < 0.5 | <5.0 | |
| | 03/23/00 | | | | <50 | | | < 0.5 | < 0.5 | <0.5 | <0.5 | <5.0 | |
| | 09/07/00 | | | | <50 | | | < 0.5 | 1.1 | < 0.5 | 1.1 | < 5.0 | |

Abbreviations:

TOC = Top of casing elevation relative to an aribitrary datum

GW = Groundwater

SPH = Separate-phase hydrocarbons

--- = not observed/not analyzed

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

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

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

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

MTBE = Methyl Tertiary-Butyl Ether by EPA Method 8020

DO = Dissolved oxygen

 $\mu g/L$ = Micrograms per liter, equivalent to parts per billion in water

mg/L = Milligrams per liter, equivalent to parts per million in water

* = Well inaccessible during site visit

Notes:

a = Result has an atypical pattern for diesel analysis

b = Result appears to be a lighter hydrocarbon than diesel

c = There is a >40% difference between primary and confirmation analysis

d = Unmodified or weakly modified gasoline is significant

e = Gasoline range compounds are significant

f = Diesel range compounds are significant; no recognizable pattern

g = lighter than water immiscible sheen is present

h = one to a few isolated peaks present

i = medium boiling point pattern does not match diesel (stoddard solvent)

j = aged diesel? is significant

TOC Elevation of Well MW-4 surveyed relative to an arbitrary site datum by David Hop,

Licensed Surveyor on April 19, 1997

= abnormally high reading due to added hydrogen peroxide

APPENDIX A

Field Data Sheets

WELL DEPTH MEASUREMENTS

| Well ID | Time | Product Depth | Water Depth | Product Thickness | Well Depth | Comments |
|---------|----------|---------------|-------------|----------------------|--|----------|
| MW-1 | 7859 | | 19, 45 | | 27.20 | |
| MW-2 | 1356 | | 18.25 | | 2735 | |
| MW.3 | 1:53 | | 15.61 | | 24.95 | |
| Mw. 4 | 7 ' | | 16.40 | : | 30.11 | |
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| Project Name: | Worthlagien |
|---------------|-------------|
| Measured By: | S Gill |

| P | roject Number: | · | |
|---|----------------|----|------|
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| Project Name: Hatrant worthing to | Cambria Mgr: RAS | Well ID: MW- 1 | |
|-----------------------------------|-------------------------|---------------------------|--|
| Project Number: 180-0214 | Date: 09-07-00 | Well Yield: | |
| Site Address: | Sampling Method: | Well Diameter: "pvc 4 | |
| 1482 Harrison St Oakland, CA | Disposable bailer | Technician(s): | |
| Initial Depth to Water: 19.45 | Total Well Depth: 27.20 | Water Column Height: 7.75 | |
| Volume/ft: 0.65 | 1 Casing Volume: 5 | 3 Casing Volumes: 15. | |
| Purging Device: disposable bailer | Did Well Dewater?: Yes | Total Gallons Purged: 5 | |
| Start Purge Time: 3.23 | Stop Purge Time: 3 25 | Total Time: 3 minc | |

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

| Well Diam. | Volume/ft (gallons) |
|------------|---------------------|
| 2" | 0.16 |
| 4" | 0.65 |
| 6" | 1.47 |

| Time | Casing Volume | Temp. C | pН | Cond. uS | Comments |
|------|------------------|------------|-----------|-------------|------------------|
| 3:25 | 5 | 24. 1 | 7.17 | 1394 | |
| | | | | | |
| | | well o | lewater" | | |
| | DTW= 23 | 50 | H noticed | 1 A | 0.39 |
| | | .17 | | Sample | Sample ass taken |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|----------|------|-------------------|--------------|--------------------------------------|----------------------|
| MW- 1 | 09.07.00 | 3:57 | 4 voa's | HCL | TPHg, BTEX, MTBE* Confirm MTBE | 8020 8015 8260 |
| | | | 1 Ambr. | | · | |

| Project Name: Notsyk worthing for | Cambria Mgr: RAS | Well ID: MW- 2 | | |
|-----------------------------------|--------------------------|---------------------------|--|--|
| Project Number: 1840214 | Date: 09-07-00 | Well Yield: | | |
| Site Address: | Sampling Method: | Well Diameter: "pvc 4 | | |
| 1433 Harrison 6t Oamland, CA | Disposable bailer | Technician(s): | | |
| Initial Depth to Water: 18.25 | Total Well Depth: 27, 35 | Water Column Height: 9,19 | | |
| Volume/ft: 0.65 | 1 Casing Volume: 5.91 | 3 Casing Volumes: 17 7 | | |
| Purging Device: disposable bailer | Did Well Dewater?: \// \ | Total Gallons Purged: 7 | | |
| Start Purge Time: 3:00 | Stop Purge Time: 3 0 9 | Total Time: $9min$ | | |

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

| Well Diam. | Volume/ft (gallons) |
|------------|---------------------|
| 2" | 0.16 |
| 4" | 0.65 |
| 6" | 1.47 |

| Time | Casing Volume | Temp. C | рН | Cond. uS | Comments |
|------|------------------|----------------|-------------|-------------|----------------------|
| 7:02 | 5 | 25.1 | 6.30 | 1236 | Stions odes |
| , | | | | | 00-0.17 |
| | | | Jon of | · rafor | globule of |
| OTW | - 20.37 | W C | W to P | Cample SPH | od visual inspection |
| 079 | = 70.39 | Fizzing was | when sample | | miles covered with |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|----------|------|-------------------|--------------|--------------------------------|----------------------|
| MW- 1 | 09.07.00 | 345 | 4 voa's | HCL | TPHg, BTEX, MTBE* Confirm MTBE | 8020 8015 8260 |
| | | | | Ambel | | |
| | | - | | | | |

| Project Name: Hottak washington | Cambria Mgr: RAS | Well ID: MW- 3 | |
|-----------------------------------|-------------------------|---------------------------|--|
| Project Number: | Date: 09.07.00 | Well Yield: | |
| Site Address: | Sampling Method: | Well Diameter: "pvc 2 | |
| Oakumu (A. | Disposable bailer | Technician(s): | |
| Initial Depth to Water: 15.61 | Total Well Depth: 24.95 | Water Column Height: 9.34 | |
| Volume/ft: | 1 Casing Volume: 1, 49 | 3 Casing Volumes: 4, 4 9 | |
| Purging Device: disposable bailer | Did Well Dewater?: | Total Gallons Purged: _5 | |
| Start Purge Time: 2:35 | Stop Purge Time: 2:38 | Total Time: 3 mins | |

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

| Well Diam. | Volume/ft (galions |
|------------|--------------------|
| 2" | 0.16 |
| 4" | 0.65 |
| 6" | 1.47 |

| Time | Casing Volume | Temp. C | pН | Cond. uS | Comments |
|------|------------------|------------|------|-------------|----------|
| 2:36 | C. 5.1 | クシック | 7.19 | 1769 | |
| 2:37 | 7. \$ | <u> </u> | 7.53 | 1265 | |
| 2:39 | 5 | 20.1 | 7.49 | 1261 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | DO - O |
| | | | | | 10= ppm |
| | | | | | |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|----------|------|-------------------|--------------|--------------------------------------|----------------------|
| MW- 3 | 09.27.CV | 2143 | 4 voa's | HCL | TPHg, BTEX, MTBE* Confirm MTBE | 8020 8015 8260 |
| | | | , | From | | |
| | | | | | | |

| Project Name: Phrenk Worthing to | Cambria Mgr: RAS | Well ID: MW- 24 |
|-----------------------------------|-------------------------|-----------------------------|
| Project Number: 1811 0211 | Date: 09-07-00 | Well Yield: |
| Site Address: | Sampling Method: | Well Diameter: "pvc 2 |
| Oddard Off. | Disposable bailer | Technician(s): |
| Initial Depth to Water: 16,40 | Total Well Depth: ろり. 1 | Water Column Height: / ? 7/ |
| Volume/ft: 0.16 | 1 Casing Volume: 2.19 | 3 Casing Volumes: 6, 53 |
| Purging Device: disposable bailer | Did Well Dewater?: | Total Gallons Purged: 7 |
| Start Purge Time: 2:16 | Stop Purge Time: 2:20 | Total Time: 4 |

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

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

| Time | Casing Volume | Temp. C | pН | Cond. uS | Comments |
|------|------------------|------------|------|-------------|---------------|
| 217 | J | 26.1 | 743 | 1038 | |
| 2:18 | 4 | 24.9 | 7.16 | 1003 | |
| 2:21 | | 23.0 | 7.03 | 1018 | |
| | | | • | | |
| | | | | | |
| | | | | | |
| | · | | | | 100 = 104 ms/ |
| | | - | | | |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|----------|-------|-------------------|--------------|--------------------------------------|----------------------|
| MW- 4 | 09-07-00 | 2: 26 | 4 voa's | HCL | TPHg, BTEX, MTBE* Confirm MTBE | 8020 8015 8260 |
| | | | / | Emiger | | |
| | | | | | | |
| | | | | | | |

APPENDIX B

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: #130-0105; | Date Sampled: 09/07/2000 |
|---------------------------------------|-------------------------------|----------------------------|
| 1144 65 th Street, Suite C | Worthington | Date Received: 09/11/2000 |
| Oakland, CA 94608 | Client Contact: Cathy Bell | Date Extracted: 09/11/2000 |
| | Client P.O: | Date Analyzed: 09/11/2000 |

09/18/2000

Dear Cathy:

Enclosed are:

- 1). the results of 5 samples from your #130-0105; Worthington project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly

Edward Hamilton, Lab Director

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: #130-0105; | Date Sampled: 09/07/2000 | | | | | | |
|----------------------------------|-------------------------------|----------------------------------|--|--|--|--|--|--|
| 1144 65th Street, Suite C | Worthington | Date Received: 09/11/2000 | | | | | | |
| Oakland, CA 94608 | Client Contact: Cathy Bell | Date Extracted: 09/12-09/15/2000 | | | | | | |
| | Client P.O: | Date Analyzed: 09/12-09/15/2006 | | | | | | |

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)

| Lab ID | Client ID | Matrix | TPH(g) ⁺ | МТВЕ | Benzene | Toluene | Ethyl- benzene | Xylenes | % Recovery Surrogate |
|--|---------------------------------|--------|---------------------|--------|----------|---------|-------------------|---------|-------------------------|
| 47171 | MW-1 | W | 40,000,a,h | ND<50 | 3700 | 1400 | 910 | 4900 | 107 |
| 47172 | MW-2 | W | 62,000,a,h | ND<100 | 5300 | 2300 | 1500 | 8400 | 104 |
| 47173 | MW-3 | w | 100,000,a,h | ND<500 | 17,000 | 12,000 | 1600 | 11,000 | 100 |
| 47174 | MW-4 | w | 43,000,a | ND<450 | 10,000 | 1100 | 1100 | 3400 | 98 |
| 47175 | ТВ | W | ND | ND | ND | 1.1 | ND | 1.1 | 115 |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| otherwi | g Limit unless se stated; ND | W | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| means not detected above the reporting limit | | S | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

^{*} 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

*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.



f cluttered chromatogram; sample peak coelutes with surrogate peak

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: #130-0105; | Date Sampled: 09/07/2000 | | | | | | | | | |
|---|-------------------------------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 1144 65 th Street, Suite C | Worthington | Date Received: 09/11/2000 | | | | | | | | | |
| Oakland, CA 94608 | Client Contact: Cathy Bell | Date Extracted: 09/12-09/13/2000 | | | | | | | | | |
| | Client P.O: | Date Analyzed: 09/12-09/13/2000 | | | | | | | | | |
| Diesel Pange (C10 C23) Extractable Hydrogarbons as Diesel * | | | | | | | | | | | |

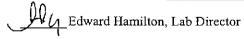
Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

| Lab ID | o ID Client ID Matrix | | ient ID Matrix TPH(d) ⁺ | | | | | | | |
|----------------------------------|-----------------------|-----|------------------------------------|-----|--|--|--|--|--|--|
| 47171 | MW-1 | w | 12,000,d,h | 105 | | | | | | |
| 47172 | MW-2 | w | 32,000,d,h | 113 | | | | | | |
| 47173 | MW-3 | W | 19,000,d,b,h | 107 | | | | | | |
| 47174 | 7174 MW-4 W | | 5900,d | 111 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Reporting Limit stated; ND means | unless otherwise | w | 50 ug/L | | | | | | | |
| the report | ting limit | S . | 1.0 mg/kg | | | | | | | |

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

^{*}The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



^{*} 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.

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

QC REPORT

Date:

09/12/00

Matrix:

Water

Extraction:

N/A

| | | Concent | %Red | | | | | | | | | |
|-----------------|---------|--------------------|----------|------------------|----------|-----|------|--|--|--|--|--|
| Compound | Sample | MS | MSD | Amount Spiked | MS | MSD | RPD | | | | | |
| SampleID: 40793 | | | ıment: G | ment: GC-3 | | | | | | | | |
| Surrogate1 | 0.000 | 98.0 | 100.0 | 100.00 | 98 | 100 | 2.0 | | | | | |
| Xylenes | 0.000 | 281.0 | 281.0 | 300.00 | 94 | 94 | 0.0 | | | | | |
| Ethyl Benzene | 0.000 | 94.0 | 94.0 | 100.00 | 94 | 94 | 0.0 | | | | | |
| Toluene | 0.000 | 96.0 | 98.0 | 100.00 | 96 | 98 | 2.1 | | | | | |
| Benzene | . 0.000 | 100.0 | 102.0 | 100.00 | 100 | 102 | 2.0 | | | | | |
| MTBE | 0.000 | 102.0 | 105.0 | 100.00 | 102 | 105 | 2.9 | | | | | |
| GAS | 0.000 | 838.8 | 825.9 | 1000.00 | 84 | 83 | 1.6 | | | | | |
| SampleID: 9800 | | Instrument; GC-2 A | | | | | | | | | | |
| Surrogate1 | 0.000 | 110.0 | 105.0 | 100.00 | 110 | 105 | 4.7 | | | | | |
| TPH (diesel) | 0.000 | 331.0 | 296.0 | 300.00 | 110 | 99 | 11.2 | | | | | |
| SampleID: 91200 | | | | Instru | ment: IF | ₹-1 | | | | | | |
| TRPH | 0.000 | 27.8 | 28.7 | 23.70 | 117 | 121 | 3.2 | | | | | |

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

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

21901 20205 doc

| McCAMPBELL ANALYTICAL INC. | | | | | | | | | 1. | | | | | CF | ΙĀ | IN | Ō | FC | `[] | ТР | 'n | 'n | 7 R | FC | 'n | RΓ | | | <u> </u> | | | | |
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| 110 2 nd AVENUE SOUTH, #D7 PACHECO, CA 94553 | | | | | | | | | | | | CHAIN OF CUSTODY RECORD TURN AROUND TIME | | | | | | | | | | a | | | | | | | | | | | |
| Telephor | ne: (925) 798 | | ECO, CA | 94553 | F | ax: (! | 925) | 798 | -162 | 2 | | | | RUSH 24 HOUR 48 HO | | | | | | | | | | | | | | | | | | | |
| | by Bell | | E | Bill To | | | | | Λv. | | ech | - | | | | | | | | | | | | | Comm | | | | | | | | |
| Company: Cambria Environmental Technology | | | | | | | | | | | • | | T | | | | | Ť | | Ť | | T | \neg | ! | | | | - | | 十 | | | |
| 1144 65 th Street, Suite C | | | | | | | | | | | 1 | | Total Petroleum Oil & Grease (5520 E&F/B&F) | | | | | | | | | | | | | | - | 1 | | | | | |
| Oakland, CA 94608 | | | | | | | | | | MTBE | | &F/ | | ł | | | - { | | | ≘ | | ŀ | | | | | | ł | | | | | |
| Tele: (510) 420-07 | 00 | | | ax: (5 | | | | | | | | | اچ آ | | 30 E | 8.1) | | | | | | | ∞ ○ | | | | | | | ł | | 7 | |
| Project #: 130 | - 0105 | | P | rojec | Nam | ie: / | 10 | 44 | عمد | ot: | ν\ | | 8015) | | (55. | s (41 | | 6 | - | | | | 1 2 | | | | | | | | - 1 | | |
| Project Location: | 3055, | <u>35th</u> | <u>Si.</u> | _Ca | Kla | $\Delta \alpha$ | الـوــــ | Cir_ | | | | | /8020 ÷ | | case | pop | | 802 | | | | | ĝ | 1 | ŀ | 10) | li | | | | - } | | |
| Sampler Signature: | 2, | J.N.C | | | · · · · · · · | , | | | | N / 1 | rim Ltd | | 88 | | ្ន | 100 | 1 | 205 | | 0.5 | ွှ | | EPA 625 / 8270 / 8310 | | | 2/60 | | | | | | | |
| | | SAMI | PLING | | 15 | 1 | MAI | RIX | | PRE | ETHC SERV | /ED | Gas (602 | TPH as Diesel (8015) | <u>5</u> | Total Petroleum Hydrocarbons (418.1) | | BTEX ONLY (EPA 602 / 8020) | | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | - [1 | | | | Lead (7240/7421/239.2/6010) | | | | | | | i |
| | | | | E G | Type Containers | П | | | | | | | ង | 89 | Ĕ | E | 8 | × | 8 | 8 | 240 | 22 | PAH's / PNA's by | Sign | sie | 7421 | | | | | | | |
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| MW-1 | , | c9-07-00 | 377 | 5 | Vcc5 | K | _ | | | | | | X | メ | | | | | _ | \dashv | 1 | \dashv | + | \top | | | | \neg | <i>-</i> | | | 7171 | · · · · · · · · · · · · · · · · · · · |
| MW-2 | <u> </u> | | 3:45 | 1 | (1411) | | | | | | | | IT | | | | | | | 1. | | \top | _ | \top | | | | | ر ا ا – | | 47 | 172 | (4) |
| MW-3 | | | 2:43 | | | \prod | | 1 | | | | | 1 | | | | | | | | | | 1 | \top | | | | 1 | | | | | (4) |
| MW-4 | . — | | 2:26 | | | | | | | | | | ₩ | V | | | | | | | | | | | | | | | 4 * \$ | | | <u> 173</u> | |
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