

CAMBRIA

4070

July 6, 2001

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

JUL 11 2001

Re: **First Quarter 2001 Monitoring Report**
Douglas Parking
1721 Webster Street
Oakland, California
Cambria Project No. 580-0197



Dear Mr. Douglas:

This report summarizes the first quarter 2001 groundwater monitoring results for the above-referenced site. Presented in the report are the first quarter 2001 activities and the anticipated second quarter 2001 activities.

If you have any questions or comments, please call me at (510) 420-3340.

Sincerely,
Cambria Environmental Technology, Inc.

John Riggi, R.G.
Project Geologist

Attachments: First Quarter 2001 Monitoring Report

cc: Mr. Larry Seto, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502
Mr. Hari Patel, Technical Review Unit, UST Cleanup Fund, 1001 I Street, Sacramento, CA 94244

Oakland, CA
San Ramon, CA
Sonoma, CA

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C A M B R I A

FIRST QUARTER 2001 MONITORING REPORT

Douglas Parking
1721 Webster Street
Oakland, California
Cambria Project No. 580-0917

July 6, 2001



Prepared for:

Mr. Lee Douglas
1721 Webster Street
Oakland, California 94612

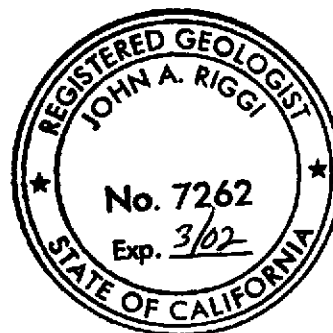
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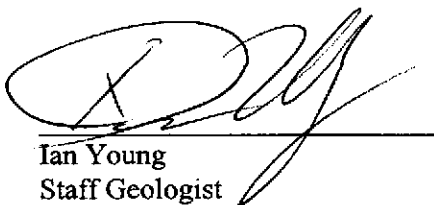
Cambria Environmental Technology, Inc.
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Oakland, California 94608

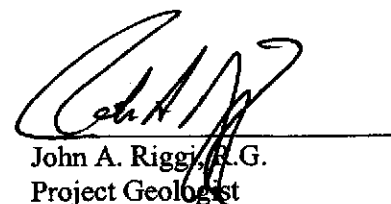
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Ian Young
Staff Geologist


John A. Riggi, E.G.
Project Geologist

C A M B R I A

FIRST QUARTER 2001 MONITORING REPORT

Douglas Parking
1721 Webster Street
Oakland, California
Cambria Project No. 580-0917

July 6, 2001

INTRODUCTION



On behalf of Douglas Parking, Cambria Environmental Technology, Inc. (Cambria) is submitting this first quarter 2001 groundwater monitoring report for the above-referenced site. Presented below are the first quarter 2001 activities and the anticipated second quarter 2001 activities.

FIRST QUARTER 2001 ACTIVITIES

Monitoring Activities

Field Activities: On January 12, 2001, Cambria gauged water levels, inspected for separate-phase hydrocarbons (SPHs), and monitored dissolved oxygen (DO) concentrations in monitoring wells MW-1 through MW-5. Groundwater samples were collected from the monitoring wells MW-2, MW-3, MW-4 and MW-5. Well MW-1 is not part of the sampling schedule. Field data sheets are presented as Appendix A.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) using modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylene (BTEX) and methyl tert-butyl ether (MTBE) using EPA Method 8020 by McCampbell Analytical, Inc. of Pacheco, California. MTBE was analyzed by EPA Method 8260 to confirm the analytical results detected by EPA Method 8020 in groundwater samples collected from well MW-2. The laboratory analytical report is included as Appendix B.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water data collected during Cambria's January 12, 2001 site visit, groundwater beneath the site flows predominantly toward the northeast with an average gradient of 0.006 ft/ft (Figure 1). This flow direction is consistent with the historical groundwater flow direction for this site. Depth-to-water and groundwater elevation data are presented in Table 1.

Hydrocarbon Distribution in Groundwater: Hydrocarbon distribution in groundwater for the first quarter 2001 is consistent with historic site data, assuming that the results for offsite wells MW-4 and MW-5 are anomalous. No SPHs or MTBE were detected in site monitoring wells. The maximum detected TPHg and benzene concentrations were 25,000 micrograms per liter ($\mu\text{g/l}$) and 2,700 $\mu\text{g/l}$, respectively, in well MW-2. Benzene was detected in well MW-3 at 4.3 $\mu\text{g/l}$. Analytical results for monitoring wells MW-4 and MW-5 are anomalous when compared to historical results, and are not interpreted for the purposes of this quarterly report. Second quarter 2001 groundwater sampling will be used to evaluate groundwater conditions in wells MW-4 and MW-5. The analytical results are summarized on Table 1.



ANTICIPATED SECOND QUARTER 2001 ACTIVITIES

Monitoring Activities

Cambria will gauge the site wells, check the wells for SPHs, and collect groundwater samples from monitoring wells not containing SPHs. If MTBE is detected, concentrations will be confirmed using EPA Method 8260. Following field activities, Cambria will tabulate the data, contour site groundwater elevations, and prepare a groundwater monitoring report.

Corrective Action Activities

Cambria has prepared a *Feasibility Testing and Feasibility Study Proposal* for UST Cleanup Fund approval. Upon UST Cleanup Fund approval, Cambria will initiate soil vapor extraction and air sparging pilot testing, and evaluate the feasibility of air sparging and soil vapor extraction at the subject site.

Appendices

Figure 1 – Groundwater Elevation Contours and Hydrocarbon Concentration Map

Table 1 – Groundwater Elevation and Analytical Data

Appendix A – Field Data Sheets

Appendix B – Laboratory Analytical Report

EXPLANATION

● Groundwater Monitoring Well

SB-A ● Soil Boring Location

Well
ELEV
Benzene

Well ID

Groundwater Elevation

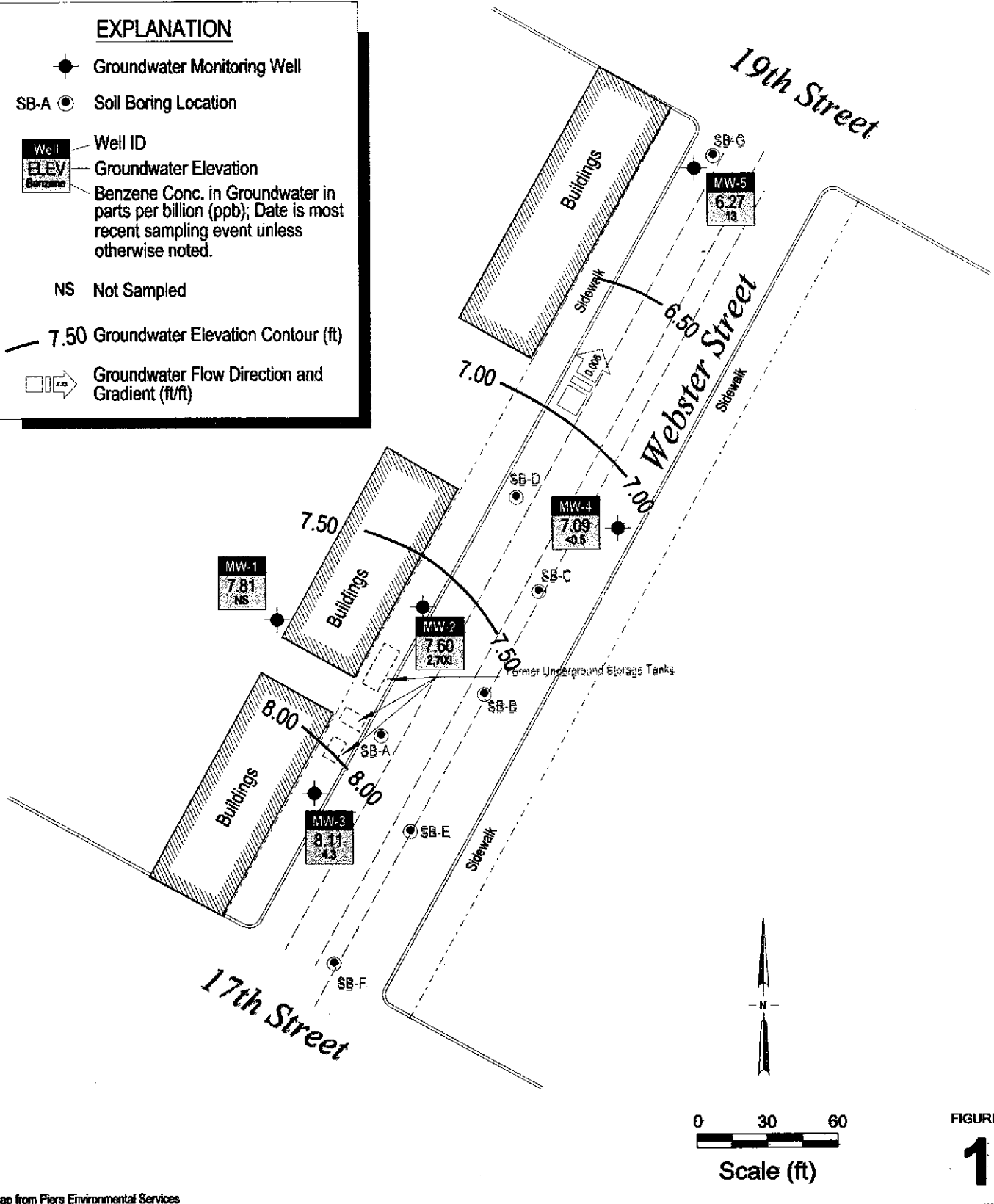
Benzene Conc. in Groundwater in parts per billion (ppb); Date is most recent sampling event unless otherwise noted.

NS Not Sampled

— 7.50 Groundwater Elevation Contour (ft)



Groundwater Flow Direction and Gradient (ft/ft)



1198-2004DOUGLAS1721 Webster FIGURES110001.MP.DWG

Base map from Piers Environmental Services

Douglas Parking Facility
1721 Webster Street
Oakland, California



**Groundwater Elevation
Contour Map**
January 12, 2001

FIGURE
1

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

| Well ID | Date | TOC Elevation (ft-msl) | Depth to Water (ft) | Groundwater Elevation (ft) | (Concentrations in µg/l) | | | | | | DO (mg/L) | Notes |
|------------------|--------------|---------------------------|------------------------|-------------------------------|--------------------------|---------|---------|--------------|---------|-------------|--------------|-------|
| | | | | | ← | Benzene | Toluene | Ethylbenzene | Xylenes | → | | |
| MW-1 | 12/2/1994 | 29.25 | 19.42 | 9.83 | nd | nd | nd | nd | nd | - | - | 1 |
| | 3/6/1995 | 29.73 | 20.69 | 9.04 | nd | nd | nd | nd | nd | - | - | 1 |
| | 7/11/1995 | 29.81 | 20.65 | 9.16 | nd | nd | nd | nd | nd | - | - | |
| | 5/10/1996 | 29.81 | 20.80 | 9.01 | nd | nd | nd | nd | nd | - | - | |
| | 10/2/1996 | 29.81 | 21.35 | 8.46 | - | - | - | - | - | - | - | 2 |
| | 2/28/1997 | 29.81 | 20.57 | 9.24 | - | - | - | - | - | - | - | 2 |
| | 9/16/1997 | 29.81 | 21.50 | 8.31 | - | - | - | - | - | - | - | 2 |
| | 2/5/1998 | 29.81 | 20.91 | 8.90 | - | - | - | - | - | - | 1.90 | 2 |
| | 8/11/1998 | 29.81 | 20.50 | 9.31 | - | - | - | - | - | - | 0.06 | 2 |
| | 2/8/1999 | 29.81 | 21.42 | 8.39 | - | - | - | - | - | - | 6.00 | 2, 3 |
| | 2/24/1999 | 29.81 | 22.99 | 6.82 | - | - | - | - | - | - | 2.00 | 2, 3 |
| | 3/3/1999 | 29.81 | 20.84 | 8.97 | - | - | - | - | - | - | 3.80 | 2, 3 |
| | 3/10/1999 | 29.81 | 20.89 | 8.92 | - | - | - | - | - | - | 3.40 | 2, 3 |
| | 3/17/1999 | 29.81 | 20.84 | 8.97 | - | - | - | - | - | - | 2.80 | 2, 3 |
| | 5/4/1999 | 29.81 | 20.80 | 9.01 | - | - | - | - | - | - | 3.50 | 2 |
| | 7/20/1999 | 29.81 | 21.25 | 8.56 | - | - | - | - | - | - | 3.07 | 2 |
| | 10/5/1999 | 29.81 | 21.37 | 8.44 | - | - | - | - | - | - | 5.40 | 2 |
| | 1/7/2000 | 29.81 | 21.65 | 8.16 | - | - | - | - | - | - | 2.10 | 2 |
| | 4/6/2000 | 29.81 | 21.05 | 8.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 3.90 | 4 |
| | 7/31/2000 | 29.81 | 21.13 | 8.68 | - | - | - | - | - | - | 1.80 | 2 |
| 10/3/2000 | 29.81 | 21.69 | 8.12 | - | - | - | - | - | - | 1.42 | 2 | |
| 1/12/2001 | 29.81 | 22.00 | 7.81 | - | - | - | - | - | - | 0.68 | | |
| MW-2 | 12/2/1994 | 27.10 | 19.50 | 7.60 | 61,300 | 3,000 | 3,900 | 160 | 4,500 | - | - | 1 |
| | 3/6/1995 | 27.10 | 18.49 | 8.61 | 98,000 | 8,400 | 16,000 | 2,000 | 2,600 | - | - | 1 |
| | 7/11/1995 | 27.40 | 18.45 | 8.95 | 38,000 | 3,100 | 7,500 | 940 | 3,700 | - | - | |
| | 5/10/1996 | 27.40 | 18.56 | 8.84 | 63,000 | 7,400 | 16,000 | 1,500 | 6,000 | - | - | |
| | 10/2/1996 | 27.40 | 19.15 | 8.25 | 21,000 | 2,200 | 3,400 | 430 | 1,600 | - | - | |
| | 2/28/1997 | 27.40 | 18.43 | 8.97 | 39,000 | 4,700 | 9,600 | 950 | 4,200 | nd | - | |
| | 9/16/1997 | 27.40 | 19.26 | 8.14 | 29,000 | 3,300 | 5,800 | 690 | 2,900 | <620 | - | |
| | 2/5/1998 | 27.40 | 18.66 | 8.74 | 10,000 | 1,000 | 2,000 | 170 | 860 | <330 | 7.90 | |

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

| Well ID | Date | TOC Elevation (ft-msl) | Depth to Water (ft) | Groundwater Elevation (ft) | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO | Notes |
|---------|------------------|---------------------------|------------------------|-------------------------------|--------------------------|--------------|--------------|--------------|--------------|-------------------------|-------------|-------|
| | | | | | (Concentrations in µg/l) | | | | | | (mg/L) | |
| | 8/11/1998 | 27.40 | 18.41 | 8.99 | 12,000 | 1,200 | 2,300 | 260 | 1,400 | 300 | 5.40 | |
| | 2/8/1999 | 27.40 | 19.84 | 7.56 | 5,500 | 740 | 1,200 | 150 | 780 | 60 | 3.70 | |
| | 2/17/1999 | 27.40 | 18.94 | 8.46 | - | - | - | - | - | - | >20 | 3, 5 |
| | 2/24/1999 | 27.40 | 20.76 | 6.64 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/3/1999 | 27.40 | 18.55 | 8.85 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/10/1999 | 27.40 | 20.74 | 6.66 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/17/1999 | 27.40 | 18.57 | 8.83 | - | - | - | - | - | - | >20 | 3, 5 |
| | 5/4/1999 | 27.40 | 18.55 | 8.85 | 90,000 | 9,200 | 21,000 | 1,600 | 10,000 | 560 | 3.20 | |
| | 7/20/1999 | 27.40 | 18.98 | 8.42 | 28,000 | 2,100 | 3,700 | 900 | 4,200 | <860 | 0.64 | |
| | 10/5/1999 | 27.40 | 19.10 | 8.30 | 11,000 | 870 | 180 | 30 | 1,400 | <110 | 0.58 | |
| | 1/7/2000 | 27.40 | 19.41 | 7.99 | 15,000 | 1,300 | 2,100 | 440 | 1,800 | <14 | 0.94 | |
| | 4/6/2000 | 27.40 | 18.80 | 8.60 | 17,000 | 1,800 | 3,100 | 500 | 2,200 | <50 | 0.64 | |
| | 7/31/2000 | 27.40 | 18.87 | 8.53 | 17,000 | 1,500 | 2,700 | 430 | 2,100 | <200 | 0.50 | |
| | 10/3/2000 | 27.40 | 19.45 | 7.95 | 27,000 | 2,500 | 4,000 | 660 | 2,900 | <50 | 0.16 | |
| | 1/12/2001 | 27.40 | 19.80 | 7.60 | 25,000 | 2,700 | 4,100 | 670 | 3,000 | <200 (<10) | 0.35 | |
| MW-3 | 12/2/1994 | 29.50 | 22.15 | 7.35 | 394,000 | 1,200 | nd | 1,800 | 4,000 | - | - | 1 |
| | 3/6/1995 | 29.25 | 20.09 | 9.16 | 21,000 | 400 | 150 | 24 | 62 | - | - | 1 |
| | 7/11/1995 | 29.56 | 19.99 | 9.57 | 12,000 | nd | 10 | 16 | 99 | - | - | |
| | 5/10/1996 | 29.56 | 20.24 | 9.32 | 8,600 | nd | 7.6 | 16 | 84 | - | - | |
| | 10/2/1996 | 29.56 | 20.90 | 8.66 | 11,000 | nd | 7.4 | 19 | 92 | - | - | |
| | 2/28/1997 | 29.56 | 20.12 | 9.44 | 6,000 | nd | 4.4 | 17 | 88 | 50 | - | |
| | 9/16/1997 | 29.56 | 20.97 | 8.59 | 6,500 | <0.5 | 1 | 1 | 7 | <5.0 | - | |
| | 2/5/1998 | 29.56 | 20.39 | 9.17 | 5,400 | <0.5 | 6.3 | 15 | 86 | <63 | 1.90 | |
| | 8/11/1998 | 29.56 | 19.95 | 9.61 | 2,700 | <0.5 | 3.5 | 3.2 | 12 | <10 | 0.05 | |
| | 2/8/1999 | 29.56 | 20.58 | 8.98 | 6,100 | <0.5 | 8.1 | 18 | 80 | <140 | 2.20 | |
| | 2/17/1999 | 29.56 | 20.53 | 9.03 | - | - | - | - | - | - | >20 | 3, 5 |
| | 2/24/1999 | 29.56 | 22.53 | 7.03 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/3/1999 | 29.56 | 20.28 | 9.28 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/10/1999 | 29.56 | 22.45 | 7.11 | - | - | - | - | - | - | >20 | 3, 5 |
| | 3/17/1999 | 29.56 | 20.26 | 9.30 | - | - | - | - | - | - | >20 | 3, 5 |

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

| Well ID | Date | TOC Elevation (ft-msl) | Depth to Water (ft) | Groundwater Elevation (ft) | TPHg | (Concentrations in µg/l) | | | | | DO (mg/L) | Notes | |
|---------|------------------|---------------------------|------------------------|-------------------------------|---------------|--------------------------|----------------|----------------|----------------|----------------|----------------|-------------|----------|
| | | | | | | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | | | |
| | 5/4/1999 | 29.56 | 20.24 | 9.32 | 11,000 | <2 | <2 | 9.8 | 140 | <10 | 3.10 | | |
| | 7/20/1999 | 29.56 | 20.68 | 8.88 | 11,000 | <0.5 | 3.1 | 13 | 88 | <80 | 0.75 | | |
| | 10/5/1999 | 29.56 | 20.81 | 8.75 | 31,000 | 62 | <0.5 | 21 | 170 | <90 | 0.68 | | |
| | 1/7/2000 | 29.56 | 21.09 | 8.47 | 13,000 | <0.5 | <2 | 21 | 140 | <80 | 1.96 | | |
| | 4/6/2000 | 29.56 | 20.48 | 9.08 | 5,300 | 1.5 | 1.4 | 9.8 | 60 | <30 | 4.15 | | |
| | 7/31/2000 | 29.56 | 20.62 | 8.94 | 7,100 | 3.5 | 1.0 | 12 | 66 | <5.0 | 0.35 | | |
| | 10/3/2000 | 29.56 | 21.13 | 8.43 | 8,000 | <0.5 | 3.3 | 11 | 70 | <40 | 3.66 | | |
| | 1/12/2001 | 29.56 | 21.45 | 8.11 | 11,000 | 4.3 | 6.7 | 11 | 73 | <70 | 0.35 | | |
| MW-4 | 5/10/1996 | 25.29 | 16.98 | 8.31 | 14,000 | nd | 1,200 | 720 | 3,100 | - | - | | |
| | 10/2/1996 | 25.29 | 17.65 | 7.64 | 12,000 | nd | 650 | 580 | 2,200 | - | - | | |
| | 2/28/1997 | 25.29 | 16.80 | 8.49 | 13,000 | nd | 1,100 | 750 | 2,700 | 110 | - | | |
| | 9/17/1997 | 25.29 | 17.93 | 7.36 | 13,000 | <2.5 | 820 | 750 | 2,900 | <190 | - | | |
| | 2/5/1998 | 25.29 | 16.78 | 8.51 | 13,000 | <1.0 | 690 | 690 | 2,900 | <170 | 2.10 | | |
| | 8/11/1998 | 25.29 | 16.59 | 8.70 | 15,000 | <5 | 360 | 520 | 1,900 | 280 | 2.80 | | |
| | 2/8/1999 | 25.29 | 17.10 | 8.19 | 9,800 | <5 | 680 | 770 | 2,200 | 300 | 1.80 | 3 | |
| | 2/24/1999 | 25.29 | 18.95 | 6.34 | - | - | - | - | - | - | 2.20 | 3 | |
| | 3/3/1999 | 25.29 | 16.80 | 8.49 | - | - | - | - | - | - | 4.60 | 3 | |
| | 3/10/1999 | 25.29 | 16.86 | 8.43 | - | - | - | - | - | - | 3.70 | 3 | |
| | 3/17/1999 | 25.29 | 16.82 | 8.47 | - | - | - | - | - | - | 4.30 | 3 | |
| | 5/4/1999 | 25.29 | 16.86 | 8.43 | 11,000 | 46 | 600 | 620 | 1,900 | <100 | 4.10 | | |
| | 7/20/1999 | 25.29 | 17.30 | 7.99 | 13,000 | <0.5 | 470 | 7.0 | 2,000 | <150 | 0.38 | | |
| | 10/5/1999 | 25.29 | 17.43 | 7.86 | 18,000 | 4.4 | 720 | 800 | 2,100 | <120 | 0.71 | | |
| | 1/7/2000 | 25.29 | 17.78 | 7.51 | 18,000 | <2 | 930 | 990 | 2,700 | <30 | 0.98 | | |
| | 4/6/2000 | 25.29 | 17.17 | 8.12 | 8,000 | 31 | 390 | 530 | 1,300 | <10 | 1.33 | | |
| | 7/31/2000 | 25.29 | 17.21 | 8.08 | 6,200 | 13 | 170 | 460 | 850 | <10 | 0.50 | | |
| | 10/3/2000 | 25.29 | 18.00 | 7.29 | 14,000 | 42 | 820 | 730 | 2,000 | <50 | 0.54 | | |
| | | 1/12/2001 | 25.29 | 18.20 | 7.09 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 0.39 | 6 |

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

| Well ID | Date | TOC Elevation (ft-msl) | Depth to Water (ft) | Groundwater Elevation (ft) | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO | Notes |
|---------|-----------|---------------------------|------------------------|-------------------------------|------------------------------|---------|---------|--------------|---------|--------|------|-------------------|
| | | | | | ← (Concentrations in µg/l) → | | | | | (mg/L) | | |
| MW-5 | 5/10/1996 | 21.97 | 14.60 | 7.37 | nd | nd | nd | nd | nd | - | - | |
| | 10/2/1996 | 21.97 | 15.25 | 6.72 | nd | nd | nd | nd | nd | - | - | |
| | 2/28/1997 | 21.97 | 14.31 | 7.66 | nd | nd | nd | nd | nd | nd | - | |
| | 9/17/1997 | 21.97 | 15.18 | 6.79 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | - | |
| | 2/5/1998 | 21.97 | 13.64 | 8.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 2.80 | |
| | 8/11/1998 | 21.97 | 13.92 | 8.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 0.05 | |
| | 2/8/1999 | 21.97 | 14.19 | 7.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 3.00 | |
| | 2/24/1999 | 21.97 | 16.18 | 5.79 | - | - | - | - | - | - | 4.90 | 3 |
| | 3/3/1999 | 21.97 | 14.23 | 7.74 | - | - | - | - | - | - | 3.40 | 3 |
| | 3/10/1999 | 21.97 | 14.32 | 7.65 | - | - | - | - | - | - | 3.60 | 3 |
| | 3/17/1999 | 21.97 | 14.25 | 7.72 | - | - | - | - | - | - | 3.90 | 3 |
| | 5/4/1999 | 21.97 | 14.41 | 7.56 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 3.20 | |
| | 7/20/1999 | 21.97 | 14.44 | 7.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 0.99 | |
| | 10/5/1999 | 21.97 | 14.79 | 7.18 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 1.52 | |
| | 1/7/2000 | 21.97 | 15.23 | 6.74 | - | - | - | - | - | - | - | Well inaccessible |
| | 4/6/2000 | 21.97 | 14.74 | 7.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 1.67 | |
| | 7/31/2000 | 21.97 | 14.52 | 7.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 2.55 | |
| | 10/3/2000 | 21.97 | 15.37 | 6.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 1.51 | |
| | 1/12/2001 | 21.97 | 15.70 | 6.27 | 6,400 | 13 | 290 | 450 | 1,100 | <40 | 0.71 | 6 |

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

| Well ID | Date | TOC Elevation (ft-msl) | Depth to Water (ft) | Groundwater Elevation (ft) | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DO (mg/L) | Notes |
|-------------------|-----------------|---------------------------|------------------------|-------------------------------|--|---------|---------|--------------|---------|------|--------------|-------|
| | | | | | ←————— (Concentrations in µg/l) —————→ | | | | | | | |
| Trip Blank | 01/12/01 | - | - | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | - | |

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 (by EPA Method 8260 in parentheses).

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 (no hydrocarbon analyses), as described in November 11, 1998 Remedial Workplan.

4 = Sampled well once to confirm well is still not impacted.

5 = Hydrogen peroxide injection occurring per our Remedial Workplan, dated November 11, 1998.

6 = Analytical results not consistent with historical data.

ATTACHMENT A

Field Data Sheets

CAMBRIA

WELL SAMPLING FORM

| | | |
|--|--------------------------------|-----------------------------------|
| Project Name: <i>Douglas Packing</i> | Cambria Mgr: <i>JR</i> | Well ID: MW- <i>4</i> |
| Project Number: <i>580-0197</i> | Date: <i>1-18-01</i> | Well Yield: ---- |
| Site Address: <i>1712 Webster st Oakland</i> | Sampling Method: | Well Diameter: <i>2" pvc</i> |
| | <i>Disposable bailer</i> | Technician(s): <i>SG</i> |
| Initial Depth to Water: <i>29.20</i> | Total Well Depth: <i>18.20</i> | Water Column Height: <i>11.00</i> |
| Volume/ft: <i>0.16</i> | 1 Casing Volume: <i>1.76</i> | 3 Casing Volumes: <i>5.28</i> |
| Purging Device: <i>disposable bailer</i> | Did Well Dewater?: <i>no</i> | Total Gallons Purged: <i>5</i> |
| Start Purge Time: <i>8:10</i> | Stop Purge Time: <i>8:14</i> | Total Time: <i>4mins</i> |

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 | pH | Cond. uS | Comments |
|-------------|---------------|-------------|-------------|------------|-----------------------|
| <i>8:11</i> | <i>1 1.5</i> | <i>15.2</i> | <i>7.19</i> | <i>694</i> | |
| <i>8:12</i> | <i>2 3</i> | <i>15.7</i> | <i>7.26</i> | <i>578</i> | |
| <i>8:15</i> | <i>3 5</i> | <i>15.9</i> | <i>7.21</i> | <i>542</i> | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | <i>DD = 0.39 mg/l</i> |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|-----------|----------------|-------------|----------------|--------------|---------------------------|------------------|
| MW- | <i>1-12-01</i> | <i>8:18</i> | <i>VOA</i> | <i>HCl</i> | <i>TPHs BTEX MTBE</i> | <i>2015/2020</i> |
| MW- | | | | | | |
| | | | | | | |
| | | | | | | |

CAMBRIA

WELL SAMPLING FORM

| | | |
|--|--------------------------------|----------------------------------|
| Project Name: <u>Douglas Parking</u> | Cambria Mgr: <u>JR</u> | Well ID: <u>MW- 5</u> |
| Project Number: <u>580-0197</u> | Date: <u>1-12-01</u> | Well Yield: <u>----</u> |
| Site Address: <u>1712 Webster St Oakland</u> | Sampling Method: | Well Diameter: <u>2" pvc</u> |
| | <u>Disposable bailer</u> | Technician(s): <u>SG</u> |
| Initial Depth to Water: <u>15.70</u> | Total Well Depth: <u>24.30</u> | Water Column Height: <u>8.60</u> |
| Volume/ft: <u>0.16 0.16</u> | 1 Casing Volume: <u>1.37</u> | 3 Casing Volumes: <u>4.12</u> |
| Purging Device: <u>disposable bailer</u> | Did Well Dewater?: <u>no</u> | Total Gallons Purged: <u>4</u> |
| Start Purge Time: <u>7:55</u> | Stop Purge Time: <u>7:58</u> | Total Time: <u>3min</u> |

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 | pH | Cond. uS | Comments |
|-------------|---------------|-------------|-------------|------------|-----------------------|
| <u>7:56</u> | <u>1</u> | <u>15.7</u> | <u>7.60</u> | <u>498</u> | |
| <u>7:57</u> | <u>2</u> | <u>15.9</u> | <u>7.81</u> | <u>464</u> | |
| <u>7:59</u> | <u>3</u> | <u>15.4</u> | <u>7.78</u> | <u>416</u> | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | <u>DO = 0.71 mg/L</u> |

| Sample ID | Date | Time | Container Type | Preservative | Analytes | Analytic Method |
|--------------|----------------|-------------|----------------|--------------|---------------------------|------------------|
| <u>MW- 5</u> | <u>1-12-01</u> | <u>8:04</u> | <u>Voa</u> | <u>HCl</u> | <u>TPMG BTEX MTBE</u> | <u>8015/8020</u> |
| <u>MW-</u> | | | | | | |
| | | | | | | |
| | | | | | | |

ATTACHMENT B

Laboratory Analytical Report



McCAMPBELL ANALYTICAL INC.

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 1144 65 th Street, Suite C Oakland, CA 94608 | Client Project ID: #580-0197 | Date Sampled: 01/12/01 |
| | | Date Received: 01/15/01 |
| | Client Contact: John Riggi | Date Extracted: 01/16-01/18/01 |
| | Client P.O: | Date Analyzed: 01/16-01/18/01 |

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) ⁺ | MTBE | Benzene | Toluene | Ethyl-benzene | Xylenes | % Recovery Surrogate |
|--|-----------|--------|---------------------|--------|---------|---------|---------------|---------|----------------------|
| 57894 | MW-2 | W | 25,000,a | ND<200 | 2700 | 4100 | 670 | 3000 | 100 |
| 57895 | MW-3 | W | 11,000,a | ND<70 | 4.3 | 6.7 | 11 | 73 | ...# |
| 57896 | MW-4 | W | ND | ND | ND | ND | ND | ND | 102 |
| 57897 | MW-5 | W | 6400,a | ND<40 | 13 | 290 | 450 | 1100 | 106 |
| 57898 | TB | W | ND | ND | ND | ND | ND | ND | 101 |
| | | | | | | | | | |
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| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | 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

* cluttered chromatogram; sample peak coelutes with surrogate peak

*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.



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QC REPORT

Date: 01/16/01

Matrix: Water

Extraction: TTLC

| Compound | Concentration: ug/L | | | %Recovery | | RPD | |
|------------------|---------------------|---------------------|--------|---------------|-----|-----|-----|
| | Sample | MS | MSD | Amount Spiked | MS | | MSD |
| SampleID: 121800 | | Instrument: GC-3 | | | | | |
| Surrogate1 | 0.000 | 101.0 | 106.0 | 100.00 | 101 | 106 | 4.8 |
| Xylenes | 0.000 | 27.2 | 27.0 | 30.00 | 91 | 90 | 0.7 |
| Ethyl Benzene | 0.000 | 9.2 | 9.2 | 10.00 | 92 | 92 | 0.0 |
| Toluene | 0.000 | 9.4 | 10.1 | 10.00 | 94 | 101 | 7.2 |
| Benzene | 0.000 | 9.5 | 10.3 | 10.00 | 95 | 103 | 8.1 |
| MTBE | 0.000 | 9.6 | 10.3 | 10.00 | 96 | 103 | 7.0 |
| GAS | 0.000 | 81.2 | 78.6 | 100.00 | 81 | 79 | 3.3 |
| SampleID: 11601 | | Instrument: MB-1 | | | | | |
| Oil & Grease | 0.000 | 19.0 | 19.8 | 23.70 | 80 | 84 | 4.1 |
| SampleID: 11701 | | Instrument: GC-11 A | | | | | |
| Surrogate1 | 0.000 | 109.0 | 107.0 | 100.00 | 109 | 107 | 1.9 |
| TPH (cicsei) | 0.000 | 7625.0 | 7625.0 | 7500.00 | 102 | 102 | 0.0 |

$$\% \text{ Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

VOCs (EPA 8240/8260)

Date: 01/22/01-01/23/01 Matrix: Water

Extraction: N/A

| Compound | Sample | Concentration: ug/L | | Amount Spiked | %Recovery | | RPD |
|-------------------------|--------|---------------------|-------|---------------|-----------|-----|-----|
| | | MS | MSD | | MS | MSD | |
| SampleID: 12201 | | Instrument: GC-10 | | | | | |
| Surrogate | 0.000 | 93.0 | 93.0 | 100.00 | 93 | 93 | 0.0 |
| tert-Amyl Methyl Ether | 0.000 | 116.0 | 117.0 | 100.00 | 116 | 117 | 0.9 |
| Methyl tert-Butyl Ether | 0.000 | 115.0 | 116.0 | 100.00 | 115 | 116 | 0.9 |
| Ethyl tert-Butyl Ether | 0.000 | 117.0 | 117.0 | 100.00 | 117 | 117 | 0.0 |
| Di-isopropyl Ether | 0.000 | 121.0 | 120.0 | 100.00 | 121 | 120 | 0.8 |
| Toluene | 0.000 | 100.0 | 100.0 | 100.00 | 100 | 100 | 0.0 |
| Benzene | 0.000 | 109.0 | 110.0 | 100.00 | 109 | 110 | 0.9 |
| Chlorobenzene | 0.000 | 104.0 | 104.0 | 100.00 | 104 | 104 | 0.0 |
| Trichloroethane | 0.000 | 97.0 | 97.0 | 100.00 | 97 | 97 | 0.0 |
| 1,1-Dichloroethene | 0.000 | 130.0 | 131.0 | 100.00 | 130 | 131 | 0.8 |

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2100$$

RPD means Relative Percent Deviation

2400522923

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACIFICCO, CA 94553

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

Report To: ~~John Rissi~~ **John Rissi** Bill To:

Company: Cambria Environmental Technology

6262 Hollis Street

Emeryville, CA 94608

Tele: (510) ~~420-3340~~ 420-3340 Fax: (510) 450-8295

Project #: 580-0197 Project Name: Douglas Parkins

Project Location: 1721 Webster St. Oakland, Ca

Sampler Signature: *J. Rissi*

| SAMPLE ID | LOCATION | SAMPLING | | # Containers | Type Containers | MATRIX | | | | METHOD PRESERVED | | | | | | | |
|-----------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|------------------|-----|-----|------------------|-------|--|--|--|
| | | Date | Time | | | Water | Soil | Air | Sludge | Other | Ice | HCl | HNO ₃ | Other | | | |
| MW-2 | | 1-12-01 | 8:34 | 4 | VOC | X | | | | | X | | | | | | |
| MW-3 | | 1-12-01 | 6:49 | 4 | VOC | X | | | | | X | | | | | | |
| MW-4 | | 1-12-01 | 8:18 | 4 | VOC | X | | | | | X | | | | | | |
| MW-5 | | 1-12-01 | 8:04 | 4 | VOC | X | | | | | X | | | | | | |
| TB | | 1-12-01 | | 7 | VOC | X | | | | | X | | | | | | |

CHAIN OF CUSTODY RECORD

TURN AROUND TIME 24 HOUR 48 HOUR 5 DAY

RUSII 24 HOUR 48 HOUR 5 DAY

Comments

Other

Analysis Request

| Analysis Request | Other | Comments |
|--|-------|----------|
| EPA 624 / 8240 / 8260 <i>MTBS cert. only 1-22-01</i> | | |
| EPA 608 / 8080 PCB'S ONLY | | |
| EPA 608 / 8080 | | |
| BTEX ONLY (EPA 602 / 8020) | | |
| EPA 601 / 8010 | | |
| Total Petroleum Hydrocarbons (418.1) | | |
| Total Petroleum Oil & Grease (5520 E&F/β&F) | | |
| TPH as Diesel (8015) | | |
| BTEX & TPH as Gas (602/8020 + 8015) MTBE | | |
| PAH's / PNA's by EPA 625 / 8270 / 8310 | | |
| CAM-17 Metals | | |
| LUFT 5 Metals | | |
| Lead (7240/7421/239.2/6010) | | |
| RCI | | |
| | 57894 | |
| | 57895 | |
| | 57896 | |
| | 57897 | |
| | 57898 | |

for MW-2 & MW-4
confirm all MTRF
NITS by 8260

| | | | |
|----------------------------------|---------------|-------------|------------------------------|
| Relinquished By: <i>J. Rissi</i> | Date: 1-12-01 | Time: 17:20 | Received By: <i>J. Rissi</i> |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Remarks:

VOA's

PRESERVATION APPROPRIATE

GOOD CONDITION

HEAD SPACE ASSENT

CONTAINERS

VOA's OUGHT TO BE CHECK

If NO press then call John Rissi