

**GROUNDWATER MONITORING AND SAMPLING
REPORT**

**EMERYVILLE MAINTENANCE FACILITY
4525 HOLLIS STREET
EMERYVILLE, CALIFORNIA
FIRST QUARTER 1996**

Prepared for

Pacific Gas and Electric Company
Technical and Ecological Services

April 1996

Prepared by

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Project 0143-014.02

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1 INTRODUCTION

This report presents data collected during the first quarter 1996 monitoring period at the Pacific Gas and Electric Company (PG&E) Emeryville Maintenance facility at 4525 Hollis Street in Emeryville, California (see Figure 1).

2 GROUNDWATER GRADIENT AND DIRECTION

First quarter groundwater levels were measured at the PG&E Maintenance Facility in Emeryville, California, on March 15, 1996, using an electronic sounding device, and recorded on the historical monitoring well data form included in Appendix A. The groundwater elevations are summarized in Table 1. The March data were used in constructing a groundwater contour map (see Figure 2). March water levels ranged from a low of 11.87 feet above mean sea level (MSL) in well ESE-1 to a high of 20.02 feet above MSL in well MW-4. The groundwater gradient is 0.03 foot per foot (ft/ft) to the north between monitoring wells ESE-2 and MW-4 and 0.06 ft/ft to the south between monitoring wells ESE-4 and ESE-1.

3 SAMPLING, ANALYSIS, AND MONITORING PROGRAM RESULTS

Groundwater samples were collected from wells ESE-1 through ESE-4 on March 15, 1996, consistent with the protocol presented in Figure 3, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by U.S. Environmental Protection Agency (USEPA) Method 602/8020; polychlorinated biphenyls (PCBs) by USEPA Method 3510/608; and total extractable petroleum hydrocarbons (TEPH) as mineral oil, by USEPA Method 3510/8015M. Temperature, pH, and electrical conductivity were measured in the field and recorded on the water sample field data sheets (see Appendix A). Groundwater samples were not collected from well MW-4. Field readings from the first quarter 1996 monitoring event are summarized in Table 1.

The analytical results are discussed below. First quarter 1996 and historical analytical data are summarized in Table 2.

BTEX, MTBE, and PCBs were not detected at or above the method reporting limit (MRL) in any sample collected from ESE-1 through ESE-4.

Petroleum hydrocarbons were detected in the range in well ESE-1. Chromalab, Inc., compared the peak in the chromatogram from this event with the chromatogram for the mineral oil reference standard supplied by PG&E. The chromatogram peak in ESE-1 was similar to that of mineral oil, and the concentration was estimated to be 277 micrograms per liter ($\mu\text{g/L}$). TEPH was not detected at or above the MRL in samples collected from ESE-2, ESE-3, or ESE-4. Certified analytical reports and chain-of-custody records are included in Appendix B.

4 FIELD LABORATORY QUALITY CONTROL RESULTS

Analytical data were evaluated for accuracy and precision based on field and laboratory quality control (QC) sample performance. The field QC consisted of collecting one field blank (FB-1) and analyzing it for BTEX.

Field blanks are collected to assess the effect of field environments on the analytical results and to identify false positives. No parameters were detected above their respective MRLs in the field blank, indicating no adverse effects from sampling procedures.

The laboratory QC consisted of checking adherence to holding times and evaluating method blanks and matrix spike (MS) results.

Holding times are established by the USEPA and refer to the maximum time allowed to pass between sample collection and analysis by the laboratory. These limits assist in determining data validity. The method blank results are used to assess the effect of the laboratory environment on the analytical results. The MS recoveries are used to assess accuracy.

All analyses were done within the holding times specified by the USEPA. No compounds were detected in the daily method blanks. Recoveries of MS results, were within the laboratory acceptance limits.

The field and laboratory QC results indicate that the analytical data are of acceptable quality.

The material and data in this report were prepared under the supervision and direction of the undersigned.

EMCON



Harold R. Duke
Project Manager

EMCON

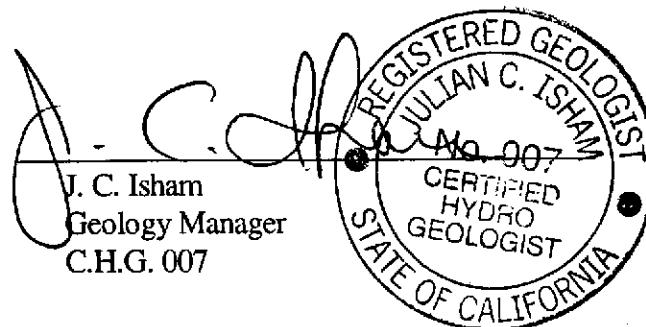


Table 1
Field Measurements
First Quarter 1996 and Historical Data
Pacific Gas and Electric Company
Emeryville, California

Sample Designation	Date	Top-of-Casing Elevation (ft/MSL) ¹	Depth to Water (feet)	Groundwater Elevation (ft/MSL)	Measured Well Depth (feet)	pH (units)	Temperature (°F)	Electrical Conductivity (umhos/cm)
ESE-1	03/28/94	23.66	10.06	13.60	20.8	8.48	73.1	600
ESE-1	04/07/94	23.66	10.22	13.44	NM ³	NS ⁴	NS	NS
ESE-1	12/12/94	23.66	9.18	14.48	30.6	7.26	63.4	588
ESE-1	03/13/95	23.66	8.20	15.46	30.6	7.33	63.3	548
ESE-1	06/15/95	23.66	9.50	14.16	30.6	6.90	64	505
ESE-1	09/15/95	23.66	10.13	13.53	30.6	6.80	65.1	505
ESE-1	12/15/95	23.66	10.55	13.11	33.8	7.04	65.1	511
ESE-1	03/15/96	23.66	11.79	11.87	33.6	6.94	64.9	540
ESE-2	03/28/94	27.80	10.13	17.67	34.2	7.67	67.5	580
ESE-2	04/07/94	27.80	14.37	13.43	NM	NS	NS	NS
ESE-2	12/12/94	27.80	13.05	14.75	34.3	7.05	64.6	610
ESE-2	03/13/95	27.80	12.48	15.32	34.3	7.19	62.5	596
ESE-2	06/15/95	27.80	13.85	13.95	34.3	7.02	65.1	601
ESE-2	09/15/95	27.80	14.22	13.58	34.3	6.91	65.6	627
ESE-2	12/15/95	27.80	11.65	16.15	34.1	7.12	64.7	591
ESE-2	03/15/96	27.80	12.87	14.93	34.1	7.01	65.8	669
ESE-3	03/28/94	23.91	11.23	12.68	30.9	7.47	68.7	610
ESE-3	04/07/94	23.91	11.29	12.62	NM	NS	NS	NS
ESE-3	12/12/94	23.91	10.62	13.29	31.0	7.19	63.9	600
ESE-3	03/13/95	23.91	9.45	14.46	31.0	6.99	62.5	600
ESE-3	06/15/95	23.91	10.27	13.64	31.0	7.10	64.9	556
ESE-3	09/15/95	23.91	10.87	13.04	31.0	6.96	65.5	559
ESE-3	12/19/95	23.91	9.40	14.51	31.0	7.28	64.2	556
ESE-3	03/15/96	23.91	10.02	13.89	30.9	7.01	65.0	583

Table 1
Field Measurements
First Quarter 1996 and Historical Data
Pacific Gas and Electric Company
Emeryville, California

Sample Designation	Date	Top-of-Casing Elevation (ft/MSL) ¹	Depth to Water (feet)	Groundwater Elevation (ft/MSL)	Measured Well Depth (feet)	pH (units)	Temperature (°F)	Electrical Conductivity (umhos/cm)
ESE-4	03/28/94	24.33	10.63	13.70	31.4	7.77	66.3	610
ESE-4	04/07/94	24.33	10.85	13.48	NM	NS	NS	NS
ESE-4	12/12/94	24.33	9.63	14.70	31.6	7.11	63.1	591
ESE-4	03/13/95	24.33	8.90	15.43	31.6	7.16	61.2	595
ESE-4	06/15/95	24.33	9.81	14.52	31.6	7.05	64.1	565
ESE-4	09/15/95	24.33	10.85	13.48	31.6	7.01	66.3	584
ESE-4	12/15/95	24.33	8.72	15.61	31.6	7.05	64.6	555
ESE-4	03/15/96	24.33	9.29	15.04	31.5	7.01	63.7	600
MW-4	03/13/95	28.14	9.84	18.30	14.7	NS	NS	NS
MW-4	06/15/95	28.14	10.74	17.40	14.7	NS	NS	NS
MW-4	09/15/95	28.14	10.90	17.24	14.7	NS	NS	NS
MW-4	12/15/95	28.14	6.53	21.61	14.7	NS	NS	NS
MW-4	03/15/96	28.14	8.12	20.02	14.7	NS	NS	NS

¹ ft/MSL = feet relative to mean sea level.

² umhos/cm = micromhos per centimeter at 77°F.

³ NM = not measured.

⁴ NS = not sampled.

Table 2
Analytical Data
First Quarter 1996 and Historical Data
Pacific Gas and Electric Company
Emeryville, California
(ug/l)¹

Sample Designation	Sampling Date	Polychlorinated Biphenols	TEPH ²	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl tert-butyl ether
ESE-1	03/28/94	<1	340	<0.3	<0.3	<0.3	<0.3	NA
ESE-1	12/12/94	<0.5	80	<0.5	<0.5	<0.5	<0.5	NA
ESE-1	03/13/95	1.3	500 ³	<0.5	<0.5	<0.5	<0.5	NA
ESE-1	06/15/95	<0.5	350 ³	<0.5	<0.5	<0.5	<0.5	NA
ESE-1	09/15/95	<0.5	470 ³	<0.5	<0.5	<0.5	<0.5	NA
ESE-1	12/15/95	<0.5	440 ³	<0.5	<0.5	<0.5	<0.5	NA
ESE-1	03/15/96	<0.5	277	<0.5	<0.5	<0.5	<0.5	<5
ESE-2	03/28/94	<1	250	0.8	1.5	<0.3	2.7	NA
ESE-2	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-2	03/13/95	<0.5	120 ⁴	<0.5	<0.5	<0.5	<0.5	NA
ESE-2	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-2	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-2	12/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-2	03/15/96	<0.5	<59	<0.5	<0.5	<0.5	<0.5	<5
ESE-3	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3	NA
ESE-3	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-3	03/13/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-3	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-3	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-3	12/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-3	03/15/96	<0.5	<59	<0.5	<0.5	<0.5	<0.5	<5

Table 2
Analytical Data
First Quarter 1996 and Historical Data
Pacific Gas and Electric Company
Emeryville, California
($\mu\text{g/l}$)¹

Sample Designation	Sampling Date	Polychlorinated Biphenols	TEPH ²	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl tert-butyl ether
ESE-4	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3	NA
ESE-4	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-4	03/13/95	<0.5	56 ⁴	<0.5	<0.5	<0.5	<0.5	NA
ESE-4	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-4	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5	NA
ESE-4	12/15/95	<0.5	57 ⁴	<0.5	<0.5	<0.5	<0.5	NA
ESE-4	03/15/96	<0.5	<59	<0.5	<0.5	<0.5	<0.5	<5
Trip Blank	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3	NA
Trip Blank	12/12/94	NA ⁵	NA	<0.5	<0.5	<0.5	<0.5	NA
Trip Blank	03/13/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Trip Blank	06/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Trip Blank	09/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Trip Blank	12/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	03/28/94	NA	NA	NA	NA	NA	NA	NA
Field Blank	12/12/94	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	03/13/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	06/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	09/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	12/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5	NA
Field Blank	03/15/96	NA	NA	<0.5	<0.5	<0.5	<0.5	<5

¹ $\mu\text{g/l}$ = micigrams per liter.

² TEPH = total extractable petroleum hydrocarbons..

³ Compounds similar to client-supplied transformer oil were found.

⁴ Compounds in diesel range not similar to laboratory standard for transformer oil.

⁵ NA = not analyzed.



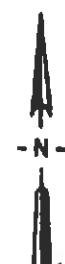
Base map from USGS 7.5' Quad. Map:
Oakland West, California. (Photorevised 1980).



Scale: 0

2000

4000 Feet

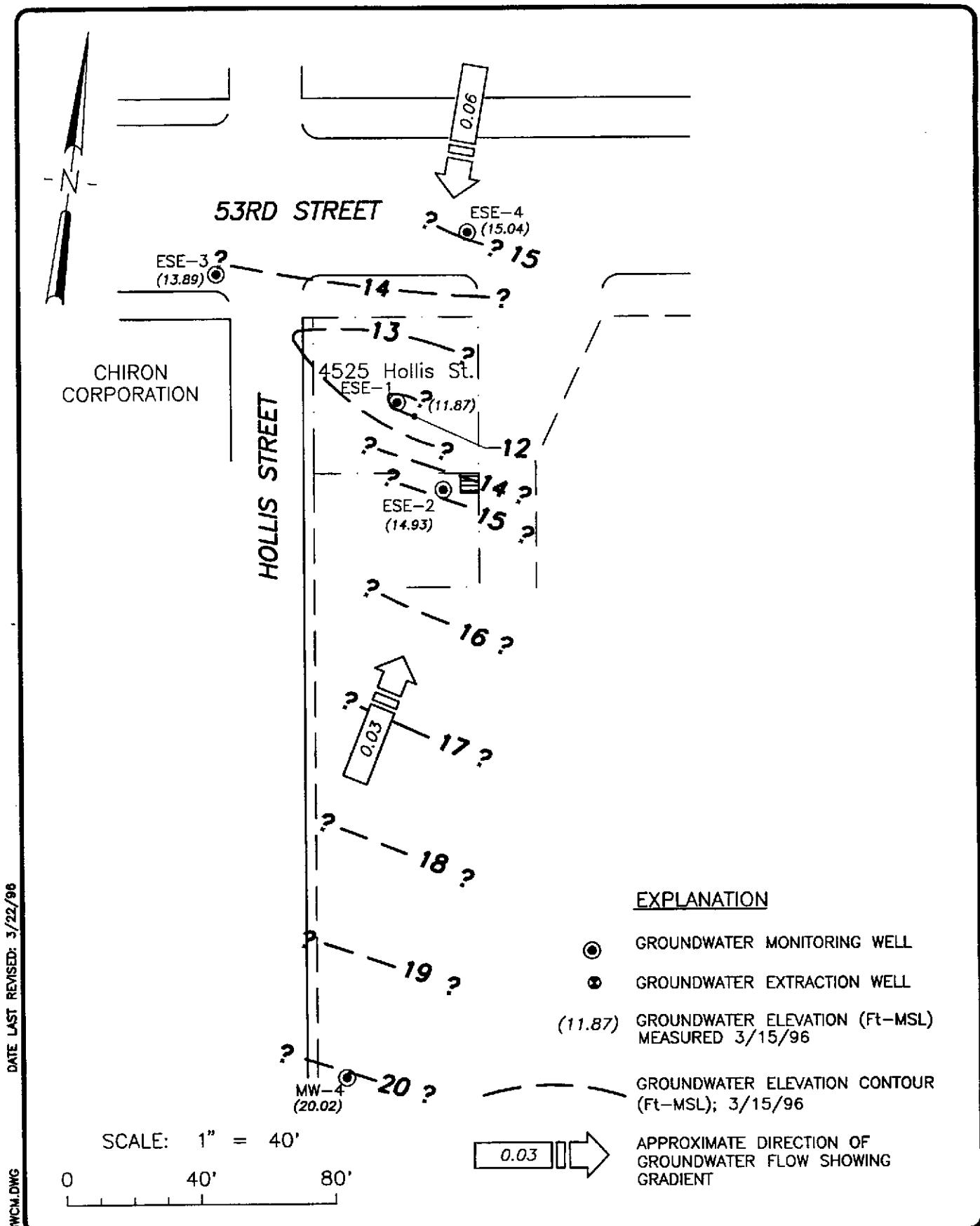


**EMCON
Associates**

PACIFIC GAS & ELECTRIC COMPANY
QUARTERLY MONITORING PROGRAM
EMERYVILLE, CALIFORNIA

SITE LOCATION

**FIGURE
1**
PROJECT NO.
143-014.02



emcon

PACIFIC GAS AND ELECTRIC
EMERYVILLE MAINTENANCE FACILITY
EMERYVILLE, CALIFORNIA
QUARTERLY MONITORING REPORT
GROUNDWATER CONTOUR MAP
FIRST QUARTER 1996

FIGURE
2
PROJECT NO.
20143-014.02



EMCON

MONITORING WELL PURGING PROTOCOL

MEASURE AND RECORD DEPTH TO WATER
AND WELL TOTAL DEPTH

CHECK FOR FLOATING PRODUCT

YES

MEASURE AND DOCUMENT
FLOATING PRODUCT THICKNESS.
DO NOT SAMPLE WELL FOR
DISSOLVED CONSTITUENTS.

NO

CALCULATE PURGE VOLUME BY
USING THE FOLLOWING EQUATION:

$$P = \pi r^2 h \times 7.48 \times 3$$

where:

- P = calculated purge volume (gallons)
- π = 3.14
- r = radius of well casing in feet
- h = height of water column in feet

WELL EVACUATED TO PRACTICAL LIMITS
OF DRYNESS BEFORE REMOVING
CALCULATED PURGE VOLUMEEVACUATE WATER FROM WELL EQUAL TO
THE CALCULATED PURGE VOLUME WHILE
MONITORING GROUND-WATER STABILIZATION
INDICATOR PARAMETERS (pH, CONDUCTIVITY,
TEMPERATURE) AND TURBIDITY AT INTERVALS
OF ONE CASING VOLUME.

NO

YES

FINAL TWO SETS OF GROUND-WATER
STABILIZATION INDICATOR PARAMETER
MEASUREMENTS MEET THE FOLLOWING
CRITERIA:

- pH = ± 0.05 pH units
- COND. = ± 3 %
- TEMP. = ± 1.0 °F
- TURBIDITY = ± <5 NTU

YES

NO

WELL PURGING
CRITERIA MET;
PROCEED TO
WELL SAMPLINGCONTINUE PURGING;
EVACUATE ADDITIONAL
CASING VOLUME OF
WATER, MONITORING
INDICATOR PARAMETERS
FOR STABILITY.FIELD TEST FIRST
RECHARGE WATER FOR
INDICATOR PARAMETERS
AND TURBIDITY, THEN
PROCEED TO WELL
SAMPLING.RECORD WELL AS DRY FOR
PURPOSES OF
SAMPLING.

EMCON

MONITORING WELL PURGING PROTOCOL

FIGURE

3

APPENDIX A

**HISTORICAL MONITORING WELL DATA FORM AND WATER SAMPLE
FIELD DATA SHEETS**

EMCON - Field Services
1921 Ringwood Avenue
San Jose, California

M. Chayfalla
Signature

Historical Monitoring Well Data
PG&E Emeryville
0143-014.002

Well ID	Date	Depth to	First	Second	Floating	Well	Comments
		Floating Product (feet)	Depth to Water (feet)	Depth to Water (feet)	Product Thickness (feet)	Total Depth (feet)	
Depth to liquid : 0.01 foot							
ESE-1	06/15/95		9.50	9.50	ND	30.6	
	09/15/95		10.13	10.13	ND	30.6	
	12/15/95		10.55	10.55	ND	33.8	
ESE-1	3/15/96	ND	11.79	11.79	ND	33.6	Time: 1017 Lock: None water in box.
ESE-2	06/15/95		13.85	13.85	ND	34.3	
	09/15/95		14.22	14.22	ND	34.3	
	12/15/95		11.65	11.65	ND	34.1	
ESE-2			12.87	12.87		34.1	Time: 1021 Lock: Dolphin
ESE-3	06/15/95		10.27	10.27	ND	31.0	
	09/15/95		10.87	10.87	ND	31.0	
	12/15/95		9.40	9.40	ND	31.0	
ESE-3			10.02	10.02		30.9	Time: 1025 Lock: 3210
ESE-4	06/15/95		9.81	9.81	ND	31.6	
	09/15/95		10.85	10.85	ND	31.6	
	12/15/95		8.72	8.72	ND	31.6	
ESE-4			9.29	9.29		31.5	Time: 1030 Lock: 3210
MW-4	06/15/95		10.74	10.74	ND	14.7	
	09/15/95		10.90	10.90	ND	14.7	
	12/15/95		6.53	6.53	ND	14.7	
MW-4	✓	✓	8.12	8.12	✓	14.7	water in box Time: 1007 Lock: None



WATER SAMPLE FIELD DATA SHEET

**EMCON
ASSOCIATES**

PROJECT NO: 20143-014-002

SAMPLE ID: ESE-1

PURGED BY: M. Galleas

CLIENT NAME: PROE

SAMPLED BY: ✓

LOCATION: Emeryu, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3.56

DEPTH TO WATER (feet): 11.79 CALCULATED PURGE (gal.): 14.24

DEPTH OF WELL (feet): 33.6 ACTUAL PURGE VOL. (gal.): 14.5

DATE PURGED:	<u>3-15-96</u>	Start (2400 Hr)	<u>1058</u>	End (2400 Hr)	<u>1113</u>
DATE SAMPLED:	<u>✓</u>	Start (2400 Hr)	<u>1123</u>	End (2400 Hr)	<u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1102</u>	<u>3.5</u>	<u>6.85</u>	<u>533</u>	<u>64.7</u>	<u>BRW</u>	<u>Heavy</u>
<u>1104</u>	<u>7.0</u>	<u>6.96</u>	<u>543</u>	<u>64.9</u>	<u> </u>	<u> </u>
<u>1109</u>	<u>10.5</u>	<u>6.92</u>	<u>540</u>	<u>65.0</u>	<u> </u>	<u> </u>
<u>1113</u>	<u>14.5</u>	<u>6.94</u>	<u>540</u>	<u>64.9</u>	<u>✓</u>	<u>✓</u>

D. O. (ppm): <u>NR</u>	ODOR: <u>None</u>	<u>NR</u>	<u>NR</u>
Field QC samples collected at this well:		(COBALT 0 - 500 NTU 0 - 200 or 0 - 1000)	
<u>NR</u>		<u>NR</u>	

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
<input type="checkbox"/>	2" Bladder Pump	<input checked="" type="checkbox"/>	Bailer (Teflon®)	<input type="checkbox"/>	2" Bladder Pump <input checked="" type="checkbox"/>
<input type="checkbox"/>	Centrifugal Pump	<input checked="" type="checkbox"/>	Bailer (PVC)	<input type="checkbox"/>	Bailer (Stainless Steel)
<input type="checkbox"/>	Submersible Pump	<input type="checkbox"/>	Bailer (Stainless Steel)	<input type="checkbox"/>	Dipper
<input type="checkbox"/>	Well Wizard™	<input type="checkbox"/>	Dedicated	<input type="checkbox"/>	Well Wizard™
Other: _____			Other: _____		

WELL INTEGRITY: Good LOCK #: PROE-Key

REMARKS: All Sampler tc.kor

Meter Calibration: Date: 3-15-96 Time: 1054 Meter Serial #: 9204 Temperature °F: 68.0
 (EC 1000 1007, DI 1000) (pH 7 6.98, Z 200) (pH 10 9.98, Z 200) (pH 4 4.00, Z 100)

Location of previous calibration: _____

Signature: J. M. Galleas Reviewed By: KR Page 1 of 4

EMCON
ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 20143-014-002

SAMPLE ID: ESE-2

PURGED BY: M. Gallegos

CLIENT NAME: PG&E

SAMPLED BY: ✓

LOCATION: Emeryville, CA

TYPE: Ground Water Surface Water Treatment Effluent Other CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3,460

DEPTH TO WATER (feet): 17.87 CALCULATED PURGE (gal.): 13,84

DEPTH OF WELL (feet): 34.1 ACTUAL PURGE VOL. (gal.): 14.0

DATE PURGED: 3-15-94 Start (2400 Hr) 1139 End (2400 Hr) 1152

DATE SAMPLED: ✓ Start (2400 Hr) 1201 End (2400 Hr) —

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (μ hos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1143	3.5	7.02	680	65.4	DRN	NH4+
1146	7.0	7.03	678	66.0	—	—
1149	10.5	7.04	672	65.7	—	—
1152	14.0	7.01	669	65.8	✓	✓

D. O. (ppm): NR ODOR: None NR NR

Field QC samples collected at this well: Parameters field filtered at this well: (COBALT 0 - 500 or NTU 0 - 200 or 0 - 1000) NR NR

PURGING EQUIPMENT

- 2" Bladder Pump
— Centrifugal Pump
— Submersible Pump
— Well Wizard™
Other:

SAMPLING EQUIPMENT

- ✓ Bailer (Teflon®)
X Bailer (PVC)
— Bailer (Stainless Steel)
— Dedicated
Other:
- 2" Bladder Pump
— DDL Sampler
— Dipper
— Well Wizard™
— Submersible Pump
— Dedicated

WELL INTEGRITY: Good LOCK #: Pk-Kev

REMARKS: All samples taken

Meter Calibration: Date: 5-15-94 Time: Meter Serial #: 9204 Temperature °F: _____
(EC 1000 /) (DI /) (pH 7 /) (pH 10 /) (pH 4 /)

Location of previous calibration: ESE-1

Signature: M. Gallegos Reviewed By: KF Page 2 of 4



WATER SAMPLE FIELD DATA SHEET

**EMCON
ASSOCIATES**

PROJECT NO: 20143-014-002

SAMPLE ID: ESE-3

PURGED BY: M. GALLEGO

CLIENT NAME: PG&E

SAMPLED BY: ✓

LOCATION: Emeryville, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3,40

DEPTH TO WATER (feet): 10.02 CALCULATED PURGE (gal.): 13.63

DEPTH OF WELL (feet): 30.9 ACTUAL PURGE VOL. (gal.): 14.0

DATE PURGED: 3-15-96 Start (2400 Hr) 1217 End (2400 Hr) 1229

DATE SAMPLED: ✓ Start (2400 Hr) 1235 End (2400 Hr) —

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (μ mhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1220</u>	<u>3.5</u>	<u>7.07</u>	<u>580</u>	<u>65.5</u>	<u>TSR4</u>	<u>slurry</u>
<u>1223</u>	<u>7.0</u>	<u>7.05</u>	<u>580</u>	<u>65.3</u>	<u>—</u>	<u>—</u>
<u>1226</u>	<u>10.5</u>	<u>7.09</u>	<u>581</u>	<u>65.1</u>	<u>—</u>	<u>—</u>
<u>1229</u>	<u>14.0</u>	<u>7.01</u>	<u>583</u>	<u>65.0</u>	<u>✓</u>	<u>✓</u>

D. O. (ppm): NR ODOR: None NR NR (COBALT 0 - 500) (NTU 0 - 200 or 0 - 1000)

Field QC samples collected at this well: NR Parameters field filtered at this well: NR

PURGING EQUIPMENT

- 2" Bladder Pump
- Bailer (Teflon®)
- Centrifugal Pump
- Bailer (PVC)
- Submersible Pump
- Bailer (Stainless Steel)
- Well Wizard™
- Dedicated

Other: _____

SAMPLING EQUIPMENT

- 2" Bladder Pump
- Bailer (Teflon®)
- DDL Sampler
- Dipper
- Well Wizard™
- Submersible Pump
- Dedicated

Other: _____

WELL INTEGRITY: Good LOCK #: PG&E

REMARKS: All samples taken

Meter Calibration: Date: 3-15-96 Time: _____ Meter Serial #: 9204 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: ESE-1

Signature: M. Gallego Reviewed By: KF Page 3 of 4



WATER SAMPLE FIELD DATA SHEET

EMCON
ASSOCIATESPROJECT NO: 20143-014-002SAMPLE ID: ESE-4PURGED BY: M. GALLEGOCLIENT NAME: PG&ESAMPLED BY: ✓LOCATION: Emeryville, CATYPE: Ground Water Surface Water Treatment Effluent Other CASING DIAMETER (inches): 2 3 4 4.5 6 Other CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 3.62DEPTH TO WATER (feet): 9.29 CALCULATED PURGE (gal.): 14.50DEPTH OF WELL (feet): 31.5 ACTUAL PURGE VOL. (gal.): 15.0

DATE PURGED:	<u>3-15-94</u>	Start (2400 Hr)	<u>1259</u>	End (2400 Hr)	<u>1312</u>
DATE SAMPLED:	<u>✓</u>	Start (2400 Hr)	<u>1320</u>	End (2400 Hr)	<u> </u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (μ mhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1302</u>	<u>3.5</u>	<u>6.99</u>	<u>611</u>	<u>64.3</u>	<u>Brown</u>	<u>Heavy</u>
<u>1305</u>	<u>7.0</u>	<u>7.03</u>	<u>606</u>	<u>64.0</u>	<u> </u>	<u> </u>
<u>1308</u>	<u>11.0</u>	<u>7.02</u>	<u>599</u>	<u>63.8</u>	<u> </u>	<u> </u>
<u>1312</u>	<u>15.0</u>	<u>7.01</u>	<u>600</u>	<u>63.7</u>	<u>✓</u>	<u>✓</u>

D. O. (ppm):	<u>NR</u>	ODOR:	<u>None</u>	<u>NR</u>	<u>NR</u>
--------------	-----------	-------	-------------	-----------	-----------

Field QC samples collected at this well:	<u>FB-1(1320)</u>	Parameters field filtered at this well:	<u>NR</u>	(COBALT 0 - 500)	(NTU 0 - 200 or 0 - 1000)
--	-------------------	---	-----------	------------------	---------------------------

PURGING EQUIPMENT			SAMPLING EQUIPMENT		
—	2" Bladder Pump	—	Bailer (Teflon®)	—	2" Bladder Pump
—	Centrifugal Pump	✗	Bailer (PVC)	—	Bailer (Stainless Steel)
—	Submersible Pump	—	Bailer (Stainless Steel)	—	Dipper
—	Well Wizard™	—	Dedicated	—	Submersible Pump
Other:				Other:	Dedicated

WELL INTEGRITY: Good LOCK #: PG&E-KryREMARKS: All samples takenMeter Calibration: Date: 3/15/96 Time: _____ Meter Serial #: 9204 Temperature °F: _____
(EC 1000 ____ / ____) (DI ____) (pH 7 ____ / ____) (pH 10 ____ / ____) (pH 4 ____ / ____)Location of previous calibration: ESE-1Signature: M. G. Gallego Reviewed By: KR Page 4 of 4

EMCON - Drum Inventory Record

20143-014.002

Project No

Emeryville, CA

3-15-86

Location

Date

PG&E

Client

M. Gallegos

Sampler

Friday

Day of Week

DRUM NUMBER OR ID	WELL OR SOURCE ID(s)	TYPE OF MATERIAL	AMOUNT OF MATERIAL IN DRUM	DATE ACCUMULATED OR GENERATED
A	All wells	Groundwater	55.0 gal	3-15-86

Sketch locations of drums, include drum ID's

COMMENTS: _____

Number of Drums From This Event

1

Total Number of Drums At Site

2

EMCON
GROUNDWATER SAMPLING AND ANALYSIS REQUEST FORM

PROJECT NAME: PG&E-Emeryville
4525 Hollis Street, Emeryville, CA

DATE SUBMITTED: **15-Mar-96**

SPECIAL INSTRUCTIONS / CONSIDERATIONS :
Quarterly Water Quality Monitoring - Third Month of the Quarter

Survey water levels prior to well purging and sampling.
Purge four casing volumes prior to sample collection
Purge and sample using bailers.
Drum purge water; use the drums supplied by PG&E
Chromalab will pick up the samples on Monday, March 18th; bring the samples back to the office.

Authorization: _____

Project No. : **20143-014.002**

Send Results To: **J. C. Isham**

Coordinator: **K Reichelderfer**

Well Locks:
PG&E

PG&E Project

Coordinator: Mr. Fred Flint _____ Phone No.: (510) 866-5808
Site Contact: Mr. Mel Byrd _____ Phone No.: (510) 450-5740

Well ID or Source	Casing Diameter (inches)	Casing Length (feet)	ANALYSES REQUESTED
ESE-1	2.0	30.6	PCBs by EPA 8080
ESE-2	2.0	34.3	BTEX by EPA 602
ESE-3	2.0	31.0	TEPH as mineral oil by EPA 3510/8015
ESE-4	2.0	31.6	
FB-1	NA	NA	BTEX by EPA 602
MW-4	2.0	14.7	Water Level & Total Depth Only

Laboratory and Lab QC Instructions:

Tier I QC; all samples are to be analyzed by Chromalab

APPENDIX B

**CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY
DOCUMENTATION**

CHROMALAB, INC.

Environmental Services (SDB)

March 25, 1996

APR 01 1996

EMCON/SACRAMENTO

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

Project #: 20143-014.002

re: One sample for 8080 MOD PCBs - WATER analysis.
Method: MOD. EPA 3510/8080

SampleID: ESE-1
Sample #: 120475
Sampled: March 15, 1996

Matrix: WATER
Run: 10797-D

Extracted: March 21, 1996
Analyzed: March 24, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK	BLANK	SPIKE
			RESULT (ug/L)	RESULT (%)	RESULT
AROCLOL 1016	N.D.	0.5	N.D.		102
AROCLOL 1221	N.D.	0.5	N.D.		--
AROCLOL 1232	N.D.	0.5	N.D.		--
AROCLOL 1242	N.D.	0.5	N.D.		--
AROCLOL 1248	N.D.	0.5	N.D.		--
AROCLOL 1254	N.D.	0.5	N.D.		--
AROCLOL 1260	N.D.	0.5	N.D.		81

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

March 25, 1996

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

RECEIVED
APR 01 1996
EMCON/SACRAMENTO
Submission #: 9603137

Project#: 20143-014.002

re: One sample for 8080 MOD PCBs - WATER analysis.
Method: MOD. EPA 3510/8080

SampleID: ESE-2

Sample #: 120476

Matrix: WATER

Extracted: March 21, 1996

Sampled: March 15, 1996

Run: 10797-D

Analyzed: March 24, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK	BLANK	SPIKE
			RESULT (ug/L)	RESULT (%)	
AROCLOL 1016	N.D.	0.5	N.D.		102
AROCLOL 1221	N.D.	0.5	N.D.		--
AROCLOL 1232	N.D.	0.5	N.D.		--
AROCLOL 1242	N.D.	0.5	N.D.		--
AROCLOL 1248	N.D.	0.5	N.D.		--
AROCLOL 1254	N.D.	0.5	N.D.		--
AROCLOL 1260	N.D.	0.5	N.D.		81

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

March 25, 1996

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

RECEIVED
APR 01 1996
EMCON/SACRAMENTO

Submission #: 9603137

re: One sample for 8080 MOD PCBs - WATER analysis.

Method: MOD. EPA 3510/8080

SampleID: ESE-3

Sample #: 120477

Sampled: March 15, 1996

Matrix: WATER

Run: 10797-D

Extracted: March 21, 1996

Analyzed: March 24, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK	BLANK	SPIKE
			RESULT (ug/L)	RESULT (%)	RESULT
AROCLOL 1016	N.D.	0.5	N.D.		102
AROCLOL 1221	N.D.	0.5	N.D.		--
AROCLOL 1232	N.D.	0.5	N.D.		--
AROCLOL 1242	N.D.	0.5	N.D.		--
AROCLOL 1248	N.D.	0.5	N.D.		--
AROCLOL 1254	N.D.	0.5	N.D.		--
AROCLOL 1260	N.D.	0.5	N.D.		81

Dennis Mayugba
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

March 25, 1996

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E - EMERYVILLE

Received: March 18, 1996

RECORDED

APR 01 1996

EMCON/SACRAMENTO

Submission #: 9603137

re: One sample for 8080 MOD PCBs - WATER analysis.

Method: MOD. EPA 3510/8080

SampleID: ESE-4

Sample #: 120478

Sampled: March 15, 1996

Matrix: WATER

Run: 10797-D

Extracted: March 21, 1996

Analyzed: March 24, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK	BLANK	SPIKE
			RESULT (ug/L)	RESULT (%)	RESULT
AROCLOL 1016	N.D.	0.5	N.D.		102
AROCLOL 1221	N.D.	0.5	N.D.		--
AROCLOL 1232	N.D.	0.5	N.D.		--
AROCLOL 1242	N.D.	0.5	N.D.		--
AROCLOL 1248	N.D.	0.5	N.D.		--
AROCLOL 1254	N.D.	0.5	N.D.		--
AROCLOL 1260	N.D.	0.5	N.D.		81

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SOS)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report sent previously.

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

Project#: 20143-014.002

re: One sample for BTEX with Methyl Tert-Bucyl Ether analysis.
Method: EPA 5030/602/8020

Sample ID: ESE-1

Sample #: 120475

Sampled: March 15, 1996

Matrix: WATER

Run: 10807-5

Analyzed: March 20, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK RESULT (ug/L)	SPIKE RESULT (%)
BENZENE	N.D.	0.5	N.D.		106
TOLUENE	N.D.	0.5	N.D.		95
ETHYL BENZENE	N.D.	0.5	N.D.		101
XYLENES	N.D.	0.5	N.D.		102
MTBE	N.D.	5	N.D.		74

June Zhao

Chemist

Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDS)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report sent previously.

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

Project #: 20143-014.002

re: One sample for BTEX with Methyl Tert-Butyl Ether analysis.
Method: EPA 5030/602/8020

Sample ID: ESE-2

Sample #: 120476

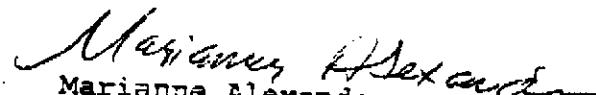
Sampled: March 15, 1996

Matrix: WATER

Run: 10807-5

Analyzed: March 20, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK		BLANK SPIKE RESULT (%)
			RESULT (ug/L)	RESULT (ug/L)	
BENZENE	N.D.	0.5	N.D.	N.D.	106
TOLUENE	N.D.	0.5	N.D.	N.D.	95
ETHYL BENZENE	N.D.	0.5	N.D.	N.D.	101
XYLENES	N.D.	0.5	N.D.	N.D.	102
MTBE	N.D.	5	N.D.	N.D.	74

June Zhao
Chemist
Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SOS)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report sent previously.

Atten: J.C. Isham

Project: PG&E - EMERYVILLE

Project #: 20143-014.002

Received: March 18, 1996

re: One sample for BTEX with Methyl Tert-Butyl Ether analysis.
Method: EPA 5030/602/8020

Sample ID: ESE-3

Sample #: 120477

Sampled: March 15, 1996

Matrix: WATER

Run: 10807-5

Analyzed: March 20, 1996

zz

Analyte	RESULT ($\mu\text{g}/\text{L}$)	REPORTING LIMIT ($\mu\text{g}/\text{L}$)	BLANK RESULT ($\mu\text{g}/\text{L}$)	BLANK SPIKE RESULT (%)
BENZENE	N.D.	0.5	N.D.	106
TOLUENE	N.D.	0.5	N.D.	95
ETHYL BENZENE	N.D.	0.5	N.D.	101
XYLEMES	N.D.	0.5	N.D.	102
MTBE	N.D.	5	N.D.	74

June Zhao
Chemist

Marianne Alexander
Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDE)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report sent previously.

Atten: J.C. Isham

Project: PG&E ~ EMERYVILLE
Received: March 18, 1996

Project#: 20143-014.002

Re: One sample for BTEX with Methyl Tert-Butyl Ether analysis.
Method: EPA 5030/602/8020

Sample ID: ESE-4

Sample #: 120478

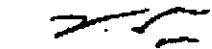
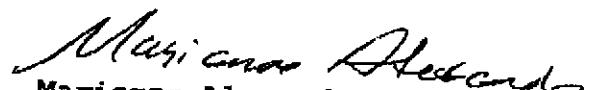
Sampled: March 15, 1996

Matrix: WATER

Run: 10807-5

Analyzed: March 20, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK RESULT (%)	SPIKE RESULT
BENZENE	N.D.	0.5	N.D.	106	
TOLUENE	N.D.	0.5	N.D.	95	
ETHYL BENZENE	N.D.	0.5	N.D.	101	
XYLENES	N.D.	0.5	N.D.	102	
MTBE	N.D.	5	N.D.	74	


June Zhao
Chemist
Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDS)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report sent previously.

Atten: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

Project#: 20143-014.002

re: One sample for BTEX with Methyl Tert-Butyl Ether analysis.
Method: EPA 5030/602/8020

SampleID: FB-1

Sample #: 120479

Sampled: March 15, 1996

Matrix: WATER

Run: 10807-5

Analyzed: March 20, 1996

Analyte	RESULT ($\mu\text{g}/\text{L}$)	REPORTING LIMIT ($\mu\text{g}/\text{L}$)	BLANK RESULT ($\mu\text{g}/\text{L}$)	BLANK SPIKE RESULT (%)
BENZENE	N.D.	0.5	N.D.	106
TOLUENE	N.D.	0.5	N.D.	95
ETHYL BENZENE	N.D.	0.5	N.D.	101
XYLEMES	N.D.	0.5	N.D.	102
MTBE	N.D.	5	N.D.	74

June Zhao
Chemist
Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

April 9, 1996

Submission #: 9603137

EMCON ASSOCIATES, SACRAMENTO

Revised from report
previously sent
March 25, 1996

Attn: J.C. Isham

Project: PG&E - EMERYVILLE
Received: March 18, 1996

Project#: 20143-014.002

re: Four samples for Mineral Oil Analysis

Method: EPA 3510 / 8015M

Sampled: March 15, 1996 Matrix: WATER Extracted: March 19, 1996
Run: 10759-D Analysis: March 21, 1996

Spl #	Sample ID	MINERAL OIL		REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
		RESULT (ug/L)	BLANK RESULT (ug/L)			
120475	ESE-1	277	56	N.D.		72
120477	ESE-3	N.D.	53	N.D.		72
120478	ESE-4	N.D.	54	N.D.		72

Sampled: March 15, 1996 Matrix: WATER Extracted: March 19, 1996
Run: 10759-D Analysis: March 22, 1996

Spl #	Sample ID	MINERAL OIL		REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
		RESULT (ug/L)	BLANK RESULT (ug/L)			
120476	ESE-2	N.D.	59		N.D.	72


Dennis Mayugba
Chemist
Alex Tam
Semivolatiles SupervisorDiesel was used for spiking solution and to quantitate for Mineral Oil.
Chromatographic profiles are similiar to laboratory's mineral standard.

CHROMALAB, INC.
SAMPLE RECEIPT CHECKLIST

Client Name EMCOR

Date/Time Received 3/18/96 / 1043

Project _____

Received by B Moron Date / Time

Reference/Subm # 26958/960 3137

Carrier name _____

Checklist completed by: Rowley, 3/19/96

Logged in by MP Initials / Date

Signature _____ Date _____

Matrix H₂O Initials / Date _____

Shipping container in good condition? NA Yes No

Custody seals present on shipping container? Intact Broken Yes No

Custody seals on sample bottles? Intact Broken Yes No

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Samples intact? Yes No

Sufficient sample volume for indicated test? Yes No

VOA vials have zero headspace? NA Yes No

Trip Blank received? NA Yes No

All samples received within holding time? Yes No

Container temperature? 7.6 °C

pH upon receipt 6 pH adjusted <2 Check performed by: CR NA

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? _____ Date contacted? _____

Person contacted? _____ Contacted by? _____

Regarding? _____

Comments: pH adjusted for TEPH analysis

Corrective Action: _____



137/120475-120479

EMCON - San Jose

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

1921 Ringwood Avenue, San Jose, CA 95131 (408) 453-7300 FAX (408) 437-9526

Date 3-18-96

Page ____ of ____

26958

Project Name: Pacific Gas & Electric - Emeryville Project Number: 20143-014.002 Project Manager: J.C. Isham Company/Address: EMCON 1433 North Market Boulevard Sacramento, CA 95834-1943 Phone: (916) 928-3300 (916) 928-3341 (fax)					Analysis Requested							
					SUBM #: 9603137 REP: GC CLIENT: EMCON DUE: 03/25/96 REF #: 26956							
Sampler's Signature: <i>J.C. Isham</i>												
Sample I.D.	Date	Time	LAB I.D.	Sample Matrix	Number of Containers	BTEXE (Incl MTBE) by EPA 602	PCBs by EPA 8080	TEPH as mineral oil by EPA 3510/8015	REMARKS			
ESE-1	3/15/96	1123		H ₂ O	6	X	X	X	Preservations			
ESE-2		1201			6							
ESE-3		1235			6							
ESE-4		1320			6							
FB-1	✓	1326	✓		2							
Relinquished By <i>J.C. Isham</i> Signature <i>Emcon Colleges</i> Printed Name <i>EMCON</i> Firm <i>3/18/96 1043</i> Date/Time		Received By <i>M. Pak</i> Signature <i>M. Pak</i> Printed Name <i>Chromalab</i> Firm <i>3/18/96 1725</i> Date/Time		TURNAROUND REQUIREMENTS 24 hr 48 hr <input checked="" type="checkbox"/> Standard Provide Verbal Preliminary Results <input checked="" type="checkbox"/> Provide FAX Preliminary Results Requested Report Date _____			REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Routine Report <input checked="" type="checkbox"/> II. Report (includes DUP, MS MSD, as required, may be charged as samples) <input checked="" type="checkbox"/> III. Data Validation Report (includes All Raw Data) RWQCB (MDLs/PQLs/TRACE#)		INVOICE INFORMATION P.O. # _____ Bill to: _____ _____ _____		SAMPLE RECEIPT Shipping VIA: _____ Shipping #: _____ Condition: _____ Lab No: _____	
					Special Instructions/Comments: Please fax <u>chain-of-custody</u> to Fred Flint <u>prior</u> to conducting analysis; please fax <u>analytical results</u> to Fred Flint <u>after</u> conducting analysis (fax # 510-866-5681) Please analyze for MTBE in the BTEX analysis Send results to J.C. Isham at Emcon-Sacramento (please FAX preliminary results) Use Dielectric standard previously supplied to Chromalab for TEPH Analysis							