Pacific Gas and Electric Company

Environmental Compliance Unit
4525 Hollis Street
Emeryville, CA 94608-2999
510/450-5710

Michelle Boscoe
Senior Environmental Coordinator

March 8, 1996

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Environmental Health Dept.
1131 Harbor Bay Parkway #250
Alameda, CA 94502-6577

Dear Ms. Hugo:

Re: PG&E's Groundwater Monitoring and Sampling Report, Pacific Gas & Electric's Emeryville Materials Facility, Emeryville, California

Enclosed are two copies of the above-referenced report, performed for the fourth quarter of 1995 ending in December. The report was prepared by EMCON, and summarizes groundwater flow direction, hydraulic gradient, and the results of laboratory chemical analyses of groundwater samples collected in December of 1995.

Findings of the report include:

- The depth to ground water ranges from 10.13 to 14.22 feet below the surface. Ground water flow was to the north with a gradient magnitude of 0.03 ft/ft between wells ESE-2 and MW-4 and toward the south with a gradient magnitude of to 0.05 ft/ft between wells ESE-1 and ESE-4.

- TEPH which matches a transformer oil standard is present in well ESE-1 (440 ug/l). Unknown hydrocarbons in the diesel range were present in well ESE-4 at a concentration of 57 ug/l. All other compounds were below the method detection limit.

If you have any questions about this report, or the workplan on the same site submitted previously, please call me at (510) 450-5710.

Sincerely,

Michelle E. Boscoe
Senior Environmental Coordinator

Enclosures

cc: Rafat A. Shahid, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Gordon Coleman, Acting Chief, Environmental Protection Division
Kevin Graves, San Francisco Bay RWQCB
Sum Arigala, San Francisco Bay RWQCB

GROUNDWATER MONITORING AND SAMPLING REPORT

EMERYVILLE MAINTENANCE FACILITY
4525 HOLLIS STREET
EMERYVILLE, CALIFORNIA
FOURTH QUARTER 1995

Prepared for

Pacific Gas and Electric Company
Technical and Ecological Services

January 1996

Prepared by

EMCON
1433 North Market Boulevard
Sacramento, California 95834

Project 0143-014.02

CONTENTS

TABLES

FIGURES

1 INTRODUCTION

This report presents data collected during the fourth quarter 1995 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

Fourth quarter groundwater levels were measured at the PG&E Maintenance Facility in Emeryville, California, on December 15, 1995, 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 December data were used in constructing a groundwater contour map (see Figure 2). December water levels ranged from a low of 13.11 feet above mean sea level (MSL) in well ESE-1 to a high of 21.61 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 0.05 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 December 15, 1995, consistent with the protocol presented in Figure 3, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) 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 diesel, and dielectric/transformer 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 fourth quarter 1995 monitoring event are summarized in Table 1.

The analytical results are discussed below. Fourth quarter 1995 and historical analytical data are summarized in Table 2.

BTEX 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 diesel range in well ESE-1 and ESE-4. Chromalab, Inc., compared the peak in the chromatogram from this event with the chromatogram for the reference standard supplied by PG&E. The chromatogram peak in ESE-1 was similar to that of transformer oil, and the concentration was estimated to be 440 micrograms per liter (µg/L). The chromatogram peak in ESE-4 was not similar to that of transformer oil; the concentration was estimated to be 57 µg/L. Transformer oil was not detected at or above the MRL in samples collected from ESE-2 or ESE-3. TEPH as diesel was not detected in the samples collected from

wells ESE-1 through 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 trip blank (TB-1) and one field blank (FB-1) and analyzing them for BTEX.

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

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

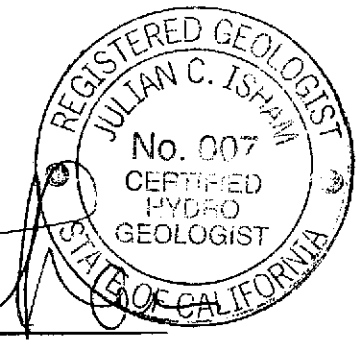
Holding times are established by the USEPA and refer to the maximum time allowed to pass between sample collection and analysis by the laboratory. These limits assist in determining data validity. The method blank results are used to assess the effect of the laboratory environment on the analytical results.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

All analyses were done within the holding times specified by the USEPA. No compounds were detected in the daily method blanks. Recoveries of MS and MSD, and the RPDs between the duplicate 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



J. C. Isham
Geology manager
C.H.G. 007

Table 1
Field Measurements
Fourth Quarter 1995 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-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-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

Table 1
Field Measurements
Fourth Quarter 1995 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
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

[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
Fourth Quarter 1995 and Historical Data
Pacific Gas and Electric Company
Emeryville, California
(ug/l)[1]

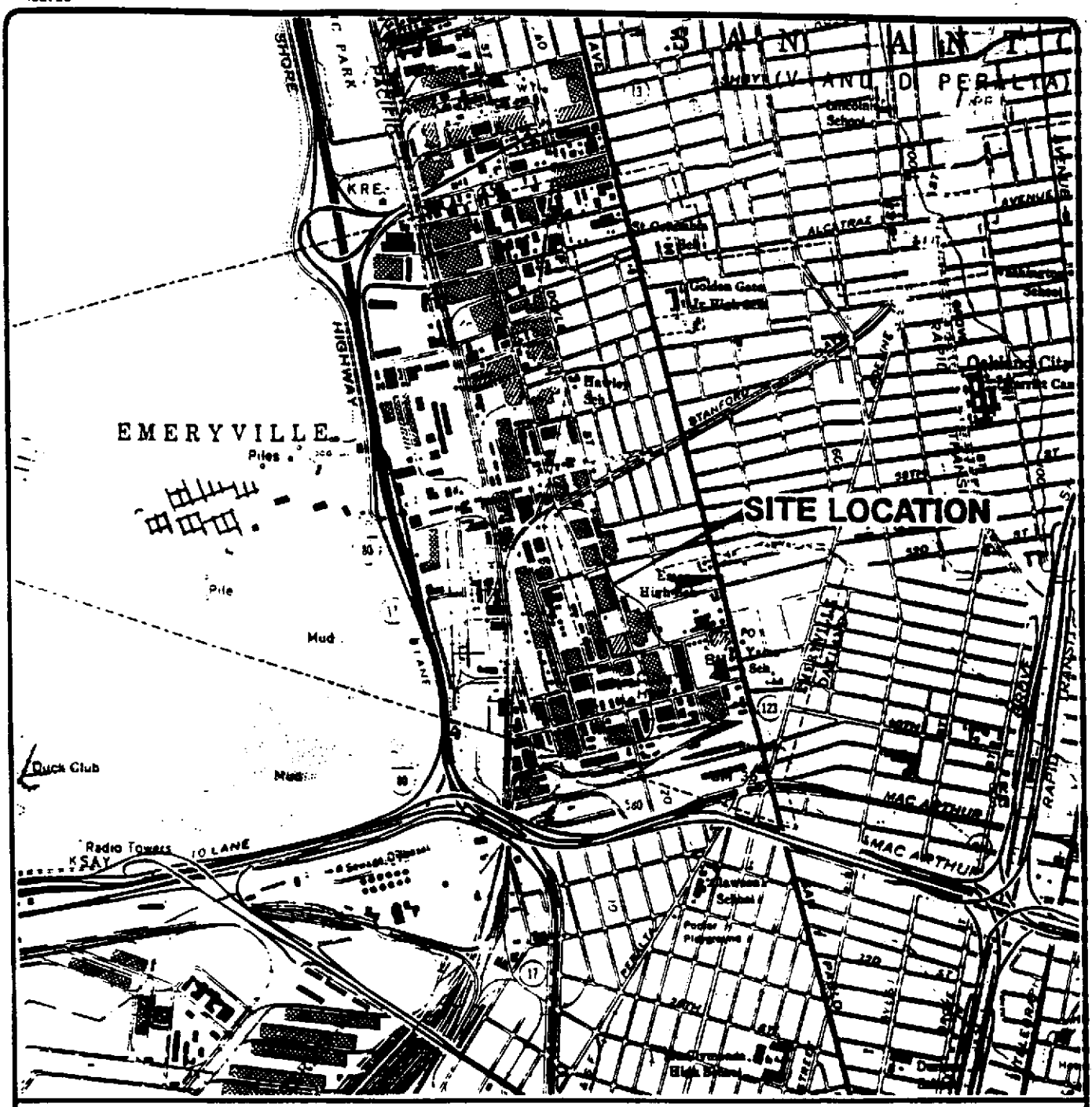
Sample Designation	Sampling Date	Polychlorinated Biphenols	TEPH[2]	Benzene	Toluene	Ethylbenzene	Xylenes
ESE-1	03/28/94	<1	340	<0.3	<0.3	<0.3	<0.3
ESE-1	12/12/94	<0.5	80	<0.5	<0.5	<0.5	<0.5
ESE-1	03/13/95	1.3	500 [3]	<0.5	<0.5	<0.5	<0.5
ESE-1	06/15/95	<0.5	350 [3]	<0.5	<0.5	<0.5	<0.5
ESE-1	09/15/95	<0.5	470 [3]	<0.5	<0.5	<0.5	<0.5
ESE-1	12/15/95	<0.5	440 [3]	<0.5	<0.5	<0.5	<0.5
ESE-2	03/28/94	<1	250	0.8	1.5	<0.3	2.7
ESE-2	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-2	03/13/95	<0.5	120 [4]	<0.5	<0.5	<0.5	<0.5
ESE-2	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-2	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-2	12/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-3	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3
ESE-3	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-3	03/13/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-3	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-3	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-3	12/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-4	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3
ESE-4	12/12/94	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-4	03/13/95	<0.5	56 [4]	<0.5	<0.5	<0.5	<0.5
ESE-4	06/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-4	09/15/95	<0.5	<50	<0.5	<0.5	<0.5	<0.5
ESE-4	12/15/95	<0.5	57 [4]	<0.5	<0.5	<0.5	<0.5

Table 2
Analytical Data
Fourth Quarter 1995 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
Trip Blank	03/28/94	<1	<50	<0.3	<0.3	<0.3	<0.3
Trip Blank	12/12/94	NA[5]	NA	<0.5	<0.5	<0.5	<0.5
Trip Blank	03/13/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Trip Blank	06/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Trip Blank	12/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Field Blank	03/28/94	NA	NA	NA	NA	NA	NA
Field Blank	12/12/94	NA	NA	<0.5	<0.5	<0.5	<0.5
Field Blank	03/13/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Field Blank	06/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Field Blank	09/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5
Field Blank	12/15/95	NA	NA	<0.5	<0.5	<0.5	<0.5

[1] ug/l = micrigrams 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.

152753

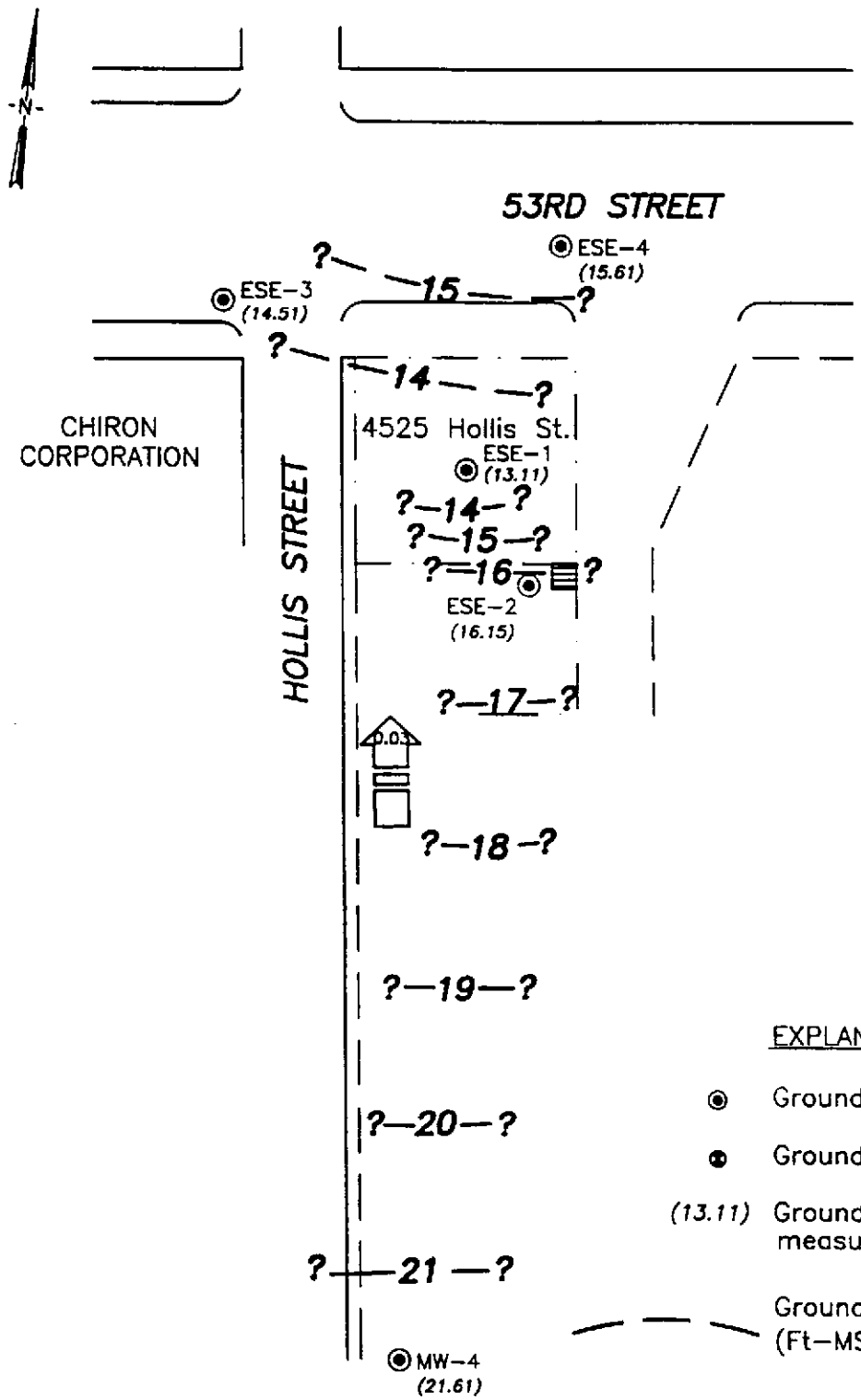


EMCON Associates

PACIFIC GAS & ELECTRIC COMPANY
QUARTERLY MONITORING PROGRAM
EMERYVILLE, CALIFORNIA

SITE LOCATION

FIGURE
1
PROJECT NO.
143-014.02



EMCON

PACIFIC GAS & ELECTRIC COMPANY
QUARTERLY MONITORING PROGRAM
EMERYVILLE, CALIFORNIA

GROUNDWATER CONTOUR MAP
FOURTH QUARTER 1995

FIGURE
2
PROJECT NO.
0143-014.02

MONITORING WELL PURGING PROTOCOL

EMCON

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

EVACUATE 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.

WELL EVACUATED TO PRACTICAL LIMITS OF DRYNESS BEFORE REMOVING CALCULATED PURGE VOLUME

NO

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

WELL PURGING CRITERIA MET; PROCEED TO WELL SAMPLING

NO

CONTINUE PURGING; EVACUATE ADDITIONAL CASING VOLUME OF WATER, MONITORING INDICATOR PARAMETERS FOR STABILITY.

YES

WELL RECHARGES TO A LEVEL SUFFICIENT FOR SAMPLE COLLECTION WITHIN 24 HOURS OF EVACUATION TO DRYNESS.

YES

FIELD TEST FIRST RECHARGE WATER FOR INDICATOR PARAMETERS AND TURBIDITY, THEN PROCEED TO WELL SAMPLING.

NO

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

Signature

Historical Monitoring Well Data
PG&E Emeryville
0143-014.002

Well ID	Date	Depth to Floating Product (feet)	First Depth to Water (feet)	Second Depth to Water (feet)	Floating Product Thickness (feet)	Well Total Depth (feet)	Comments
Depth to liquid : 0.01 foot							Total depth : 0.1 foot
	03/13/95		8.26	8.26	ND	30.6	
	06/15/95		9.50	9.50	ND	30.6	
	09/15/95		10.13	10.13	ND	30.6	
ESE-1	12/15/95		10.55	10.55	NA	33.8	Time: 0856 Lock: None
	03/13/95		12.48	12.48	ND	34.3	
	06/15/95		13.85	13.85	ND	34.3	
	09/15/95		14.22	14.22	ND	34.3	
ESE-2			11.65	11.65	NA	34.1	Time: 0859 Lock: Dolphin
	03/13/95		9.45	9.45	ND	31.0	
	06/15/95		10.27	10.27	ND	31.0	
	09/15/95		10.87	10.87	ND	31.0	
ESE-3			9.40	9.40	ND	31.0	Time: 0847 Lock: 3210
	03/13/95		8.90	8.90	ND	31.6	
	06/15/95		9.81	9.81	ND	31.6	
	09/15/95		10.85	10.85	ND	31.6	
ESE-4			8.72	8.72	NA	31.6	Time: 0901 Lock: 3210
	03/13/95		9.84	9.84	ND	14.7	
	06/15/95		10.74	10.74	ND	14.7	
	09/15/95		10.90	10.90	ND	14.7	
MW-4			6.53	6.53	NA	14.7	Time: 0843 Lock: None

Rev. 3, 2/94

WATER SAMPLE FIELD DATA SHEET

EMCON ASSOCIATES

PROJECT NO: 20943.014.002 SAMPLE ID: ESE-1

PURGED BY: M. Gallegos CLIENT NAME: PG&E

SAMPLED BY: CV LOCATION: Emeryville, CA

TYPE: Ground Water Y Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL):	NR	VOLUME IN CASING (gal.):	3.79
DEPTH TO WATER (feet):	10.55	CALCULATED PURGE (gal.):	15.18
DEPTH OF WELL (feet):	33.8	ACTUAL PURGE VOL. (gal.):	15.5

DATE PURGED: 12-15-95 Start (2400 Hr) 0927 End (2400 Hr) 0943

DATE SAMPLED: 12-15-95 Start (2400 Hr) 0950 End (2400 Hr) ___

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
0931	4.0	6.68	495	64.0	BRN	HEAVY
0935	8.0	6.97	509	64.9		
0926	12.0	7.03	506	64.9		
0943	15.5	7.04	511	65.1	√	√

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

Field QC samples collected at this well: NR

Parameters field filtered at this well: NR

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

WELL INTEGRITY: Good LOCK #: slip cap

REMARKS: G.W. sampled for gas.

Meter Calibration: Date: 12/15/95 Time: 0925 Meter Serial #: 9017 Temperature °F: 63.6

(EC 1000 1141 / 1000) (DI ___) (pH 7 677 / 700) (pH 10 1007 / 1000) (pH 4 397 / ___)

Location of previous calibration: ___

Signature: [signature] Reviewed By: KR Page 1 of 4

Rev. 3, 2/94

WATER SAMPLE FIELD DATA SHEET

EMCON ASSOCIATES

PROJECT NO: 2014.3.014.00 SAMPLE ID: ESE-2

PURGED BY: M. Gallacci CLIENT NAME: PG&E

SAMPLED BY: M LOCATION: Emeryville, Ca.

TYPE: Ground Water ✓ Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): N/A VOLUME IN CASING (gal.): 31.6

DEPTH TO WATER (feet): 11.65 CALCULATED PURGE (gal.): 14.65

DEPTH OF WELL (feet): 34.1 ACTUAL PURGE VOL. (gal.): 15.0

DATE PURGED: 12-15-95 Start (2400 Hr) 1008 End (2400 Hr) 1023

DATE SAMPLED: ✓ Start (2400 Hr) 1030 End (2400 Hr) —

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1012	5.5	7.19	586	64.0	BRN	HEAVY
1015	7.0	7.16	585	64.5		
1019	11.0	7.17	585	64.6		
1023	15.00	7.12	591	64.7	↓	↓

D. O. (ppm): N/A ODOR: None

COLOR (COBALT 0 - 500): N/A

TURBIDITY (NTU 0 - 200 or 0 - 1000): N/A

Field QC samples collected at this well: N/A

Parameters field filtered at this well: N/A

PURGING EQUIPMENT

___ 2" Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Well Wizard™
___ Bailer (Teflon®)
X Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated
Other: ___

SAMPLING EQUIPMENT

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

WELL INTEGRITY: Good LOCK #: A-1PL...

REMARKS: All Samples taken.

Meter Calibration: Date: 12-15-95 Time: ___ Meter Serial #: 5017 Temperature °F: ___

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

Location of previous calibration: ESE-1

Signature: M. Gallacci Reviewed By: KR Page 2 of 4

Rev. 3, 2/94

WATER SAMPLE FIELD DATA SHEET

EMCON ASSOCIATES

PROJECT NO: 2143-014.002 SAMPLE ID: ESE-3

PURGED BY: M. GALLEGOS CLIENT NAME: PG&E

SAMPLED BY: V LOCATION: Emeryville, CA

TYPE: Ground Water ✓ Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): N/R VOLUME IN CASING (gal.): 3.46

DEPTH TO WATER (feet): 4.80 CALCULATED PURGE (gal.): 13.84

DEPTH OF WELL (feet): 31.0 ACTUAL PURGE VOL. (gal.): 14.0

DATE PURGED: 12-15-95 Start (2400 Hr) 1221 End (2400 Hr) 1234

DATE SAMPLED: V Start (2400 Hr) 1245 End (2400 Hr) ___

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1224	3.5	7.35	540	63.7	BRN	HEAVY
1227	7.0	7.22	553	64.1		
1231	10.5	7.25	555	64.0		
1234	14.0	7.28	556	64.2	V	V

D. O. (ppm): N/A ODOR: NONE

N/R (COBALT 0 - 500) N/R (NTU 0 - 200 or 0 - 1000)

Field QC samples collected at this well: FR-2 (1250)?

Parameters field filtered at this well: N/2

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 X Bailer (Teflon®)
___ DDL Sampler ___ Bailer (Stainless Steel)
___ Dipper ___ Submersible Pump
___ Well Wizard™ ___ Dedicated
Other: ___

WELL INTEGRITY: G.A. LOCK #: 3210

REMARKS: Grab sample taken, Well Car parked on well on 12-15-95; unable to sample on that day

Meter Calibration: Date: 12-15-95 Time: 1615 Meter Serial #: 50,7 Temperature °F: 62.6

(EC 1000 1041 / 1000) (DI ___) (pH 7 6.99 / 7.00) (pH 10 10.01 / 10.00) (pH 4 4.00 / 4.00)

Location of previous calibration: ___

Signature: [signature] Reviewed By: KB Page 3 of 4

Rev. 3, 2/94

WATER SAMPLE FIELD DATA SHEET

EMCON ASSOCIATES

PROJECT NO: 20143-014.002 SAMPLE ID: FSE-4

PURGED BY: M Gallegos CLIENT NAME: PG&E

SAMPLED BY: " LOCATION: Emeryville, CA

TYPE: Ground Water X Surface Water ___ Treatment Effluent ___ Other ___

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

CASING ELEVATION (feet/MSL): N/A VOLUME IN CASING (gal.): 3.73

DEPTH TO WATER (feet): 8.72 CALCULATED PURGE (gal.): 14.94

DEPTH OF WELL (feet): 31.6 ACTUAL PURGE VOL. (gal.): 15.0

DATE PURGED: 12-15-95 Start (2400 Hr) 1054 End (2400 Hr) 1108

DATE SAMPLED: " Start (2400 Hr) 1115 End (2400 Hr) ___

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
1057	3.5	7.09	556	64.1	BRN	Heavy
1100	7.0	7.07	556	64.4		
1104	11.0	7.07	552	64.6		
1108	15.0	7.05	555	64.6	"	"

D. O. (ppm): N/R ODOR: None

COLOR (COBALT 0 - 500): N/R

TURBIDITY (NTU 0 - 200 or 0 - 1000): N/R

Field QC samples collected at this well: FR-1 (1125)

Parameters field filtered at this well: N/R

PURGING EQUIPMENT

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

Other: ___

SAMPLING EQUIPMENT

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

Other: ___

WELL INTEGRITY: Good LOCK #: 3210

REMARKS: All samples to lab

Meter Calibration: Date: 12/15/95 Time: ___ Meter Serial #: 5017 Temperature °F: ___

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

Location of previous calibration: FSE-1

Signature: [signature] Reviewed By: KR Page 4 of 4

EMCON - Drum Inventory Record

20143-014.002 **Project No**	Emeryville, CA **Location**	12-15-95 **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	ESE-1 ESE-2 ESE-4	Groundwater	450 gallons	12-15-95
B	ESE-3	↓	15.0	12-19-95

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: **14-Dec-95**

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
Deliver the samples to Chromalab when finished.
Bring samples back to the office; Chromalab in C pkt Monday 12-18 KR

Authorization: _____

Project No. : **20143-014.002**
Task Code: _____

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

Coordinator: **K Reichelderfer**

Well Locks:

PG&E Project
Coordinator: Mr. Fred Flint
Site Contact: Mr. Mel Byrd

Phone No.: (510) 866-5808
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** **BTEX by EPA 602** **TEPH as dielectric by EPA 3510/8015**
ESE-2	2.0	34.3	
ESE-3	2.0	31.0	
ESE-4	2.0	31.6	
FB-1	NA	NA	**BTEX by EPA 602**
TB-1	NA	NA	
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

JAN 15 1996

CHROMALAB, INC.

Environmental Services (SDB)

RECEIVED
JAN 15 1996
EMCON/SACRAMENTO

December 26, 1995

Submission #: 9512313

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E-EMERYVILLE
Project#: 20143-014.002
Received: December 21, 1995

re: 1 sample for BTEX analysis.
Method: EPA 602/8020

Sampled: December 19, 1995 *Matrix:* WATER
Run: 9874-2 *Analyzed:* December 22, 1995

Spl #	Sample ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
114688	ESE-3	N.D.	N.D.	N.D.	N.D.
	Reporting Limits	0.5	0.5	0.5	0.5
	Blank Result	N.D.	N.D.	N.D.	N.D.
	Blank Spike Result (%)	104	101	103	47

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 27, 1995 *Submission #:* 9512313

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham

Project: PG&E-EMERYVILLE *Project#:* 20143-014.002
Received: December 21, 1995

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

SampleID: **ESE-3**
Sample #: 114688 *Matrix:* WATER *Extracted:* December 26, 1995
Sampled: December 19, 1995 *Run:* 9901-D *Analyzed:* December 26, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.5	N.D.	100
AROCLOR 1221	N.D.	0.5	N.D.	--
AROCLOR 1232	N.D.	0.5	N.D.	--
AROCLOR 1242	N.D.	0.5	N.D.	--
AROCLOR 1248	N.D.	0.5	N.D.	--
AROCLOR 1254	N.D.	0.5	N.D.	--
AROCLOR 1260	N.D.	0.5	N.D.	115

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 29, 1995 *Submission #:* 9512313

EMCON ASSOCIATES, SACRAMENTO

Atten: J.C. Isham
Project: PG&E-EMERYVILLE *Project#:* 20143-014.002
Received: December 21, 1995
re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.
Method: EPA 3510/8015M
Sampled: December 19, 1995 *Matrix:* WATER *Extracted:* December 26, 1995
Run: 9891-K *Analyzed:* December 26, 1995

Spl #	Sample ID	Kerosene (ug/L)	Diesel (ug/L)	Motor Oil (ug/L)
114688	ESE-3	N.D.	N.D.	N.D.
	Reporting Limits	50	50	500
	Blank Result	N.D.	N.D.	N.D.
	Blank Spike Result (%)	--	80	--

Michael Verona
Chemist

Alex Tam
Semivolatiles Supervisor

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 23, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

re: 5 samples for BTEX analysis.
Method: EPA 602/8020

Sampled: December 15, 1995 *Matrix:* WATER
Run: 9842-2 *Analyzed:* December 20, 1995

Spl #	Sample ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
114246	ESE-1	N.D.	N.D.	N.D.	N.D.
114247	ESE-2	N.D.	N.D.	N.D.	N.D.
114248	ESE-4	N.D.	N.D.	N.D.	N.D.
114249	FB-1	N.D.	N.D.	N.D.	N.D.
114250	TB-1	N.D.	N.D.	N.D.	N.D.
Reporting Limits		0.5	0.5	0.5	0.5
Blank Result		N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		105	104	106	49

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

630
N:QC1201 ALEXANDM 08:49:17

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

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

SampleID: **ESE-1**
Sample #: 114246 *Matrix:* WATER *Extracted:* December 21, 1995
Sampled: December 15, 1995 *Run:* 9879-D *Analyzed:* December 22, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.5	N.D.	--
AROCLOR 1221	N.D.	0.5	N.D.	--
AROCLOR 1232	N.D.	0.5	N.D.	--
AROCLOR 1242	N.D.	0.5	N.D.	--
AROCLOR 1248	N.D.	0.5	N.D.	--
AROCLOR 1254	N.D.	0.5	N.D.	--
AROCLOR 1260	N.D.	0.5	N.D.	107

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

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(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

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

SampleID: **ESE-2**
Sample #: 114247 *Matrix:* WATER *Extracted:* December 21, 1995
Sampled: December 15, 1995 *Run:* 9879-D *Analyzed:* December 22, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.5	N.D.	--
AROCLOR 1221	N.D.	0.5	N.D.	--
AROCLOR 1232	N.D.	0.5	N.D.	--
AROCLOR 1242	N.D.	0.5	N.D.	--
AROCLOR 1248	N.D.	0.5	N.D.	--
AROCLOR 1254	N.D.	0.5	N.D.	--
AROCLOR 1260	N.D.	0.5	N.D.	107

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

FAX TO J.C. ISHAM (EMCON-SAC) 916-928-3341
408-437-9526 12/26

1129
N:QC1201 DENNIS 10:39:05

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

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

SampleID: **ESE-4**
Sample #: 114248 *Matrix:* WATER *Extracted:* December 21, 1995
Sampled: December 15, 1995 *Run:* 9879-D *Analyzed:* December 22, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
AROCLOR 1016	N.D.	0.5	N.D.	--
AROCLOR 1221	N.D.	0.5	N.D.	--
AROCLOR 1232	N.D.	0.5	N.D.	--
AROCLOR 1242	N.D.	0.5	N.D.	--
AROCLOR 1248	N.D.	0.5	N.D.	--
AROCLOR 1254	N.D.	0.5	N.D.	--
AROCLOR 1260	N.D.	0.5	N.D.	107

Dennis Mayugba
Chemist

Alex Tam
Semivolatiles Supervisor

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

JAN 2 4 1996

January 18, 1996 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE *Revised from report sent previously.*

Atten: J.C. Isham
Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995
re: 3 samples for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.
Method: EPA 3510/8015M
Sampled: December 15, 1995 *Matrix:* WATER *Extracted:* December 21, 1995
Run: 9852-K *Analyzed:* December 21, 1995

Spl #	Sample ID	Kerosene (ug/L)	Diesel (ug/L)	Motor Oil (ug/L)
114246	ESE-1	N.D.	N.D.	N.D.
	For above sample:	*Sample profile is similiar to that of Transformer OIl reference standard supplied by the client for submission 9506206, conc. = 440ug/L, compared to Diesel calibration.*		
114247	ESE-2	N.D.	N.D.	N.D.
114248	ESE-4	N.D.	N.D.	N.D.
	For above sample:	*Hydrocarbons in the Diesel range, conc.= 57ug/L.*		
Reporting Limits		50	50	500
Blank Result		N.D.	N.D.	N.D.
Blank Spike Result (%)		--	73	--

Kayvan Kimyai
Chemist

Alex Tam
Semivolatiles Supervisor

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

re: **Surrogate** report for 3 samples for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Matrix: WATER *Extracted:* December 21, 1995
Lab Run#: 9852 *Analyzed:* December 21, 1995
Method: EPA 3510/8015M

Sample#	Client Sample ID	Surrogate	% Recovered	% Limits
114246	ESE-1	O-TERPHENYL	98	60-120
114247	ESE-2	O-TERPHENYL	86	60-120
114248	ESE-4	O-TERPHENYL	86	60-120

Sample#	QC Sample Type	Surrogate	% Recovered	% Limits
114615	*Method blank (MDB)*	O-TERPHENYL	88	60-120
114616	*Blank Spike (BSP)*	O-TERPHENYL	82	60-120
114617	*Blank Spike Duplicate (BSD)*	O-TERPHENYL	93	60-120

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1995 *Submission #:* 9512249

EMCON ASSOCIATES, SAN JOSE

Atten: J.C. Isham

Project: PG&E, EMERYVILLE *Project#:* 20143-014.002
Received: December 18, 1995

re: **Blank spike and duplicate** report for 3 samples for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Matrix: WATER *Extracted:* December 21, 1995
Lab Run#: 9852 *Analyzed:* December 21, 1995
Method: EPA 3510/8015M

Analyte	Spike Amt	% Spike Rec	Dup Spike Rec	Control Limits	% RPD	RPD Lim
DIESEL	200 ug/L	73.0	86	60-130	16	25

Reagent spike sample#: 114616
Duplicate spike sample#: 114617

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

EMCON - San Jose

249/114246-114250

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

CHAIN OF CUSTODY /LABORATORY ANALYSIS REQUEST FORM

25588

Date 12-15-95 Page 1 of 1

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)
Sampler's Signature:

SUBM #: 9512249 REP: GC
CLIENT: EMCON-SJ
DUE: 12/26/95
REF #:25588

Sample I.D.	Date	Time	LAB I.D.	Sample Matrix	Number of Containers	BTXE by EPA 602	PCBs by EPA 8080	TEPH as dielectric by EPA 3510/8015	REMARKS
						HCl	NP	NP	Preservations
ESE-1	12/15/95	0950		H2O	6	X	X	X	
ESE-2		1030			6	X	X	X	
ESE-3		1115			6	X	X	X	
FB-1		1125			2	X			
TB-1		—			2	X			
ESE-3	no	samples	taken	cur	packed	on	top	OF	well

Relinquished By	Received By
Signature: Manuel Gallegos	Signature: J Butera
Printed Name: Emcon	Printed Name: EMCON SF
Firm: 12-15-95	Firm: 12/16/95
Date/Time	Date/Time
Relinquished By	Received By
Signature: J Butera	Signature: [illegible]
Printed Name: EMCON	Printed Name: [illegible]
Firm: 12/18/95 1315	Firm: 12-18-95 1715
Date/Time	Date/Time

TURNAROUND REQUIREMENTS
___ 24 hr ___ 48 hr
X Standard
___ Provide Verbal Preliminary Results
X Provide FAX Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
X I. Routine Report
___ II. Report (includes DUP, MS MSD, as required, may be charged as samples)
___ 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:
Tier I QC
Relinquished by: [illegible] 12-18-95 1915
Rec'd by: Minnie Pale 19:15 12/18/95
Send results to J.C. Isham at Emcon-Sacramento (please FAX preliminary results) (916) 928 3341
Use Dielectric standard previously supplied to Chromalab for TEPH Analysis

EMCON - San Jose

CHAIN OF CUSTODY /LABORATORY ANALYSIS REQUEST FORM

25677

313/1114688

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

Date 12-19-95 Page ___ of ___

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)**

Sampler's Signature:

SUBM #: 9512313 REP: GC
CLIENT: EMCON
DUE: 12/29/95
REF #:25677

Sample I.D.	Date	Time	LAB I.D.	Sample Matrix	Number of Containers	Analysis Requested: BTXE by EPA 602	PCBs by EPA 8080	TEPH as dielectric by EPA 3510/8015							REMARKS
						HCl	NP	NP							Preservations
ESE-3	12/19/95	1745		H2O	4	X	X	X							

Relinquished By	Received By
Signature: Manuel Gallegos	Signature: Steve Horton
Printed Name: Emcon	Printed Name: EMCON
Firm: 12/19/95 Date/Time	Firm: 12/19/95 Date/Time
Relinquished By	Received By
Signature: Steve Horton	Signature: [illegible]
Printed Name: EMCON	Printed Name: Chromalab
Firm: 12/21/95 Date/Time	Firm: 12-21-95 1400 Date/Time

TURNAROUND REQUIREMENTS
___ 24 hr ___ 48 hr
X Standard
___ Provide Verbal Preliminary Results
X Provide FAX Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
X I. Routine Report
___ II. Report (includes DUP, MS MSD, as required, may be charged as samples)
___ 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:

Tier I QC

Send results to J.C. Isham at Emcon-Sacramento **(please FAX preliminary results)**

Use Dielectric standard previously supplied to Chromalab for TEPH Analysis

Received by: Chromalab Rec'd by: Mimie Pak 12/21/95 1900