Pacific Gas and Electric Company

Technical and Ecological Services 3400 Crow Canyon Road
San Ramon, CA 94583

925.820.2000

April 25, 2001

Ms. Jennifer Eberle
Hazardous Materials Specialist
Alameda County Department of Environmental Health
UST Local Oversight Program
1131 Harbor Way Parkway, 2nd Floor
Alameda, CA 94502-6577

Re: Groundwater Monitoring and Sampling Annual Report, Oakland Power Plant, Oakland, California

Dear Ms. Eberle:

Enclosed is a copy of the Groundwater Monitoring and Sampling Annual Report for Oakland Power Plant at 50 Martin Luther King Jr. Way, Oakland, California. The purpose of this report is to present the results of annual groundwater monitoring and sampling activities conducted at the site on March 1, 2001. This report is submitted to your office as requested in your letter dated April 23, 1993.

The analytical results show that diesel-range hydrocarbons were detected in the groundwater sample collected from well MW-1-2 at a concentration of 140 micrograms per liter (µg/L).

Based on water level measurements made at the site, shallow groundwater is present about 4.0 feet below the surface and groundwater flowed to the north-northwest at a gradient of approximately 0.004 foot per foot.

Based on the low concentrations of diesel-range hydrocarbons measured in samples taken from monitoring wells MW-1-2, MW-1-3, and MW-2-3 during the past four years, we believe that no additional monitoring is warranted at this site and ask that you issue a "no-further-action" letter.

Please contact me at (925) 866-5882 if you wish to discuss this request.

Sincerely,

Korbin D. Creek

Korbin D. Creek
Supervisor, Land and Water Quality Unit

EAGuenther (925-866-5472):dlw
402.331-01.59lt.doc

Enclosure

TES

Groundwater Monitoring and Sampling Annual Report

Oakland Power Plant
50 Martin Luther King Jr. Way
Oakland, California

March 2001

Prepared by

Technical and Ecological Services

April 2001

Report No.: 402.331-01.59

Pacific Gas and Electric Company
Technical and Ecological Services
3400 Crow Canyon Road, San Ramon, California 94583
TES 24-Hr. Service Line: 8-251-3197 or (925) 866-3197

Prepared by:

Elizabeth A. Guenther
Environmental Technical Specialist

Approved by:

Korbin D. Creek
Supervisor, Land and Water Quality Unit

CONTENTS

FIGURES

TABLES

1 INTRODUCTION

This report presents the results of groundwater monitoring performed during the 2001 annual monitoring event to comply with the monitoring requirements for underground diesel dump tanks Nos. 2 and 3 Oakland Power Plant located at 50 Martin Luther King Jr. Way, Oakland, California (see Figure 1).

2 GROUNDWATER GRADIENT AND DIRECTION

The 2001 annual groundwater levels were measured at Oakland Power Plant on March 1, 2001, using an electronic sounding device, and recorded on the monitoring well water level / floating product survey form included in Appendix A. The groundwater elevations are summarized in Table 1. The March data were used to construct a groundwater contour map (Figure 2). March water levels ranged from a low of 9.73 feet above mean sea level (MSL) in well MW-1-3 to a high of 9.98 feet above MSL in well MW-2-3. The estimated groundwater gradient is approximately 0.004 foot per foot (ft/ft) to the north-northwest.

3 SAMPLING, ANALYSIS, AND MONITORING PROGRAM RESULTS

Groundwater samples were collected from wells MW-1-2, MW-1-3, and MW-2-3 on March 1, 2001, consistent with the protocol presented in Figure 3. Samples collected from these wells were analyzed for total petroleum hydrocarbons as diesel (TPHD) using U.S. Environmental Protection Agency (USEPA) Method 3510/8015. Field readings from the 2001 annual monitoring event, including sample temperature, conductivity, and pH, are recorded on the purging and sampling log sheets (see Appendix A).

Based on a letter dated January 11, 1996 from Jennifer Eberle, the Hazardous Materials Specialist with the Alameda County Environmental Health Services Department, the analysis for BTEX was eliminated for well MW-2-3 and the field blank. The analysis for BTEX was eliminated for wells MW-1-2 and MW-1-3 in the second quarter of 1994.

The March 2001 and historical analytical data are summarized in Table 1. Certified analytical reports and chain-of-custody records are included in Appendix B. The analytical results are discussed below:

- Diesel-range hydrocarbons were detected in the groundwater sample collected from well MW-1-2 at a concentration of 140 micrograms per liter (µg/L).

4 FIELD AND LABORATORY QUALITY CONTROL RESULTS

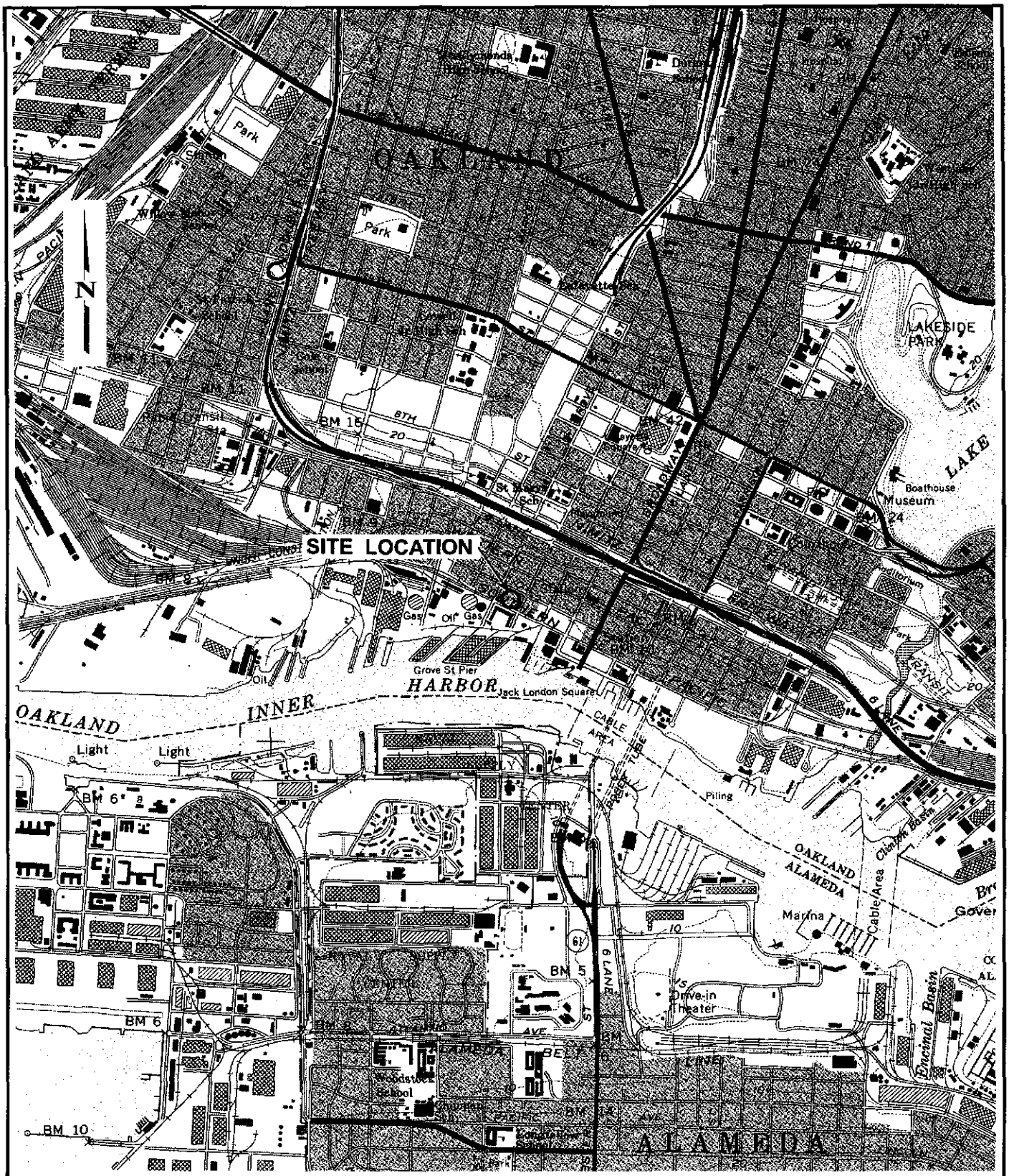
Analytical data were evaluated for accuracy and precision based on field and laboratory quality control (QC) sample performance. The field QC consisted of collecting one field blank and analyzing it for TPHD.

The field blank was collected to assess the effect of field environments on the analytical results and to identify false positives. No parameters were detected above their respective method reporting limits in the field 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) results. Holding times are established by the USEPA and refer to the maximum time allowed 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 were within the laboratory acceptance limits.

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

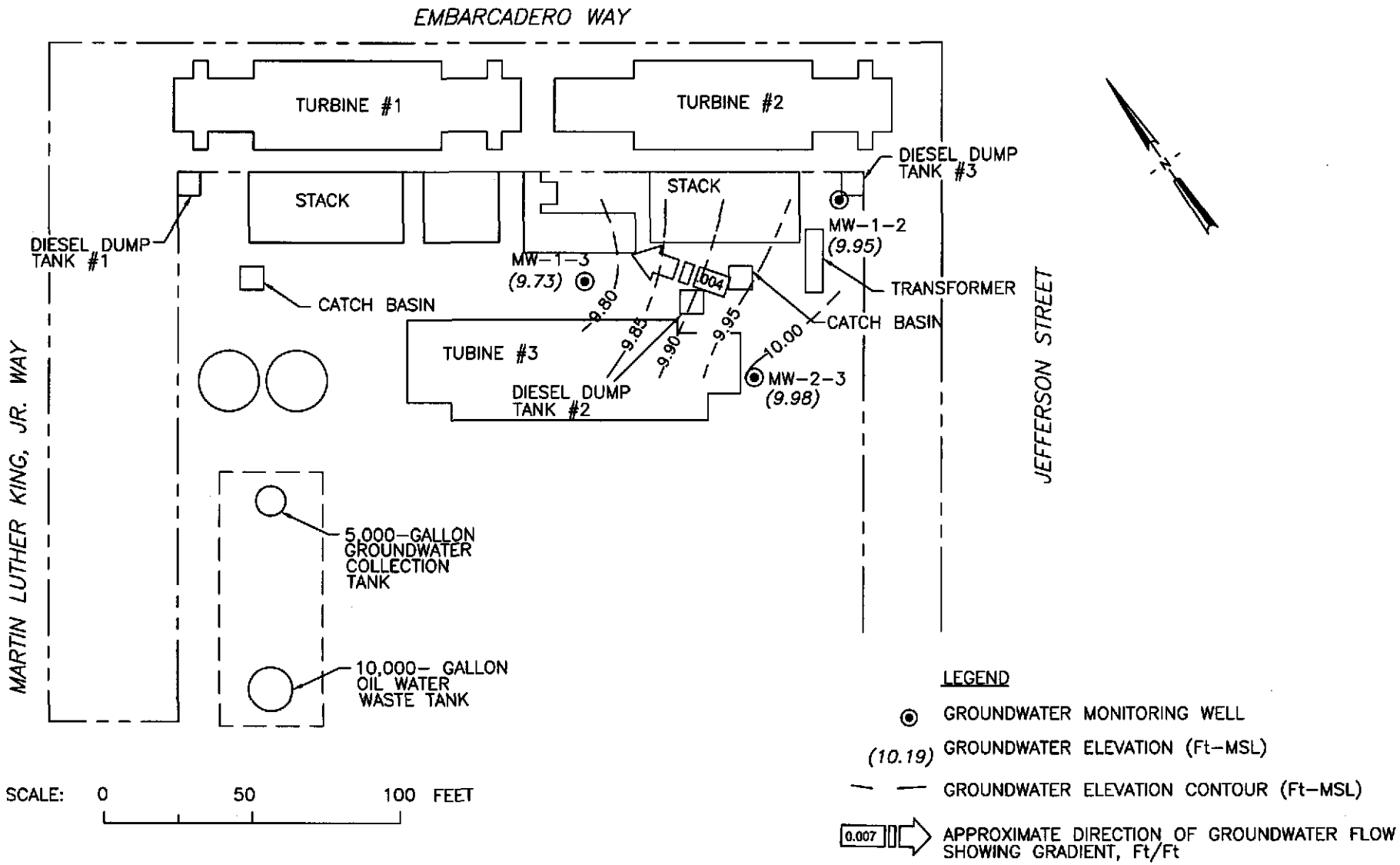


Base map from U.S. Geological Survey 7.5 minute series.
Quadrangle: Oakland West, Calif.

0 2000 Feet

Figure 1. Site Location Map of Oakland Power Plant.

gmdwtr/serv-ctr/Oakland PP



Oakland Power Plant
Groundwater Contour Map - March 1, 2001

TECHNICAL AND ECOLOGICAL SERVICES – LWQU

DRN:LKE	DATE : 3/22/01
CHK:EG	SCALE: As Shown
APR:EPJ	SHEET Oakland PP

FIGURE 2

REV. 0

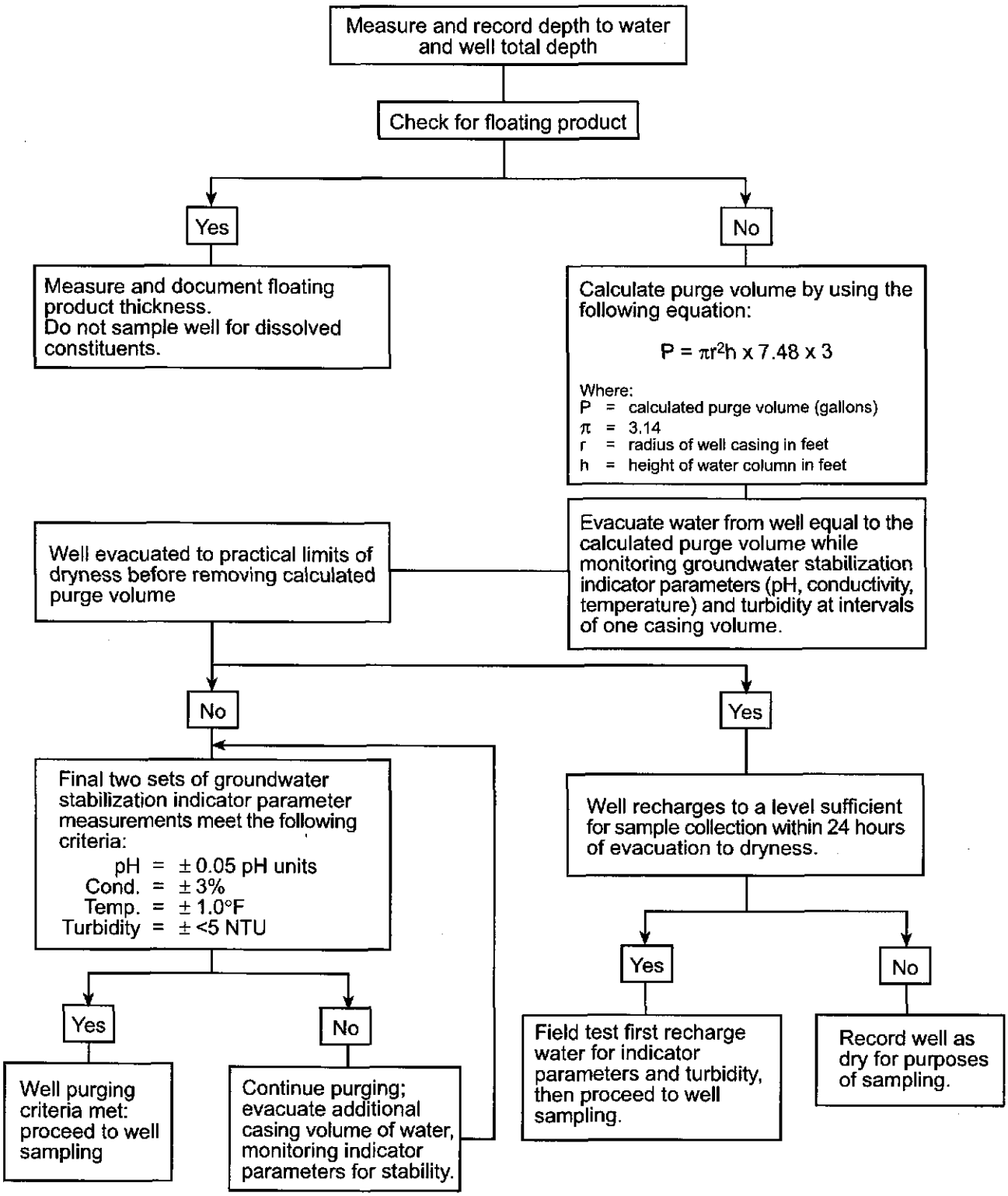


Figure 3. Monitoring Well Purging Protocol

grndwtr/protocol

Table 1
Oakland Power Plant
March 2001 and Historical Monitoring Data

Sample Designation	Sampling Date	Top of Casing (ft/MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft/MSL)	TPHD µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L
MW-1-2	06/22/93	13.95	5.05	8.90	1,500 [1]	<0.5	<0.5	<0.5	<0.5
MW-1-2	09/22/93		5.91	8.04	240	<0.5	<0.5	<0.5	<0.5
Dup	09/22/93		---	---	---	<0.5	<0.5	<0.5	<0.5
MW-1-2	12/28/93		4.77	9.18	200	<0.5	<0.5	<0.5	<0.5
Dup	12/28/93		---	---	---	<0.5	<0.5	<0.5	<0.5
MW-1-2	04/11/94		4.66	9.29	---	<0.5	<0.5	<0.5	<0.5
Dup	04/11/94		---	---	---	<0.5	<0.5	<0.5	<0.5
MW-1-2	04/20/94		4.86	9.09	600	---	---	---	---
MW-1-2	06/29/94		5.18	8.77	520	---	---	---	---
MW-1-2	10/07/94		4.55	9.40	590	---	---	---	---
MW-1-2	01/03/95		4.11	9.84	650 [1]	---	---	---	---
MW-1-2	03/24/95		3.57	10.38	740 [1]	---	---	---	---
MW-1-2	06/30/95		4.69	9.26	540	---	---	---	---
MW-1-2	10/12/95		5.35	8.60	230 [1]	---	---	---	---
MW-1-2	01/18/96		4.19	9.76	600 [1]	---	---	---	---
MW-1-2	02/19/96		4.03	9.92	670 [1]	---	---	---	---
MW-1-2	02/28/97		4.73	9.22	1,800 [1]	---	---	---	---
MW-1-2	02/24/98		3.50	10.45	430 [1]	---	---	---	---
MW-1-2	02/17/99		3.33	10.62	130 [1,5]	---	---	---	---
MW-1-2	02/16/00		3.42	10.53	710 [1]	---	---	---	---
MW-1-2	03/01/01		4.00	9.95	140 [1]	---	---	---	---
MW-1-3	06/22/93	14.01	5.15	8.86	160 [1]	<0.5	<0.5	<0.5	<0.5
MW-1-3	09/22/93		5.57	8.44	430	<0.5	<0.5	<0.5	<0.5
MW-1-3	12/28/93		5.13	8.88	<50	<0.5	<0.5	<0.5	<0.5
MW-1-3	04/11/94		5.01	9.00	---	<0.5	<0.5	<0.5	<0.5
MW-1-3	04/20/94		5.09	8.92	<50	---	---	---	---
MW-1-3	06/29/94		5.30	8.71	280 [1]	---	---	---	---
MW-1-3	10/07/94		5.69	8.32	160 [1]	---	---	---	---
MW-1-3	01/03/95		4.62	9.39	210 [1]	---	---	---	---
MW-1-3	06/30/95		4.89	9.12	231 [1]	---	---	---	---

Table 1
Oakland Power Plant
March 2001 and Historical Monitoring Data

Sample Designation	Sampling Date	Top of Casing (ft/MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft/MSL)	TPHD µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L
MW-1-3	10/12/95		5.43	8.58	190 [1]	---	---	---	---
MW-1-3	01/18/96		4.72	9.29	240 [1]	---	---	---	---
MW-1-3	02/19/96		4.41	9.60	290 [1]	---	---	---	---
MW-1-3	02/28/97		4.90	9.11	1,500 [1]	---	---	---	---
MW-1-3	02/24/98		3.82	10.19	160 [1]	---	---	---	---
MW-1-3	02/17/99		4.10	9.91	<50 [5]	---	---	---	---
MW-1-3	02/16/00		3.80	10.21	150 [1]	---	---	---	---
MW-1-3	03/01/01		4.28	9.73	<50	---	---	---	---
MW-2-3	06/22/93	13.91	5.00	8.91	560 [2]	3	<0.5	<0.5	<0.5
MW-2-3	09/22/93		5.50	8.41	460	<0.5	<0.5	<0.5	<0.5
MW-2-3	12/28/93		4.74	9.17	<50 [3]	<0.5	<0.5	<0.5	<0.5
MW-2-3	04/11/94		5.62	8.29	---	<0.5	<0.5	<0.5	<0.5
MW-2-3	04/20/94		5.83	8.08	<50	---	---	---	---
MW-2-3	06/29/94		5.14	8.77	920 [1,4]	<0.5	<0.5	<0.5	<0.5
MW-2-3	10/07/94		5.50	8.41	<50	16	13	6	24
MW-2-3	01/03/95		4.11	9.80	190 [1]	<0.5	<0.5	<0.5	<0.5
MW-2-3	03/24/95		3.47	10.44	110 [1]	<0.5	<0.5	<0.5	<0.5
Dup	03/24/95		---	---	---	<0.5	<0.5	<0.5	<0.5
MW-2-3	06/30/95		4.66	9.25	187 [1]	<0.5	<0.5	<0.5	<0.5
Dup	06/30/95		---	---	---	<0.5	<0.5	<0.5	<0.5
MW-2-3	10/12/95		5.30	8.61	290 [1]	<0.5	<0.5	<0.5	<0.5
MW-2-3	01/18/96		4.15	9.76	370 [1]	---	---	---	---
MW-2-3	02/19/96		3.97	9.94	320 [1]	---	---	---	---
MW-2-3	02/28/97		4.70	9.21	610 [1]	---	---	---	---
MW-2-3	02/24/98		3.40	10.51	140 [1]	---	---	---	---
MW-2-3	02/17/99		3.31	10.60	<50 [5]	---	---	---	---
MW-2-3	02/16/00		3.27	10.64	190 [1]	---	---	---	---
MW-2-3	03/01/01		3.93	9.98	<50	---	---	---	---

Table 1
Oakland Power Plant
March 2001 and Historical Monitoring Data

Sample Designation	Sampling Date	Top of Casing (ft/MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft/MSL)	TPHD µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L
Travel Blank	09/22/93				---	<0.5	<0.5	<0.5	<0.5
Travel Blank	12/28/93				---	<0.5	<0.5	<0.5	<0.5
Travel Blank	04/11/94				---	<0.5	<0.5	<0.5	<0.5
Travel Blank	01/03/95				---	<0.5	<0.5	<0.5	<0.5
Travel Blank	03/24/95				---	<0.5	0.5	<0.5	<0.5
Travel Blank	06/30/95				---	<0.5	<0.5	<0.5	<0.5
Travel Blank	10/12/95				---	<0.5	<0.5	<0.5	<0.5
Trip Blank	01/18/96				<50	---	---	---	---
Field Blank	02/19/96				<50	---	---	---	---
Field Blank	02/28/97				<50	---	---	---	---
Field Blank	02/24/98				<50	---	---	---	---
Field Blank	02/17/99				<50	---	---	---	---
Field Blank	02/16/00				<50	---	---	---	---
Field Blank	03/01/01				<50	---	---	---	---

TPHD = Total petroleum hydrocarbons as diesel.
ft/MSL = Feet with respect to mean sea level.
µg/L = Micrograms per liter.
Dup = Blind duplicate.
[1] Unknown hydrocarbon in diesel range quantified as diesel.
[2] Motor oil at a concentration of 3.1 milligrams per liter detected in sample.
[3] Motor oil at a concentration of 2.9 milligrams per liter detected in sample.
[4] Unknown hydrocarbon in motor oil range was also observed in sample.
[5] Sample preparation included silica gel clean-up.
--- = Not analyzed.

Appendix A

MONITORING WELL WATER LEVEL / FLOATING PRODUCT SURVEY FORM AND PURGING AND SAMPLING LOG SHEETS

FIELD REPORT
WATER LEVEL / FLOATING PRODUCT SURVEY
PACIFIC GAS & ELECTRIC COMPANY - TES

Site location: OAKLAND PP

Survey date: 3/1/01

Sampler: DAWSON WRIGHT

Well ID	Casing elevation (ft, MSL)	Time of level	Total depth (ft)	Depth to water (ft)	Depth to floating product (ft)	Floating product thickness (ft)	Dissolved oxygen (mg/L	Temp. (^{0}C)	Comments
MW-1-2		0820	13.5	4.00	N/A				
MW-1-3		0825	7.1	4.28	NA				
MW-2-3		0830	13.3	3.93	NA				

Comments:

Signature

TES - DRUM INVENTORY RECORD

Swims No.

OAKLAND PP
Location

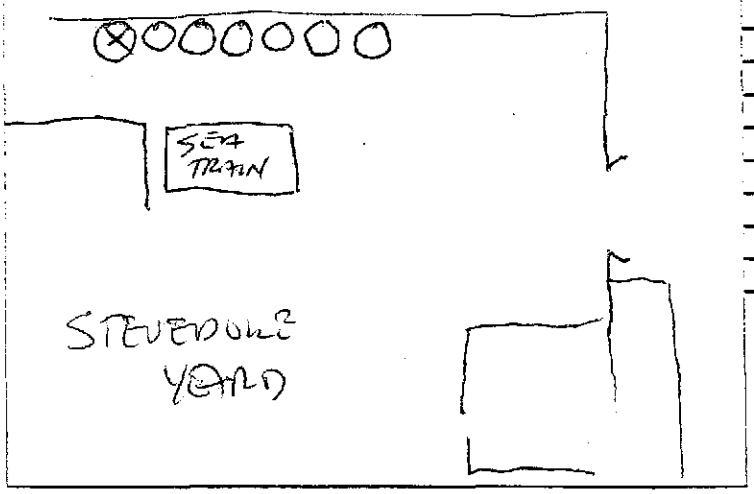
3/1/01
Date

E. GUENTHER
Site Lead

D. WRIGHT
Sampler

DRUM NUMBER (6 digit date + seq. #) eg. 070498A	WELL NO. OR SOURCE ID	TYPE OF MATERIAL	AMOUNT OF MATERIAL IN DRUM	DATE ACCUMULATED OR GENERATED
#030101	MW-1-2, 1-3, 2-3	GROUND WATER	40 gal	3/1/01

Sketch locations of drums, include drum ID's



Comments:

Number of drums from this event: 1

Total number of drums at site: 7

Pacific Gas & Electric Co. - TES
Groundwater Purging and Sampling Log

Site: OAKLAND PP | Job ID: | Well ID: MW-1-2
Purge date: 3/1/01 | Sampler: D. WRIGHT | Weather: SUNNY
Sample date: 3/1/01 | Sampler: D. WRIGHT

Depth measurements and purge volume calculation

Measuring point: TOC @ | Hydrocarbon odor: yes (no)
Depth of well (DTB): 13.5 ft. | Thickness:
Depth to water (DTW): 4.00 ft.
Total water depth (TD): 9.50 ft.
Measurement method: solinst slope indicator

TD		casing factor		gal. per vol.		volumes		total purge volume (gal)
9.5	x	.66	=	6.27	x	3	=	18.8

Casing factor: for 2" dia. = 0.17 gallons per ft.
for 3" dia. = 0.38 gallons per ft.
(for 4" dia. = 0.66 gallons per ft.)
for 6" dia. = 1.47 gallons per ft.

Purge water data

Time Start	Time End	Cumulative volume (gal.)	pH	Conductivity (umho/cm)	Turbidity	Temp. (deg. C)	Comments
0841	0846	6.25	7.32	1829	CLEAR	16.9	
0850	0856	12.5	7.24	1403	CLEAR	16.8	
0859	0905	18.5	7.17	1253	CLEAR	16.9	SULFUR ODOR

Methods

(circle methods used)

Discharge disposal: ground (barrel) pond treatment system
Purging: (surface pump) bailer submersible
Sampling: (disp. bailer) bailer dedicated pump
Decontamination: (soap/DI) pressure wash dedicated equip.

Calibration

calibrated (yes) no
temp. corrected (yes) no

pH meter Y513500
pH 4 = 4.00
pH 7 = 7.00
pH 10 = 10.00

Cond. meter Y513500
std. 1,000 = 1004
std. 10,000 =

Samples

Sample time: 1130
Lab analyses: TPH-D

Remarks

Pacific Gas & Electric Co. - TES
Groundwater Purging and Sampling Log

Site: OAKLAND PP | Job ID: | Well ID: MW-1-3
Purge date: 3/1/01 | Sampler D WRIGHT | Weather: SUNNY
Sample date: 3/1/01 | Sampler D WRIGHT

Depth measurements and purge volume calculation

Measuring point: TOC @ | Hydrocarbon odor yes (no)
Depth of well (DTB): 7.1 ft. | Thickness
Depth to water (DTW): 4.28 ft.
Total water depth (TD): 2.82 ft.
Measurement method: solinst slope indicator

TD	casing factor		gal. per vol.	volumes	total purge volume (gal)
2.82	x .66	=	1.9	x 3	= 5.7

Casing factor: for 2" dia. = 0.17 gallons per ft.
for 3" dia. = 0.38 gallons per ft.
(for 4" dia. = 0.66 gallons per ft.)
for 6" dia. = 1.47 gallons per ft.

Purge water data

Time Start	Time End	Cumulative volume (gal.)	pH	Conductivity (umho/cm)	Turbidity	Temp. (deg. C)	Comments
0928	0931	2.0	7.42	2300	CLEAR	19.5	
0940	0943	4.0	7.54	1856	CLEAR	21.3	
0948	0950	6.0	7.53	1745	CLEAR	21.3	

Methods

(circle methods used)

Discharge disposal:	ground (barrel)	pond	treatment system
Purging:	(surface pump)	bailer	submersible
Sampling:	(disp bailer)	bailer	dedicated pump
Decontamination:	(soap/DI)	pressure wash	dedicated equip.

Calibration

calibrated (yes) no
temp. corrected (yes) no

pH meter YSI 3500
pH 4 = 4.00
pH 7 = 7.00
pH 10 = 10.00

Cond. meter YSI 3500
std. 1,000 = 1004
std. 10,000 =

Samples

Sample time: 1100
Lab analyses: TPH-D

Remarks

Pacific Gas & Electric Co. - TES
Groundwater Purging and Sampling Log

Site: OAKLAND PP | Job ID: | Well ID: MW-2-3
Purge date: 3/1/01 | Sampler: D. WRIGHT | Weather: SUNNY
Sample date: 3/1/01 | Sampler: D. WRIGHT

Depth measurements and purge volume calculation

Measuring point: TOC @
Depth of well (DTB): 13.3 ft.
Depth to water (DTW): 3.93 ft.
Total water depth (TD): 9.37 ft.
Measurement method: solinst slope indicator

Hydrocarbon odor: yes (no)
Thickness:

TD		casing factor		gal. per vol.		volumes		total purge volume (gal)
9.37	x	.66	=	6.18	x	3	=	18.5

Casing factor: for 2" dia. = 0.17 gallons per ft.
for 3" dia. = 0.38 gallons per ft.
(for 4" dia. = 0.66 gallons per ft.)
for 6" dia. = 1.47 gallons per ft.

Purge water data

Time Start	Time End	Cumulative volume (gal.)	pH	Conductivity (umho/cm)	Turbidity	Temp. (deg. C)	Comments
1022	1028	6.2	7.05	1856	LIGHT	19.4	
1033	1038	11.2	7.36	1881	CLEAR	20.0	WELL PURGED DRY
1105	1110	15.2	7.16	1600	CLEAR	19.3	

Methods

(circle methods used)

Discharge disposal: ~~ground~~ (barrel) pond treatment system
Purging: ~~surface pump~~ bailer submersible
Sampling: ~~disp.~~ bailer bailer dedicated pump
Decontamination: (soap/DI) pressure wash dedicated equip.

Calibration

calibrated (yes) no
temp. corrected (yes) no

pH meter: YSI 3500
pH 4 = 4.00
pH 7 = 7.00
pH 10 = 10.00

Cond. meter: YSI 3500
std. 1,000 = 1004
std. 10,000 =

Samples

Sample time: 1200
Lab analyses: TPH-D

Remarks

831 206 4407

Appendix B

CERTIFIED ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION

Diesel with Silica Gel Clean-up

P.G.& E TES

3400 Crow Canyon Road
San Ramon, CA 94583-1393

Attn: Elizabeth Guenther

Phone: (925) 866-5472 Fax: (925) 866-5681

Project #:

Project: Oakland Power Plant

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
QC-1	Water	03/01/2001 10:45	1
MW-1-3	Water	03/01/2001 11:00	2
MW-1-2	Water	03/01/2001 11:30	3
MW-2-3	Water	03/01/2001 12:00	4

To: **P.G.& E TES**
Attn.: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID:	**QC-1**	Lab Sample ID:	**2001-03-0068-001**
Project:	Oakland Power Plant	Received:	03/02/2001 17:48
		Extracted:	03/06/2001 06:36
Sampled:	03/01/2001 10:45	QC-Batch:	2001/03/06-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	03/07/2001 12:08	
Surrogate(s)						
o-Terphenyl	97.0	60-130	%	1.00	03/07/2001 12:08	

To: **P.G.& E TES**
Attn.: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID:	**MW-1-3**	Lab Sample ID:	**2001-03-0068-002**
Project:	Oakland Power Plant	Received:	03/02/2001 17:48
		Extracted:	03/06/2001 06:36
Sampled:	03/01/2001 11:00	QC-Batch:	2001/03/06-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND ✓	50	ug/L	1.00	03/07/2001 12:55	
Surrogate(s)						
o-Terphenyl	89.5	60-130	%	1.00	03/07/2001 12:55	

To: **P.G.& E TES**
Attn.: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID:	**MW-1-2**	Lab Sample ID:	**2001-03-0068-003**
Project:	Oakland Power Plant	Received:	03/02/2001 17:48
		Extracted:	03/06/2001 06:36
Sampled:	03/01/2001 11:30	QC-Batch:	2001/03/06-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	140 ✓	50	ug/L	1.00	03/07/2001 13:42	ndp
Surrogate(s)						
o-Terphenyl	88.8	60-130	%	1.00	03/07/2001 13:42	

To: **P.G.& E TES**
Attn.: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID:	**MW-2-3**	Lab Sample ID:	**2001-03-0068-004**
Project:	Oakland Power Plant	Received:	03/02/2001 17:48
		Extracted:	03/06/2001 06:36
Sampled:	03/01/2001 12:00	QC-Batch:	2001/03/06-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND ✓	50	ug/L	1.00	03/07/2001 14:30	
Surrogate(s)						
o-Terphenyl	94.9	60-130	%	1.00	03/07/2001 14:30	

To: **P.G.& E TES**
Attn.: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Diesel with Silica Gel Clean-up

Method Blank | **Water** | **QC Batch # 2001/03/06-01.10**

MB: 2001/03/06-01.10-001 | Date Extracted: 03/06/2001 06:36

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	03/07/2001 12:47	
Surrogate(s)					
o-Terphenyl	85.0	60-130	%	03/07/2001 12:47	

To: **P.G.& E TES**
Attn: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/03/06-01.10**

LCS: 2001/03/06-01.10-002 Extracted: 03/06/2001 06:36 Analyzed 03/07/2001 13:25
LCSD: 2001/03/06-01.10-003 Extracted: 03/06/2001 06:36 Analyzed 03/07/2001 14:04

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1000	990	1250	1250	80.0	79.2	1.0	60-130	25		
Surrogate(s)											
o-Terphenyl	18.5	17.6	20.0	20.0	92.5	88.0		60-130			

To: **P.G.& E TES**
Attn: Elizabeth Guenther

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Diesel with Silica Gel Clean-up

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Pacific Gas and Electric Company™

Chain of Custody Record

2001-03-0068

57813

62-1174 (Rev 2/99)
Environmental Affairs

From: Pacific Gas & Electric Company ☒ PG&E Facility ☐ Sample Site
Address or Location: 3400 CROW CNYN. RD
City: SAN RAMON, CA (Zip) 94583
Contact Name/Phone No.: ELIZABETH GUENTHER 866-5472

Ship To: Lab Name: STL/CHROMALAB
Address:
City: , CA (Zip)
Phone No.
Contact Name:

Turnaround Time

☒ NORMAL (10 days or less) ☐ RUSH Due Date & Time ☐ OTHER, Specify
☐ TELEPHONE ☒ FAX Give Results to: E. GUENTHER (925)866-5681 (Name, Ph/FAX)

Project Name: OAKLAND POWER PLANT
Project Supervisor (Name/Phone No.): KONRAD CREEK 866-5882
Sampled by: (Signature) (Print Name)

Analysis Requested

Sample No./ ~~Equipment Serial No.~~	Sampled Date	Sampled Time	Sample Type/Description	Containers No.	Containers Size	TPH-D w/SILICA GEL CLEAN UP	Remarks
1. QC-1	3/1	1045	H2O	2	1L	X	REQUEST SILICA GEL CLEANUP FOR TPH-D
2. MW-1-3	↓	1100	↓	2	↓	X	
3. MW-1-2	↓	1130	↓	2	↓	X	
4. MW-2-3	↓	1200	↓	2	↓	X	
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

Relinquished by (Name&Dept.):	Date&Time: 3/1/01 1525	Received by (Name&Dept.):	Date&Time: 3/1/01 1525	Ship Via:
Relinquished by (Name&Dept.):	Date&Time: 3/2/01 9:55AM	Received by (Name&Dept.):	Date&Time:	Bill of Lading/Airbill No.:
Relinquished by (Name&Dept.):	Date&Time: 3.2.01 1748	Received by (Name&Dept.):	Date&Time: 3/2/01 1748	3.1°C

SAP Accounting Data: | Billing Contact: | Billing Address:

Notes:
1. Samples are discarded by the laboratory 90 days after results are reported unless other arrangements are made.
2. File a copy of this Chain of Custody Record, complete with appropriate laboratory signatures, with the test analysis results.
3. The first "Relinquished by/Date" is the shipping date unless otherwise noted.
4. The final PCB results will be the cumulative results added together for each PCB.
5. When this form is computer-generated, send the completed original to the laboratory, and make copies for the originator and sampler.

Distribution (See note #5)
White: Laboratory
Canary: Originator
Pink: Sampler

 November, 1998