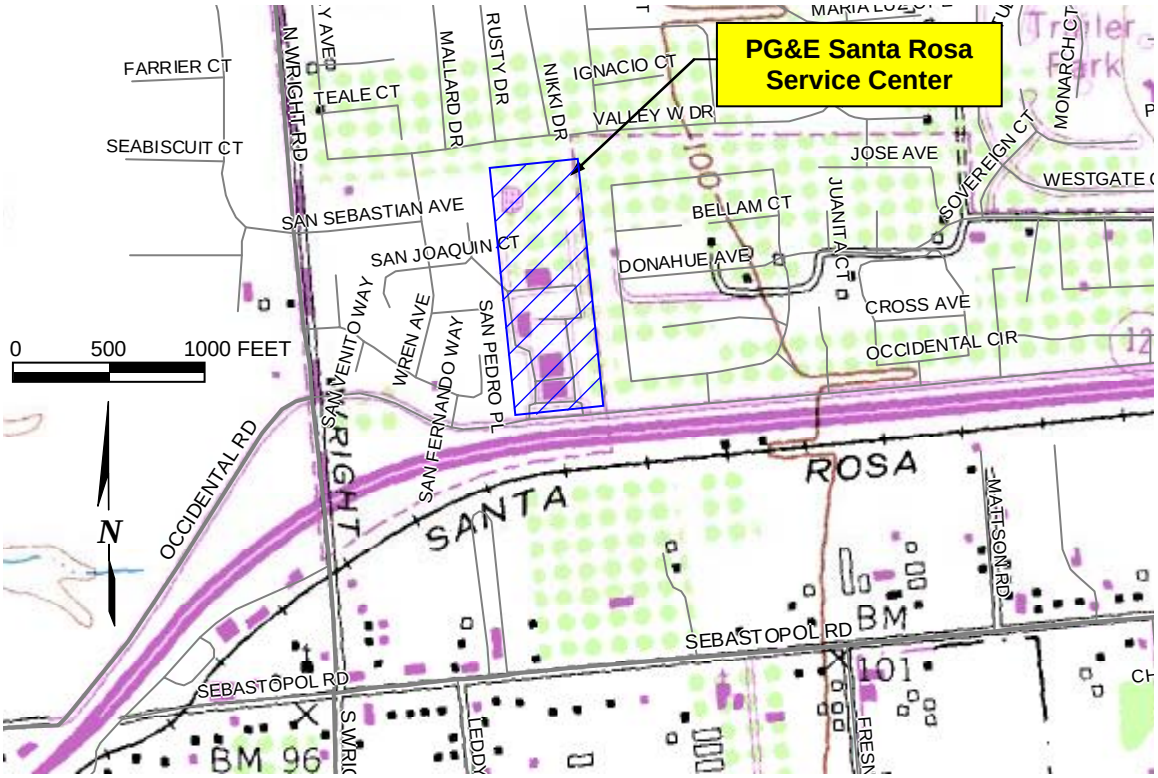
2005 Annual Groundwater Monitoring Report
PG&E Santa Rosa Service Center
3965 Occidental Road, Santa Rosa, California



October 26, 2005

Prepared by
Pacific Gas and Electric Company
Technical and Ecological Services
3400 Crow Canyon Road
San Ramon, CA 94583

TES Report Number 402.331.05.75

© 2004 by Pacific Gas and Electric Company
All Rights Reserved

Pacific Gas and Electric Company

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

925.820.2000

October 26, 2005

Mr. Jim Tischler
Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Subject: *2005 Annual Groundwater Monitoring Report*
PG&E Santa Rosa Service Center, 3965 Occidental Road, Santa Rosa, California

Dear Mr. Tischler:

Attached for your review and comment is our report, *2005 Annual Groundwater Monitoring Report, PG&E Santa Rosa Service Center*, dated October 26, 2005. PG&E Technical and Ecological Services (TES) prepared this report on behalf of PG&E Environmental Affairs.

On May 26 and 27, 2005, PG&E TES performed the 2005 annual groundwater monitoring event. As part of the event, depth to groundwater was measured in piezometers P-1, P-4, and P-7 through P-9; monitoring wells MW-3, MW-5, MW-6, MW-10, MW-11, MW-16, and MW-17; and extraction well EW-15 to evaluate the groundwater flow direction and the hydraulic gradient. Groundwater samples were collected in Area 1 from monitoring wells MW-3 and MW-6; in Area 2 from monitoring wells MW-5 MW-11, and MW-16; and in Area 3 from monitoring well MW-17 and submitted to Severn Trent Laboratories, Inc, in Pleasanton, California for laboratory analysis.

The results of the 2005 annual groundwater monitoring event indicate:

- The groundwater flow direction and hydraulic gradient were variable across the site.

Area 1 - Former Waste Oil UST No. 2 and former Gasoline UST No. 3

- The groundwater flow direction in Area 1 was towards the north with a hydraulic gradient of 0.008.
- MTBE and HVOCs were not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW6.
- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW3. 1,1-dichloroethane, 1,1-dichloroethene, tetrachloroethene, and 1,1,1 trichloroethane were detected in groundwater samples collected from monitoring well MW3 at concentrations of 1.8 μg/L, 7.5 μg/L, 7.0 μg/L, and 2.9 μg/L, respectively.

Area 2 - Former Diesel UST and former Gasoline UST No. 1 & 2

- The groundwater flow direction in Area 2 was radially outward from well MW-16 with a hydraulic gradient ranging between 0.005 and 0.01
- TPHg, TPHd, and MTBE were detected in groundwater samples collected from monitoring well MW5 at concentrations of 53 μg/L, 180 μg/L, and 60 μg/L, respectively.

- TPHd was detected in groundwater samples collected from monitoring well MW11 at concentrations of 53 μg/L.
- Hydraulic Oil was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW16.

Area 3 - Former Waste Oil UST No. 1 & 3

- The groundwater flow direction in Area 3 was towards the northeast with a hydraulic gradient of 0.01.
- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW17. Tetrachloroethene and trichloroethene were detected in groundwater samples collected from monitoring well MW17 at concentrations of 1.7 μg/L and 1.3 μg/L, respectively.

Groundwater monitoring is performed on an annual basis. The 2006 annual monitoring event is scheduled for May 2006.

Please contact me at 925.866.5888 if you have any questions.

Sincerely,

Robert Saur
Environmental Geologist
RAS: ngc
402.331.05.75

cc: John Anderson (Sonoma County Environmental Health Division)

bcc: Betsy Bradford
Fred Flint

Enclosure

Pacific Gas and Electric Company

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

925.820.2000

October 26, 2005

Mr. Jim Tischler
Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Subject: *2005 Annual Groundwater Monitoring Report*
PG&E Santa Rosa Service Center, 3965 Occidental Road, Santa Rosa, California

Dear Mr. Tischler:

Attached for your review and comment is our report, *2005 Annual Groundwater Monitoring Report, PG&E Santa Rosa Service Center*, dated October 26, 2005. PG&E Technical and Ecological Services (TES) prepared this report on behalf of PG&E Environmental Affairs.

On May 26 and 27, 2005, PG&E TES performed the 2005 annual groundwater monitoring event. As part of the event, depth to groundwater was measured in piezometers P-1, P-4, and P-7 through P-9; monitoring wells MW-3, MW-5, MW-6, MW-10, MW-11, MW-16, and MW-17; and extraction well EW-15 to evaluate the groundwater flow direction and the hydraulic gradient. Groundwater samples were collected in Area 1 from monitoring wells MW-3 and MW-6; in Area 2 from monitoring wells MW-5 MW-11, and MW-16; and in Area 3 from monitoring well MW-17 and submitted to Severn Trent Laboratories, Inc, in Pleasanton, California for laboratory analysis.

The results of the 2005 annual groundwater monitoring event indicate:

- The groundwater flow direction and hydraulic gradient were variable across the site.

Area 1 - Former Waste Oil UST No. 2 and former Gasoline UST No. 3

- The groundwater flow direction in Area 1 was towards the north with a hydraulic gradient of 0.008.
- MTBE and HVOCs were not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW6.
- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW3. 1,1-dichloroethane, 1,1-dichloroethene, tetrachloroethene, and 1,1,1 trichloroethane were detected in groundwater samples collected from monitoring well MW3 at concentrations of 1.8 μg/L, 7.5 μg/L, 7.0 μg/L, and 2.9 μg/L, respectively.

Area 2 - Former Diesel UST and former Gasoline UST No. 1 & 2

- The groundwater flow direction in Area 2 was radially outward from well MW-16 with a hydraulic gradient ranging between 0.005 and 0.01
- TPHg, TPHd, and MTBE were detected in groundwater samples collected from monitoring well MW5 at concentrations of 53 μg/L, 180 μg/L, and 60 μg/L, respectively.

- TPHd was detected in groundwater samples collected from monitoring well MW11 at concentrations of 53 μg/L.
- Hydraulic Oil was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW16.

Area 3 - Former Waste Oil UST No. 1 & 3

- The groundwater flow direction in Area 3 was towards the northeast with a hydraulic gradient of 0.01.
- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW17. Tetrachloroethene and trichloroethene were detected in groundwater samples collected from monitoring well MW17 at concentrations of 1.7 μg/L and 1.3 μg/L, respectively.

Groundwater monitoring is performed on an annual basis. The 2006 annual monitoring event is scheduled for May 2006.

Please contact me at 925.866.5888 if you have any questions.

Sincerely,

Robert Saur
Environmental Geologist
RAS: ngc
402.331.05.75

cc: John Anderson (Sonoma County Environmental Health Division)

Enclosure

Prepared by:

Robert Saur
Environmental Geologist

Approved by:

REGISTERED GEOLOGIST
FREDERICK F. FLINT
No.49
CERTIFIED
HYDRO
GEOLOGIST
STATE OF CALIFORNIA

Frederick F. Flint
Certified Hydrogeologist
Environmental Engineering
and Chemical Analysis Unit

CONTENTS

Letter of transmittal

Sections **Page**

1 INTRODUCTION **1**

2 2005 ANNUAL GROUNDWATER MONITORING **4**

3 2005 ANNUAL GROUNDWATER MONITORING RESULTS **5**

4 REFERENCES **6**

Tables

1 Construction Specifications for Piezometers and Wells

2 Groundwater Elevation Data Through Spring 2005

3 Groundwater Monitoring Data Through 2005, Area 1

4 Groundwater Monitoring Data Through 2005, Area 2

5 Groundwater Monitoring Data Through 2005, Area 3

Figures

1 Site location map.

2 Site map.

3 Groundwater elevation contour map, May 26, 2005.

Appendices

A Groundwater Monitoring Protocol

B Groundwater Purging and Sampling Logs

C Laboratory Analytical Reports and Chain-of-Custody Documentation

1 INTRODUCTION

At the request of Pacific Gas and Electric Company (PG&E) Environmental Affairs (EA), PG&E Technical and Ecological Services (TES) performed annual 2005 groundwater monitoring at the PG&E Santa Rosa Service Center. TES performs groundwater monitoring on an annual basis to evaluate the impact to groundwater related to the operation of the underground storage tanks (USTs) at the site. The purpose of the groundwater monitoring is to evaluate the dissolved hydrocarbons in groundwater, the direction of groundwater flow, and the hydraulic gradient.

The site is at 3965 Occidental Road, Santa Rosa, California (Figure 1). The site occupies approximately 14.5 acres and is adjoined on the north, east, and west by residential properties and to the south by Occidental Road and then Highway 12. The site operates as a service center and is used for storing and distributing materials and equipment for the gas and electric operations. The facility has been in operation since 1969.

Figure 2 shows the general layout of the service center, including the locations of office, operations, fleet services/warehouse, and shops and tool storage buildings. Also shown in Figure 2 are the locations of three former waste oil USTs; three former gasoline USTs; a former diesel UST; two active fuel USTs (a 5,000-gallon gasoline UST and a 5,000-gallon diesel UST) and associated fuel dispenser island; and the former and existing piezometers, monitoring wells, and extraction well. The former USTs were located in the northern portion of the service center. That portion of the site is divided into three study areas (Figure 2) determined by former UST locations described below:

- Area 1. Former Waste Oil UST No. 2 and former Gasoline UST No. 3 (monitoring wells MW-3, MW-6, MW-10, and extraction well EW-15).
- Area 2. Former Diesel UST and former Gasoline UST Nos. 1&2 (monitoring wells MW-5, MW-11, and MW-16). Also one active gasoline and one active diesel UST.
- Area 3. Former Waste Oil UST Nos. 1&3 (monitoring well MW-17).

Previous environmental work associated with the site includes (PGE, 2004):

- May 1987. Removal of Waste Oil UST No. 2 (550 gallons) in Area 1, Gasoline UST No. 3 (385 gallons) in Area 1, Diesel UST (1,000 gallons) in Area 2, and Waste Oil UST No. 1 (550 gallons) in Area 3. Approximately 50 cubic yards of soil were excavated from the Diesel UST excavation and approximately 40 cubic yards of soil were excavated from the Waste Oil UST No. 1 excavation.
- September 1987 and December 1987. Installation of piezometers P-1 and P-4 and monitoring wells MW-2 and MW-3.
- December 1987 and June 1988. Excavation of approximately 600 cubic yards of soil north and east of the former diesel UST and destruction of monitoring well MW-2.

- October 1988. Installation of monitoring wells MW-5, MW-6, and MW-10 and piezometers P-7–P-9.
- September 1990. Installation of monitoring well MW-11
- 1990. Installation of off-site monitoring wells MW-12, MW-13, and MW-14 on the property at 2427 Santa Cruz Court.
- January 1992–February 1994. Operation of the groundwater extraction and treatment system in Area 1 near the former Waste Oil UST No. 2. Using extraction well EW-15, approximately 2,600,000 gallons of groundwater were extracted and treated.
- February 1994–September 1999. The groundwater extraction and treatment system was pulsed at four- to six-week intervals; approximately 1,500,000 gallons of groundwater were extracted and treated.
- January 1992–December 1992. Operation of an enhanced biodegradation system in Area 2 near the former diesel UST. The enhance biodegradation system consisted of three injection wells through which hydrogen peroxide, nitrates, and phosphates were injected into the groundwater to promote microbial degradation of petroleum hydrocarbons. Approximately 500 gallons of hydrogen peroxide, 300 gallons of ammonium nitrate, and 300 gallons of ammonium phosphate were injected into the groundwater.
- June 1994 and July 1994. Removal of Waste Oil UST No. 3 from Area 3, including the excavation of approximately 380 cubic yards. In addition, 10,000 gallons of groundwater were extracted from the excavation.
- October 1994 and November 1994. Removal of the 5,000-gallon gasoline USTs No. 1 and No. 2 and a fuel dispenser island from Area 2. The single-walled tanks were later replaced with double-walled tanks. Approximately 2,280 cubic yards of soil were excavated from the area, and approximately 258,000 gallons of groundwater were extracted from the excavation.
- November 1995. Installation of monitoring well MW-16 and MW-17.
- February 2001. Destruction of monitoring wells MW-12 and MW-14.
- July 2001–December 2001. Removal of three underground hydraulic lifts from the Fleet Services Building in Area 3. Approximately 100 cubic yards of soil were excavated from the area, and approximately 4,000 gallons of groundwater were pumped from the excavations of Lifts 1 and 2.
- April 2003. Submittal of a Site Conceptual Model that included a summary of source removal activities, remediation activities, distribution and fate of chemicals, and results of a receptor survey performed by ATC Associates, Inc.
- November 2003. Destruction of monitoring well MW-13.

Currently seven groundwater monitoring wells (MW-3, MW-5, MW-6, MW-10, MW-11, MW-16, and MW-17), five piezometers (P-1, P-4, P-7, P-8, and P-9), and one groundwater extraction well (EW-15) exist on site. Table 1 shows construction specifications of the piezometers, monitoring wells, and extraction well. Groundwater monitoring was initiated in October 1987. In September 1999, the groundwater monitoring program was significantly reduced because of the low frequency of detections of various compounds in many monitoring wells and piezometers. Groundwater monitoring is currently performed annually.

2 2005 ANNUAL GROUNDWATER MONITORING

On May 26 and 27, 2005, TES performed the 2005 annual groundwater monitoring event. Groundwater monitoring included measuring depth to groundwater in piezometers and monitoring wells, and collecting groundwater samples from the monitoring wells for laboratory analysis. Groundwater monitoring was performed in accordance with the Groundwater Monitoring Protocol (Appendix A).

Depth to groundwater measurements were collected from piezometers P-1, P-4, and P-7–P-9; monitoring wells MW-3, MW-5, MW-6, MW-10, MW-11, MW-16, and MW-17; and extraction well EW-15, and were recorded in the groundwater purging and sampling logs (Appendix B). Table 2 summarizes the depth to water measurements and groundwater elevation data. The May 26 and 27, 2005 groundwater elevation measurements were used to construct a groundwater elevation map to determine the direction and magnitude of groundwater flow. Figure 3 shows the groundwater elevation map.

Groundwater samples were collected from monitoring wells MW-3, MW-5, MW-6, MW-11, MW-16, and MW-17 and submitted for analysis to Severn Trent Laboratories, Inc (STL), a California state-certified laboratory, under chain-of-custody protocol. The samples collected from wells MW-3 and MW-6 (Area 1) were analyzed for methyl tertiary butyl ether (MTBE) and halogenated volatile organic compounds (HVOCs) using Environmental Protection Agency (EPA) Method 8260B. The samples collected from wells MW-5 and MW-11 (Area 2) were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015M; and MTBE, tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME) using EPA Method 8260B. The samples collected from wells MW-16 (Area 2) were analyzed for hydraulic oil using EPA Method 8015M. The samples collected from wells MW-17 (Area 3) were analyzed for MTBE and HVOCs using EPA Method 8260B and hydraulic oil using EPA Method 8015M. Appendix C provides the laboratory analysis report and chain-of-custody protocol. Tables 3, 4, and 5 summarize the results of laboratory analyses of groundwater samples collected during the May 26 and 27, 2005 monitoring event in Areas 1, 2, and 3, respectively.

A duplicate sample from monitoring well MW-3 (designated QCAB) was collected and submitted to STL, under chain-of-custody protocol, for analysis of HVOCs and MTBE. The QCAB sample was taken to determine laboratory consistency and accuracy.

The laboratory quality control (QC) program consisted of adhering to holding times and evaluating method blanks and matrix spike/matrix spike duplicates (MS/MSD) results. All analyses were performed within the holding times specified by the EPA. None of the tested analyses were detected in the method blanks and recoveries of MS/MSD were within the laboratory acceptance limits.

Purge water generated during the groundwater monitoring activities was processed through the on-site groundwater extraction and treatment system and discharged to the sanitary sewer for disposal, under City of Santa Rosa Waste Water Discharge Permit number SR-GW4841.

3 2005 ANNUAL GROUNDWATER MONITORING RESULTS

Field measurements collected during the May 26 and 27, 2005 monitoring event indicate that depth to water measurements in piezometers P-1, P-4, and P-7–P-9; monitoring wells MW-3, MW-5, MW-6, MW-10, MW-11, MW-16, and MW-17; and extraction well EW-15 ranged from 5.64 to 7.94 feet below the top of casings. The groundwater flow direction and hydraulic gradient were variable across the site. The groundwater flow direction in Area 1 was towards the north with a hydraulic gradient of 0.008; the groundwater flow direction in Area 2 was radially outward from well MW-16, with a hydraulic gradient ranging between 0.005 and 0.01; and the groundwater flow direction in Area 3 was towards the northeast with a hydraulic gradient of 0.01.

Laboratory analytical results for the groundwater samples collected from the monitoring wells during the May 26 and 27, 2005 monitoring event indicate:

Area 1 (MW-3 and MW-6)

- MTBE has not been detected in groundwater samples collected from monitoring well MW-6 since PG&E began testing for it in 1999. HVOCs have not been detected at or above laboratory reporting limits since 1994 in groundwater samples collected from monitoring well MW-6.
- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW3. 1,1-dichloroethane, 1,1-dichloroethene, tetrachloroethene, and 1,1,1 trichloroethane were detected in groundwater samples collected from monitoring well MW-3 at concentrations of 1.8 μg/L, 7.5 μg/L, 7.0 μg/L, and 2.9 μg/L, respectively.

Area 2 (MW-5, MW-11, and MW-16)

- TPHg, TPHd, and MTBE were detected in groundwater samples collected from monitoring well MW-5 at concentrations of 53 μg/L, 180 μg/L, and 60 μg/L, respectively.
- TPHd was detected in groundwater samples collected from monitoring well MW-11 at concentrations of 53 μg/L.
- Hydraulic Oil was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW-16.

Area 3 (MW-17)

- MTBE was not detected at or above laboratory reporting limits in groundwater samples collected from monitoring well MW-17. Tetrachloroethene and trichloroethene were detected in groundwater samples collected from monitoring well MW-17 at concentrations of 1.7 μg/L and 1.3 μg/L, respectively.

4 REFERENCES

PG&E. September 14, 2004. *Investigation/Remediation Summary and 2004 Annual Groundwater Monitoring Report, PG&E Santa Rosa Service Center, 3965 Occidental Road, Santa Rosa, California.* TES Report Number 402.331.04.51. Technical and Ecological Services. San Ramon, CA.

Tables

Table 1
Construction Details of Monitoring Wells MW1-MW4
PG&E Auburn Service Center

Table 1A. Well Construction Details

Well No.	Initial Borehole Diameter (inches)	Initial Borehole Depth (feet)	Secondary Borehole Diameter (inches)	Secondary Borehole Depth (feet)	Total Depth (feet)	Solid PVC Casing Diameter (inches)	Solid PVC Casing Interval (feet)	Slotted PVC Screen Diameter (inches)	Slotted PVC Screen Interval (feet)	Cement Seal Interval (feet)	Sand Bridge interval (feet)	Sand Filter Pack Interval (feet)	TOC Elevation (feet AMSL)	Drilling Method	Date Installed	Ranges of Ground Water Depths (feet)
MW1	8	12	6	8	20	2	0 to 5	2	5 to 20	0 to 4	4 to 4.5	4.5 to 20	1275.15	HSA/AH	11/21/03	9 to 13
MW2	8	13	6	7.5	20.5	2	0 to 5	2	5 to 20.5	0 to 4	4 to 4.5	4.5 to 20.5	1275.40	HSA/AH	11/21/03	5.5 to 9
MW3	8	13	6	7.5	20.5	2	0 to 5	2	5 to 20.5	0 to 4	4 to 4.5	4.5 to 20.5	1276.69	HSA/AH	11/21/03	5.5 to 11
MW4	8	12	6	8.5	20.5	2	0 to 5	2	5 to 20.5	0 to 4	4 to 4.5	4.5 to 20.5	1274.79	HSA/AH	11/21/03	7.5 to 13

Table 1B. Borehole Volumes

Well No.	Upper Diameter (inches)	Upper Radius (inches)	Upper Radius (feet)	Upper Radius Squared (sq. ft.)	Upper Depth (feet)	Lower Diameter (inches)	Lower Radius (inches)	Lower Radius (feet)	Lower Radius Squared (sq. ft.)	Lower Depth (feet)	Volume of Borehole (gallons)
MW1	8	4.0	0.333	0.111	12	6	3	0.25	0.0625	8	43
MW2	8	4.0	0.333	0.111	13	6	3	0.25	0.0625	7.5	45
MW3	8	4.0	0.333	0.111	13	6	3	0.25	0.0625	7.5	45
MW4	8	4.0	0.333	0.111	12	6	3	0.25	0.0625	8.5	44

Table 1C. Well Pipe Volumes

Well No.	Diameter (inches)	Radius (inches)	Radius (feet)	Radius Squared (sq. ft.)	Total Depth (feet)	Volume of Pipe (gallons)
MW1	2	1	0.083	0.007	12	2.0
MW2	2	1	0.083	0.007	13	2.1
MW3	2	1	0.083	0.007	13	2.1
MW4	2	1	0.083	0.007	12	2.0

CONVERSIONS

1 cubic foot = 7.48 gallons

ABBREVIATIONS

MW = Monitoring well
TOC = Top of casing
AMSL = Above mean sea level
HSA = Hollow stem auger
AH = Air hammer

NOTES

1 TOC casing elevations were established relative to PG&E's survey point, 1281.75 ft, during 1/6/04 survey of the site

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
P-1	10/15/88	100.98	13.87	87.11
P-1	09/11/89	100.98	12.81	88.17
P-1	12/19/89	100.98	11.40	89.58
P-1	04/25/91	100.98	8.73	92.25
P-1	07/29/91	100.98	11.58	89.40
P-1	10/10/91	100.98	13.29	87.69
P-1	01/21/92	100.98	10.70	90.28
P-1	04/16/92	100.98	7.82	93.16
P-1	07/14/92	100.98	11.27	89.71
P-1	11/19/92	100.98	12.18	88.80
P-1	01/26/93	100.98	6.72	94.26
P-1	04/29/93	100.98	8.55	92.43
P-1	07/29/93	100.98	11.26	89.72
P-1	10/27/93	100.98	12.00	88.98
P-1	02/10/94	100.98	8.01	92.97
P-1	05/13/94	100.98	9.28	91.70
P-1	12/20/94	100.98	8.15	92.83
P-1	03/10/95	100.98	6.19	94.79
P-1	06/12/95	100.98	9.52	91.46
P-1	12/06/95	100.98	13.39	87.59
P-1	03/27/96	100.98	7.83	93.15
P-1	06/26/96	100.98	9.68	91.30
P-1	09/12/96	100.98	12.05	88.93
P-1	12/30/96	100.98	6.82	94.16
P-1	03/26/97	100.98	8.68	92.30
P-1	06/19/97	100.98	11.14	89.84
P-1	09/26/97	100.98	12.95	88.03
P-1	12/16/97	100.98	7.22	93.76
P-1	03/19/98	100.98	7.85	93.13
P-1	06/24/98	100.98	--	--
P-1	09/09/98	100.98	11.49	89.49
P-1	12/08/98	100.98	8.50	92.48
P-1	03/23/99	100.98	7.77	93.21
P-1	06/15/99	100.98	10.12	90.86
P-1	09/22/99	100.98	12.66	88.32
P-1	03/21/00	100.98	7.76	93.22
P-1	10/11/00	100.98	12.63	88.35
P-1	04/04/01	100.98	8.98	92.00
P-1	10/15/01	100.98	13.31	87.67
P-1	05/21/02	100.98	9.60	91.38
P-1	10/22/02	100.98	13.30	87.68
P-1	04/15/03	100.98	7.99	92.99
P-1	05/26/04	100.98	10.26	90.72
P-1	05/26/05	100.98	7.83	93.15

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-2	06/01/88	Destroyed on 06/01/88 during excavation at the former Diesel UST area.		
MW-3	10/15/88	100.87	13.45	87.42
MW-3	09/11/89	100.87	12.29	88.58
MW-3	12/19/89	100.87	11.09	89.78
MW-3	04/25/91	100.87	8.51	92.36
MW-3	07/29/91	100.87	11.02	89.85
MW-3	10/10/91	100.87	12.82	88.05
MW-3	01/21/92	100.87	15.77	85.10
MW-3	04/16/92	100.87	11.33	89.54
MW-3	07/14/92	100.87	14.64	86.23
MW-3	11/19/92	100.87	14.78	86.09
MW-3	01/26/93	100.87	10.09	90.78
MW-3	04/29/93	100.87	12.20	88.67
MW-3	04/29/93	100.87	12.20	88.67
MW-3	07/29/93	100.87	14.71	86.16
MW-3	10/27/93	100.87	15.45	85.42
MW-3	02/10/94	100.87	11.35	89.52
MW-3	05/13/94	100.87	11.35	89.52
MW-3	08/19/94	100.87	12.70	88.17
MW-3	12/20/94	100.87	8.08	92.79
MW-3	03/10/95	100.87	5.83	95.04
MW-3	06/12/95	100.87	9.17	91.70
MW-3	12/06/95	100.87	15.99	84.88
MW-3	03/27/96	100.87	7.74	93.13
MW-3	06/26/96	100.87	11.05	89.82
MW-3	09/12/96	100.87	14.79	86.08
MW-3	12/30/96	100.87	10.87	90.00
MW-3	03/26/97	100.87	12.59	88.28
MW-3	06/19/97	100.87	16.49	84.38
MW-3	09/26/97	100.87	12.43	88.44
MW-3	12/16/97	100.87	13.42	87.45
MW-3	03/19/98	100.87	12.67	88.20
MW-3	06/24/98	100.87	9.34	91.53
MW-3	09/09/98	100.87	11.04	89.83
MW-3	12/08/98	100.87	8.21	92.66
MW-3	03/23/99	100.87	8.22	92.65
MW-3	06/15/99	100.87	9.74	91.13
MW-3	09/22/99	100.87	12.21	88.66
MW-3	03/21/00	100.87	7.58	93.29
MW-3	10/11/00	100.87	12.10	88.77
MW-3	04/04/01	100.87	8.75	92.12
MW-3	10/15/01	100.87	12.72	88.15
MW-3	05/21/02	100.87	9.12	91.75
MW-3	10/23/02	100.87	12.75	88.12
MW-3	04/15/03	100.87	7.72	93.15
MW-3	05/26/04	100.87	9.82	91.05
MW-3	05/26/05	100.87	7.64	93.23

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
P-4	10/15/88	100.56	13.16	87.40
P-4	09/11/89	100.56	11.93	88.63
P-4	12/19/89	100.56	10.74	89.82
P-4	04/25/91	100.56	8.27	92.29
P-4	07/29/91	100.56	10.67	89.89
P-4	10/10/91	100.56	12.39	88.17
P-4	01/21/92	100.56	10.74	89.82
P-4	04/16/92	100.56	7.88	92.68
P-4	07/14/92	100.56	11.04	89.52
P-4	11/19/92	100.56	11.58	88.98
P-4	01/26/93	100.56	6.85	93.71
P-4	04/29/93	100.56	8.65	91.91
P-4	07/29/93	100.56	10.97	89.59
P-4	10/27/93	100.56	11.71	88.85
P-4	02/10/94	100.56	7.70	92.86
P-4	05/13/94	100.56	8.74	91.82
P-4	12/20/94	100.56	7.59	92.97
P-4	03/10/95	100.56	5.63	94.93
P-4	06/12/95	100.56	8.84	91.72
P-4	12/06/95	100.56	12.96	87.60
P-4	03/27/96	100.56	7.41	93.15
P-4	06/26/96	100.56	9.18	91.38
P-4	09/12/96	100.56	11.49	89.07
P-4	12/30/96	100.56	6.87	93.69
P-4	03/26/97	100.56	8.55	92.01
P-4	06/19/97	100.56	11.10	89.46
P-4	09/26/97	100.56	12.22	88.34
P-4	12/16/97	100.56	8.14	92.42
P-4	03/19/98	100.56	7.10	93.46
P-4	06/24/98	100.56	--	--
P-4	09/09/98	100.56	10.66	89.90
P-4	12/08/98	100.56	8.89	91.67
P-4	03/23/99	100.56	7.63	92.93
P-4	06/15/99	100.56	9.36	91.20
P-4	09/22/99	100.56	11.86	88.70
P-4	03/21/00	100.56	7.31	93.25
P-4	10/11/00	100.56	11.73	88.83
P-4	04/04/01	100.56	8.41	92.15
P-4	10/15/01	100.56	12.37	88.19
P-4	05/21/02	100.56	8.77	91.79
P-4	10/22/02	100.56	12.36	88.20
P-4	04/15/03	100.56	7.41	93.15
P-4	05/26/04	100.56	9.47	91.09
P-4	05/26/05	100.56	7.37	93.19

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-5	10/15/88	100.23	12.31	87.92
MW-5	09/11/89	100.23	11.47	88.76
MW-5	12/19/89	100.23	10.37	89.86
MW-5	03/23/90	100.23	8.03	92.20
MW-5	06/20/90	100.23	8.22	92.01
MW-5	09/20/90	100.23	11.04	89.19
MW-5	01/16/91	100.23	11.64	88.59
MW-5	04/25/91	100.23	7.32	92.91
MW-5	07/29/91	100.23	10.21	90.02
MW-5	10/10/91	100.23	11.94	88.29
MW-5	01/21/92	100.23	9.91	90.32
MW-5	04/16/92	100.23	6.97	93.26
MW-5	07/14/92	100.23	10.06	90.17
MW-5	11/19/92	100.23	11.18	89.05
MW-5	01/26/93	100.23	5.65	94.58
MW-5	04/29/93	100.23	7.58	92.65
MW-5	07/29/93	100.23	9.89	90.34
MW-5	10/27/93	100.23	11.18	89.05
MW-5	02/10/94	100.23	7.18	93.05
MW-5	05/13/94	100.23	8.35	91.88
MW-5	08/19/94	100.23	12.36	87.87
MW-5	12/20/94	100.23	8.05	92.18
MW-5	03/10/95	100.23	5.19	95.04
MW-5	06/12/95	100.23	8.12	92.11
MW-5	12/06/95	100.23	12.33	87.90
MW-5	03/27/96	100.23	6.53	93.70
MW-5	06/26/96	100.23	8.24	91.99
MW-5	09/12/96	100.23	10.89	89.34
MW-5	12/30/96	100.23	6.72	93.51
MW-5	03/26/97	100.23	7.80	92.43
MW-5	06/19/97	100.23	9.98	90.25
MW-5	09/26/97	100.23	11.78	88.45
MW-5	12/16/97	100.23	7.97	92.26
MW-5	03/19/98	100.23	6.89	93.34
MW-5	06/24/98	100.23	8.67	91.56
MW-5	09/09/98	100.23	10.39	89.84
MW-5	12/08/98	100.23	8.43	91.80
MW-5	03/23/99	100.23	6.65	93.58
MW-5	06/15/99	100.23	9.03	91.20
MW-5	09/22/99	100.23	11.43	88.80
MW-5	03/21/00	100.23	6.50	93.73
MW-5	10/11/00	100.23	11.43	88.80
MW-5	04/04/01	100.23	7.75	92.48
MW-5	10/15/01	100.23	12.08	88.15
MW-5	05/21/02	100.23	8.58	91.65
MW-5	10/23/02	100.23	12.02	88.21
MW-5	04/15/03	100.23	7.20	93.03
MW-5	05/26/04	100.23	9.08	91.15
MW-5	05/26/05	100.23	6.98	93.25

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-6	10/10/91	100.08	12.02	88.06
MW-6	01/16/92	100.08	11.56	88.52
MW-6	04/16/92	100.08	7.53	92.55
MW-6	07/14/92	100.08	10.76	89.32
MW-6	11/19/92	100.08	11.13	88.95
MW-6	01/26/93	100.08	6.03	94.05
MW-6	04/29/93	100.08	8.25	91.83
MW-6	07/29/93	100.08	10.68	89.40
MW-6	10/27/93	100.08	11.54	88.54
MW-6	02/10/94	100.08	7.54	92.54
MW-6	05/13/94	100.08	8.15	91.93
MW-6	08/19/94	100.08	12.75	87.33
MW-6	12/20/94	100.08	7.12	92.96
MW-6	03/10/95	100.08	5.35	94.74
MW-6	06/12/95	100.08	8.44	91.64
MW-6	12/06/95	100.08	12.94	87.14
MW-6	03/27/96	100.08	6.88	93.20
MW-6	06/26/96	100.08	8.57	91.51
MW-6	09/12/96	100.08	10.95	89.13
MW-6	12/30/96	100.08	6.67	93.41
MW-6	03/26/97	100.08	7.74	92.34
MW-6	06/19/97	100.08	10.85	89.23
MW-6	09/26/97	100.08	11.75	88.33
MW-6	12/16/97	100.08	7.85	92.23
MW-6	03/19/98	100.08	7.56	92.52
MW-6	06/24/98	100.08	8.78	91.30
MW-6	09/09/98	100.08	10.32	89.76
MW-6	12/08/98	100.08	7.67	92.41
MW-6	03/23/99	100.08	7.05	93.03
MW-6	06/15/99	100.08	8.97	91.11
MW-6	09/22/99	100.08	11.61	88.47
MW-6	03/21/00	100.08	6.65	93.43
MW-6	10/11/00	100.08	11.44	88.64
MW-6	04/04/01	100.08	7.99	92.09
MW-6	10/15/01	100.08	12.05	88.03
MW-6	05/21/02	100.08	8.59	91.49
MW-6	10/22/02	100.08	12.04	88.04
MW-6	04/15/03	100.08	6.94	93.14
MW-6	05/26/04	100.08	9.14	90.94
MW-6	05/26/05	100.08	6.74	93.34

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
P-7	10/15/88	100.92	13.47	87.45
P-7	09/11/89	100.92	12.29	88.63
P-7	12/19/89	100.92	11.12	89.80
P-7	04/25/91	100.92	8.43	92.49
P-7	07/29/91	100.92	10.94	89.98
P-7	10/10/91	100.92	12.81	88.11
P-7	01/21/92	100.92	10.80	90.12
P-7	04/16/92	100.92	8.21	92.71
P-7	07/14/92	100.92	11.04	89.88
P-7	11/19/92	100.92	11.82	89.10
P-7	01/26/93	100.92	7.00	93.92
P-7	04/29/93	100.92	8.71	92.21
P-7	07/29/93	100.92	10.99	89.93
P-7	10/27/93	100.92	11.90	89.02
P-7	02/10/94	100.92	7.94	92.98
P-7	05/13/94	100.92	9.20	91.72
P-7	12/20/94	100.92	7.43	93.49
P-7	12/29/94	100.92	8.24	92.68
P-7	03/10/95	100.92	6.22	94.70
P-7	06/12/95	100.92	9.08	91.84
P-7	12/06/95	100.92	13.21	87.71
P-7	03/27/96	100.92	7.80	93.12
P-7	06/26/96	100.92	9.18	91.74
P-7	09/12/96	100.92	11.66	89.26
P-7	12/30/96	100.92	7.35	93.57
P-7	03/26/97	100.92	8.63	92.29
P-7	06/19/97	100.92	10.99	89.93
P-7	09/26/97	100.92	12.44	88.48
P-7	12/16/97	100.92	7.62	93.30
P-7	03/19/98	100.92	7.93	92.99
P-7	06/24/98	100.92	9.45	91.47
P-7	09/09/98	100.92	11.06	89.86
P-7	12/08/98	100.92	8.69	92.23
P-7	03/23/99	100.92	7.83	93.09
P-7	06/15/99	100.92	9.13	91.79
P-7	09/22/99	100.92	12.25	88.67
P-7	03/21/00	100.92	7.66	93.26
P-7	10/11/00	100.92	12.15	88.77
P-7	04/04/01	100.92	8.66	92.26
P-7	10/15/01	100.92	12.77	88.15
P-7	05/21/02	100.92	9.28	91.64
P-7	10/22/02	100.92	12.78	88.14
P-7	04/15/03	100.92	7.84	93.08
P-7	05/26/04	100.92	9.77	91.15
P-7	05/26/05	100.92	7.78	93.14

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
P-8	10/15/88	99.94	12.34	87.60
P-8	09/11/89	99.94	11.24	88.70
P-8	12/19/89	99.94	10.11	89.83
P-8	04/25/91	99.94	7.37	92.57
P-8	07/29/91	99.94	10.02	89.92
P-8	10/10/91	99.94	11.85	88.09
P-8	01/21/92	99.94	9.41	90.53
P-8	04/16/92	99.94	6.70	93.24
P-8	07/14/92	99.94	9.78	90.16
P-8	11/19/92	99.94	10.79	89.15
P-8	01/26/93	99.94	5.61	94.33
P-8	04/29/93	99.94	7.36	92.58
P-8	07/29/93	99.94	9.65	90.29
P-8	10/27/93	99.94	10.61	89.33
P-8	02/10/94	99.94	6.66	93.28
P-8	05/13/94	99.94	7.94	92.00
P-8	12/20/94	99.94	6.24	93.70
P-8	12/29/94	99.94	7.06	92.88
P-8	03/10/95	99.94	4.82	95.12
P-8	06/12/95	99.94	9.97	89.97
P-8	12/06/95	99.94	11.85	88.09
P-8	03/27/96	99.94	6.53	93.41
P-8	06/26/96	99.94	8.20	91.74
P-8	09/12/96	99.94	10.57	89.37
P-8	12/30/96	99.94	5.88	94.06
P-8	03/26/97	99.94	7.47	92.47
P-8	06/19/97	99.94	9.60	90.34
P-8	09/26/97	99.94	11.44	88.50
P-8	12/16/97	99.94	7.12	92.82
P-8	03/19/98	99.94	6.58	93.36
P-8	06/24/98	99.94	8.34	91.60
P-8	09/09/98	99.94	9.98	89.96
P-8	12/08/98	99.94	7.61	92.33
P-8	03/23/99	99.94	6.31	93.63
P-8	06/15/99	99.94	8.67	91.27
P-8	09/22/99	99.94	11.14	88.80
P-8	03/21/00	99.94	6.28	93.66
P-8	10/11/00	99.94	11.16	88.78
P-8	04/04/01	99.94	7.54	92.40
P-8	10/15/01	99.94	11.78	88.16
P-8	05/21/02	99.94	8.22	91.72
P-8	10/22/02	99.94	11.70	88.24
P-8	04/15/03	99.94	6.67	93.27
P-8	05/26/04	99.94	8.72	91.22
P-8	05/26/05	99.94	6.56	93.38

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
P-9	12/19/89	101.35	11.03	90.32
P-9	04/25/91	101.35	8.47	92.88
P-9	07/29/91	101.35	10.97	90.38
P-9	10/10/91	101.35	12.71	88.64
P-9	01/21/92	101.35	11.01	90.34
P-9	04/16/92	101.35	8.11	93.24
P-9	07/14/92	101.35	11.31	90.04
P-9	11/19/92	101.35	11.78	89.57
P-9	01/26/93	101.35	6.91	94.44
P-9	04/29/93	101.35	8.82	92.53
P-9	07/29/93	101.35	11.23	90.12
P-9	10/27/93	101.35	12.00	89.35
P-9	02/10/94	101.35	8.03	93.32
P-9	05/13/94	101.35	8.87	92.48
P-9	12/20/94	101.35	7.82	93.53
P-9	03/10/95	101.35	5.83	95.52
P-9	06/12/95	101.35	9.07	92.28
P-9	12/06/95	101.35	13.25	88.10
P-9	03/27/96	101.35	7.59	93.76
P-9	06/26/96	101.35	9.32	92.03
P-9	09/12/96	101.35	11.69	89.66
P-9	12/30/96	101.35	7.04	94.31
P-9	03/26/97	101.35	8.61	92.74
P-9	06/19/97	101.35	11.30	90.05
P-9	09/26/97	101.35	12.40	88.95
P-9	12/16/97	101.35	8.34	93.01
P-9	03/19/98	101.35	7.23	94.12
P-9	06/24/98	101.35	--	--
P-9	09/09/98	101.35	10.94	90.41
P-9	12/08/98	101.35	8.18	93.17
P-9	03/23/99	101.35	7.8	93.55
P-9	06/15/99	101.35	9.63	91.72
P-9	09/22/99	101.35	12.2	89.15
P-9	03/21/00	101.35	7.49	93.86
P-9	10/11/00	101.35	12.05	89.30
P-9	04/04/01	101.35	8.63	92.72
P-9	10/15/01	101.35	12.67	88.68
P-9	05/21/02	101.35	9.09	92.26
P-9	10/22/02	101.35	12.68	88.67
P-9	04/15/03	101.35	7.66	93.69
P-9	05/26/04	101.35	9.72	91.63
P-9	05/26/05	101.35	7.52	93.83

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-10	10/10/91	101.82	10.94	90.88
MW-10	01/16/91	101.82	12.91	88.91
MW-10	04/16/92	101.82	7.70	94.12
MW-10	07/14/92	101.82	11.37	90.45
MW-10	11/19/92	101.82	12.19	89.63
MW-10	01/26/93	101.82	6.66	95.16
MW-10	04/29/93	101.82	8.50	93.32
MW-10	07/29/93	101.82	11.40	90.42
MW-10	10/27/93	101.82	12.12	89.70
MW-10	02/10/94	101.82	7.59	94.23
MW-10	05/13/94	101.82	9.44	92.38
MW-10	08/19/94	101.82	12.80	89.02
MW-10	12/20/94	101.82	8.15	93.67
MW-10	03/10/95	101.82	5.99	95.83
MW-10	06/12/95	101.82	9.63	92.19
MW-10	12/06/95	101.82	13.37	88.45
MW-10	03/27/96	101.82	7.79	94.03
MW-10	06/26/96	101.82	9.88	91.94
MW-10	09/12/96	101.82	12.37	89.45
MW-10	12/30/96	101.82	6.54	95.28
MW-10	03/26/97	101.82	8.66	93.16
MW-10	06/19/97	101.82	11.24	90.58
MW-10	09/26/97	101.82	13.19	88.63
MW-10	12/16/97	101.82	7.64	94.18
MW-10	03/19/98	101.82	7.78	94.04
MW-10	06/24/98	101.82	9.67	92.15
MW-10	09/09/98	101.82	11.70	90.12
MW-10	12/08/98	101.82	8.53	93.29
MW-10	03/23/99	101.82	7.71	94.11
MW-10	06/15/99	101.82	10.26	91.56
MW-10	09/22/99	101.82	12.81	89.01
MW-10	03/21/00	101.82	7.79	94.03
MW-10	10/11/00	101.82	12.78	89.04
MW-10	04/04/01	101.82	9.05	92.77
MW-10	10/15/01	101.82	13.50	88.32
MW-10	05/21/02	101.82	9.67	92.15
MW-10	10/22/02	101.82	13.49	88.33
MW-10	04/15/03	101.82	8.04	93.78
MW-10	05/26/04	101.82	10.45	91.37
MW-10	05/26/05	101.82	7.94	93.88

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-11	09/20/90	100.60	11.23	89.37
MW-11	01/16/91	100.60	11.77	88.83
MW-11	04/25/91	100.60	7.67	92.93
MW-11	07/29/91	100.60	10.41	90.19
MW-11	10/10/91	100.60	12.25	88.35
MW-11	01/21/92	100.60	9.91	90.69
MW-11	04/16/92	100.60	7.05	93.55
MW-11	07/14/92	100.60	10.19	90.41
MW-11	11/19/92	100.60	11.41	89.19
MW-11	01/26/93	100.60	5.80	94.80
MW-11	04/29/93	100.60	7.79	92.81
MW-11	07/29/93	100.60	10.08	90.52
MW-11	10/27/93	100.60	11.23	89.37
MW-11	02/10/94	100.60	7.25	93.35
MW-11	05/13/94	100.60	8.47	92.13
MW-11	08/19/94	100.60	12.42	88.18
MW-11	12/20/94	100.60	8.01	92.59
MW-11	03/10/95	100.60	5.51	95.09
MW-11	06/12/95	100.60	8.05	92.55
MW-11	12/06/95	100.60	12.56	88.04
MW-11	03/27/96	100.60	6.79	93.81
MW-11	06/26/96	100.60	8.67	91.93
MW-11	09/12/96	100.60	11.11	89.49
MW-11	12/30/96	100.60	6.44	94.16
MW-11	03/26/97	100.60	8.09	92.51
MW-11	06/19/97	100.60	10.12	90.48
MW-11	09/26/97	100.60	12.12	88.48
MW-11	12/16/97	100.60	7.66	92.94
MW-11	03/19/98	100.60	--	--
MW-11	06/24/98	100.60	5.44	95.16
MW-11	09/09/98	100.60	10.41	90.19
MW-11	12/08/98	100.60	8.47	92.13
MW-11	03/23/99	100.60	6.13	94.47
MW-11	06/15/99	100.60	9.24	91.36
MW-11	09/22/99	100.60	11.77	88.83
MW-11	03/21/00	100.60	6.51	94.09
MW-11	10/11/00	100.60	11.79	88.81
MW-11	04/04/01	100.60	7.97	92.63
MW-11	10/15/01	100.60	12.47	88.13
MW-11	05/21/02	100.60	8.74	91.86
MW-11	10/23/02	100.60	12.36	88.24
MW-11	04/15/03	100.60	7.02	93.58
MW-11	05/26/04	100.60	9.28	91.32
MW-11	05/26/05	100.60	7.07	93.53

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-12	09/20/90	98.20	9.24	88.96
MW-12	01/16/91	98.20	9.68	88.52
MW-12	04/25/91	98.20	5.57	92.63
MW-12	07/29/91	98.20	8.30	89.90
MW-12	10/10/91	98.20	10.07	88.13
MW-12	01/21/92	98.20	7.89	90.31
MW-12	04/16/92	98.20	5.49	92.71
MW-12	07/14/92	98.20	8.28	89.92
MW-12	11/19/92	98.20	9.07	89.13
MW-12	01/26/93	98.20	4.36	93.84
MW-12	04/29/93	98.20	6.17	92.03
MW-12	07/29/93	98.20	8.34	89.86
MW-12	10/27/93	98.20	9.11	89.09
MW-12	02/10/94	98.20	5.14	93.06
MW-12	05/13/94	98.20	6.34	91.86
MW-12	08/19/94	98.20	10.35	87.85
MW-12	12/20/94	98.20	6.02	92.18
MW-12	03/10/95	98.20	3.58	94.62
MW-12	06/12/95	98.20	6.08	92.12
MW-12	12/06/95	98.20	10.44	87.76
MW-12	03/27/96	98.20	5.38	92.82
MW-12	06/26/96	98.20	6.71	91.49
MW-12	09/12/96	98.20	8.95	89.25
MW-12	12/30/96	98.20	4.27	93.93
MW-12	03/26/97	98.20	6.16	92.04
MW-12	06/19/97	98.20	8.35	89.85
MW-12	09/26/97	98.20	9.98	88.22
MW-12	12/16/97	98.20	5.54	92.66
MW-12	03/19/98	98.20	5.45	92.75
MW-12	06/24/98	98.20	5.48	92.72
MW-12	09/09/98	98.20	8.55	89.65
MW-12	12/08/98	98.20	6.01	92.19
MW-12	03/23/99	98.20	5.29	92.91
MW-12	06/15/99	98.20	7.16	91.04
MW-12	09/22/99	98.20	9.57	88.63
MW-12	03/21/00	98.20	5.31	92.89
MW-12	10/11/00	98.20	9.41	88.79
MW-12	02/26/01	Destroyed on February 26, 2001.		

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-13	09/20/90	100.32	11.27	89.05
MW-13	01/16/91	100.32	11.71	88.61
MW-13	04/25/91	100.32	8.14	92.18
MW-13	07/29/91	100.32	10.58	89.74
MW-13	10/10/91	100.32	12.36	87.96
MW-13	01/21/92	100.32	10.16	90.16
MW-13	04/16/92	100.32	7.60	92.72
MW-13	07/14/92	100.32	10.49	89.83
MW-13	11/19/92	100.32	11.29	89.03
MW-13	01/26/93	100.32	6.41	93.91
MW-13	04/29/93	100.32	8.31	92.01
MW-13	07/29/93	100.32	10.46	89.86
MW-13	10/27/93	100.32	11.27	89.05
MW-13	02/10/94	100.32	7.30	93.02
MW-13	05/13/94	100.32	9.15	91.17
MW-13	08/19/94	100.32	12.51	87.81
MW-13	12/20/94	100.32	7.89	92.43
MW-13	03/10/95	100.32	5.36	94.96
MW-13	06/12/95	100.32	8.64	91.68
MW-13	12/06/95	100.32	12.49	87.83
MW-13	03/27/96	100.32	7.12	93.20
MW-13	06/26/96	100.32	8.70	91.62
MW-13	09/12/96	100.32	11.03	89.29
MW-13	12/30/96	100.32	6.37	93.95
MW-13	03/26/97	100.32	8.16	92.16
MW-13	06/19/97	100.32	10.48	89.84
MW-13	09/26/97	100.32	11.93	88.39
MW-13	12/16/97	100.32	7.83	92.49
MW-13	03/19/98	100.32	7.56	92.76
MW-13	06/24/98	100.32	7.59	92.73
MW-13	09/09/98	100.32	10.53	89.79
MW-13	12/08/98	100.32	7.99	92.33
MW-13	03/23/99	100.32	7.29	93.03
MW-13	06/15/99	100.32	9.24	91.08
MW-13	09/22/99	100.32	11.62	88.70
MW-13	03/21/00	100.32	7.23	93.09
MW-13	10/11/00	100.32	11.56	88.76
MW-13	04/04/01	100.32	8.70	91.62
MW-13	10/15/01	100.32	12.22	88.10
MW-13	05/21/02	100.32	8.67	91.65
MW-13	10/22/02	100.32	12.20	88.12
MW-13	04/15/03	100.32	7.37	92.95
MW-13	11/04/03	Destroyed on November 4, 2003.		

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-14	09/20/90	100.10	10.95	89.15
MW-14	01/16/91	100.10	11.47	88.63
MW-14	04/25/91	100.10	7.74	92.36
MW-14	07/29/91	100.10	10.23	89.87
MW-14	10/10/91	100.10	11.09	89.01
MW-14	01/21/92	100.10	9.78	90.32
MW-14	01/21/92	100.10	9.78	90.32
MW-14	04/16/92	100.10	7.12	92.98
MW-14	04/16/92	100.10	7.12	92.98
MW-14	07/14/92	100.10	10.04	90.06
MW-14	07/14/92	100.10	10.04	90.06
MW-14	11/19/92	100.10	10.99	89.11
MW-14	11/19/92	100.10	10.99	89.11
MW-14	01/26/93	100.10	5.92	94.18
MW-14	04/29/93	100.10	7.87	92.23
MW-14	07/29/93	100.10	10.46	89.64
MW-14	10/27/93	100.10	10.95	89.15
MW-14	02/10/94	100.10	6.96	93.14
MW-14	05/13/94	100.10	8.81	91.29
MW-14	08/19/94	100.10	12.17	87.93
MW-14	12/20/94	100.10	7.55	92.55
MW-14	03/10/95	100.10	4.88	95.22
MW-14	06/12/95	100.10	8.44	91.66
MW-14	12/06/95	100.10	12.32	87.78
MW-14	03/27/96	100.10	7.00	93.10
MW-14	06/26/96	100.10	8.63	91.47
MW-14	09/12/96	100.10	10.89	89.21
MW-14	12/30/96	100.10	6.27	93.83
MW-14	03/26/97	100.10	7.93	92.17
MW-14	06/19/97	100.10	10.19	89.91
MW-14	09/26/97	100.10	11.90	88.20
MW-14	12/16/97	100.10	7.58	92.52
MW-14	03/19/98	100.10	7.00	93.10
MW-14	06/24/98	100.10	7.12	92.98
MW-14	09/09/98	100.10	10.40	89.70
MW-14	12/08/98	100.10	8.08	92.02
MW-14	03/23/99	100.10	6.75	93.35
MW-14	06/15/99	100.10	9.08	91.02
MW-14	09/22/99	100.10	11.44	88.66
MW-14	03/21/00	100.10	6.77	93.33
MW-14	10/11/00	100.10	11.37	88.73
MW-14	02/26/01	Destroyed on February 26, 2001.		

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
EW-15	10/10/91	98.50	10.45	88.05
EW-15	01/21/92	98.50	13.90	84.60
EW-15	07/14/92	98.50	13.30	85.20
EW-15	11/19/92	98.50	14.83	83.67
EW-15	01/26/93	98.50	14.10	84.40
EW-15	04/29/93	98.50	16.28	82.22
EW-15	07/29/93	98.50	18.49	80.01
EW-15	10/27/93	98.50	19.26	79.24
EW-15	02/10/94	98.50	19.01	79.49
EW-15	05/13/94	98.50	18.72	79.78
EW-15	12/20/94	98.50	8.17	90.33
EW-15	03/10/95	98.50	6.37	92.13
EW-15	06/12/95	98.50	7.24	91.26
EW-15	12/06/95	98.50	14.53	83.97
EW-15	03/27/96	98.50	5.75	92.75
EW-15	06/26/96	98.50	18.60	79.90
EW-15	09/12/96	98.50	13.52	84.98
EW-15	12/30/96	98.50	9.41	89.09
EW-15	03/26/97	98.50	12.09	86.41
EW-15	06/19/97	98.50	15.33	83.17
EW-15	09/26/97	98.50	--	--
EW-15	12/16/97	98.50	--	--
EW-15	03/19/98	98.50	11.33	87.17
EW-15	06/24/98	98.50	--	--
EW-15	09/09/98	98.50	--	--
EW-15	12/08/98	98.50	--	--
EW-15	03/23/99	98.50	--	--
EW-15	06/15/99	98.50	--	--
EW-15	09/22/99	98.50	10.23	89.77
EW-15	03/21/00	98.50	7.78	90.72
EW-15	10/11/00	98.50	12.32	86.18
EW-15	04/04/01	98.50	8.90	89.60
EW-15	10/15/01	98.50	10.73	87.77
EW-15	05/21/02	98.50	9.37	89.13
EW-15	10/22/02	98.50	12.94	85.56
EW-15	04/15/03	98.50	7.93	90.57
EW-15	05/26/04	98.50	--	--
EW-15	05/26/05	98.50	5.64	92.86

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-16	12/06/95	100.75	11.92	88.83
MW-16	03/27/96	100.75	6.69	94.06
MW-16	06/26/96	100.75	8.46	92.29
MW-16	09/12/96	100.75	10.90	89.85
MW-16	12/30/96	100.75	6.23	94.52
MW-16	03/26/97	100.75	7.75	93.00
MW-16	06/19/97	100.75	9.92	90.83
MW-16	09/26/97	100.75	11.68	89.07
MW-16	12/16/97	100.75	7.53	93.22
MW-16	03/19/98	100.75	6.68	94.07
MW-16	06/24/98	100.75	8.56	92.19
MW-16	09/09/98	100.75	10.33	90.42
MW-16	12/08/98	100.75	8.06	92.69
MW-16	03/23/99	100.75	6.47	94.28
MW-16	06/15/99	100.75	8.99	91.76
MW-16	09/22/99	100.75	11.41	89.34
MW-16	03/21/00	100.75	6.37	94.38
MW-16	10/11/00	100.75	11.44	89.31
MW-16	04/04/01	100.75	7.79	92.96
MW-16	10/15/01	100.75	--	--
MW-16	05/21/02	100.75	8.54	92.21
MW-16	10/22/02	100.75	12.04	88.71
MW-16	04/15/03	100.75	7.02	93.73
MW-16	05/26/04	100.75	9.11	91.64
MW-16	05/26/05	100.75	6.80	93.95
MW-17	12/06/95	100.96	12.90	88.06
MW-17	03/27/96	100.96	6.69	94.27
MW-17	06/26/96	100.96	9.25	91.71
MW-17	09/12/96	100.96	11.74	89.22
MW-17	12/30/96	100.96	6.37	94.59
MW-17	03/26/97	100.96	8.24	92.72
MW-17	06/19/97	100.96	10.73	90.23
MW-17	09/26/97	100.96	12.54	88.42
MW-17	12/16/97	100.96	7.44	93.52
MW-17	03/19/98	100.96	7.37	93.59
MW-17	06/24/98	100.96	9.12	91.84
MW-17	09/09/98	100.96	11.06	89.90
MW-17	12/08/98	100.96	8.05	92.91
MW-17	03/23/99	100.96	7.29	93.67
MW-17	06/15/99	100.96	9.72	91.24
MW-17	09/22/99	100.96	12.27	88.69
MW-17	03/21/00	100.96	7.30	93.66
MW-17	10/11/00	100.96	12.23	88.73
MW-17	04/04/01	100.96	8.54	92.42
MW-17	10/15/01	100.96	12.91	88.05
MW-17	05/21/02	100.96	9.23	91.73
MW-17	10/22/02	100.96	12.90	88.06
MW-17	04/15/03	100.96	7.55	93.41
MW-17	05/26/04	100.96	9.88	91.08

Table 2
Groundwater Elevation Data Through Spring 2005
PG&E Santa Rosa Service Center

Well ID	Date	TOC Elevation (feet AMSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-17	05/26/05	100.96	7.38	93.58

ABBREVIATIONS AND SYMBOLS

TOC = Top of casing
AMSL = Above Mean Sea Level
-- = Not measured

EW = Extraction Well
MW = Monitoring Well
P = Piezometer

Table 3
Groundwater Monitoring Data Through Spring 2005
Area 1 (Former Waste Oil UST No. 2 and Former Gasoline UST No. 3), Monitoring Wells MW-3 and MW-6
PG&E Santa Rosa Service Center

Sample ID	Sampling Date	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Motor Oil (µg/L)	Total Oil and Grease (µg/L)	Hydraulic Oil (µg/L)	1,1-Di-chloro-ethane (µg/L)	1,2-Di-chloro-ethane (µg/L)	1,1-Di-chloro-ethene (µg/L)	Tetra-chloro-ethene (µg/L)	1,1,1-Tri-chloro-ethane (µg/L)	Tri-chloro-ethene (µg/L)	Chloro-form (µg/L)	Methylene Chloride (µg/L)	Bromo-dichloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	Table Notes
MW-3	10/12/87	---	---	---	---	---	---	---	---	---	---	0.8	<0.5	43.8	0.6	92.5	<0.5	ND	0.6	ND	ND	
MW-3	10/27/87	<50	---	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	03/28/88	<50	---	ND	ND	ND	ND	---	---	---	---	2.5	<0.2	94	1.1	150	<0.2	ND	ND	ND	ND	
MW-3	10/12/88	260	---	ND	ND	ND	ND	---	---	---	---	14	<0.4	120	10	140	0.40	ND	ND	ND	ND	1
MW-3	09/12/89	<50	---	ND	ND	ND	ND	---	---	---	---	33	<0.4	360	<0.4	450	<0.4	ND	ND	ND	ND	
MW-3	12/19/89	---	---	ND	ND	ND	ND	---	---	---	---	20	0.72	300	6.1	410	0.64	0.48	ND	ND	ND	
MW-3	03/23/90	---	---	---	---	---	---	---	---	---	---	21	2.1	300	6.1	384	0.64	0.59	ND	ND	ND	
MW-3	06/20/90	---	---	---	---	---	---	---	---	---	---	24	1.2	430	7.8	380	0.47	<0.4	ND	ND	ND	
MW-3	09/21/90	---	---	---	---	---	---	---	---	---	---	15	<0.4	230	5.5	180	<0.4	<0.4	ND	ND	ND	
MW-3	01/17/91	---	---	---	---	---	---	---	---	---	---	8.6	<0.4	180	3.7	76	<0.4	<0.4	ND	ND	ND	
MW-3	01/23/91	---	---	---	---	---	---	---	---	---	---	2.6	<0.4	34	1.3	11	<0.4	ND	ND	ND	ND	
MW-3	04/26/91	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	31	<0.4	150	5.0	110	1.3	ND	ND	ND	ND	
MW-3	07/30/91	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	17	<0.4	130	5.3	61	<0.4	ND	ND	ND	ND	
MW-3	10/11/91	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	20	<0.4	270	6.8	81	0.56	0.50	ND	ND	ND	
MW-3	01/21/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/23/92	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/16/92	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	9.6	<0.4	61	2.2	19	<0.4	ND	ND	ND	ND	
MW-3	07/14/92	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	ND	ND	ND	ND	
MW-3	11/19/92	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	ND	
MW-3	01/26/93	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	2.4	<0.5	11	<0.5	2.6	<0.5	<0.5	<0.5	ND	ND	
MW-3	04/30/93	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	1.1	<0.5	77	<0.5	3.1	<0.5	<0.5	<0.5	ND	ND	
MW-3	07/29/93	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	2.0	<0.5	25	1.0	4.4	<0.5	<0.5	<0.5	ND	ND	
MW-3	10/27/93	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	2.5	0.7	0.5	<0.5	<0.5	<0.5	ND	ND	
MW-3	02/11/94	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	6.5	<0.5	68	2.2	7.8	<0.5	<0.5	<5	ND	ND	
MW-3	05/13/94	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	11	<0.5	130	5.1	14	0.70	11	<5	ND	ND	
MW-3	08/19/94	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	2.6	0.9	2
MW-3	12/20/94	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	7.2	<0.5	27	4.2	17	<0.5	<0.5	<5	<0.5	<0.5	
MW-3	03/10/95	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	6.9	<0.5	30	3.2	19	<0.5	<0.5	<5	<0.5	<0.5	
MW-3	06/12/95	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	8.0	<0.5	57	3.2	5.4	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-3	12/07/95	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dup	12/07/95	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	03/27/96	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	1.5	<0.5	18	<0.5	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	
Dup	03/27/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	06/26/96	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	
Dup	06/26/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	09/12/96	<50	<51	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5.0	<0.5	<0.5	
Dup	09/12/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	12/31/96	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	1.0	<0.5	15	<0.5	0.7	<0.5	<2.0	<5.0	<0.5	<0.5	
Dup	12/31/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	03/26/97	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	0.8	<0.5	5.8	<0.5	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	
Dup	03/26/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	06/19/97	<50	<51	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
Dup	06/19/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	09/26/97	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
Dup	09/26/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	12/16/97	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
Dup	12/16/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	03/19/98	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	0.5	<0.5	3.0	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
Dup	03/19/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	06/26/98	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	0.5	<0.5	3.4	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
Dup	06/26/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	09/09/98	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	

Table 3
Groundwater Monitoring Data Through Spring 2005
Area 1 (Former Waste Oil UST No. 2 and Former Gasoline UST No. 3), Monitoring Wells MW-3 and MW-6
PG&E Santa Rosa Service Center

Sample ID	Sampling Date	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Motor Oil (µg/L)	Total Oil and Grease (µg/L)	Hydraulic Oil (µg/L)	1,1-Di-chloro-ethane (µg/L)	1,2-Di-chloro-ethane (µg/L)	1,1-Di-chloro-ethene (µg/L)	Tetra-chloro-ethene (µg/L)	1,1,1-Tri-chloro-ethane (µg/L)	Tri-chloro-ethene (µg/L)	Chloro-form (µg/L)	Methylene Chloride (µg/L)	Bromo-dichloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	Table Notes
Dup	09/09/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	12/09/98	<50	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<5.0	<0.50	<0.50	
Dup	12/09/98	<50	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	<0.50	<0.50	2.8	<0.50	0.7	<0.50	<3.0	<5.0	<0.50	<0.50	
MW-3	03/23/99	<50	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<5.0	<0.50	<0.50	
Dup	03/23/99	<50	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	06/15/99	<50	72	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	1.5	<0.50	7.3	2.0	0.60	<0.50	<3.0	<5.0	<0.50	<0.50	3
Dup	06/15/99	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	09/22/99	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.5	<0.50	1.7	0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-3	03/21/00	---	---	---	---	---	---	<5.0	---	---	---	2.5	<0.50	8.4	<0.50	6.10	16	<0.50	<5.0	<0.50	<0.50	4
MW-3	10/12/00	---	---	---	---	---	---	<5.0	---	---	---	0.84	<0.50	3.1	3.30	1.60	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-3	04/05/01	---	---	---	---	---	---	<5.0	---	---	---	2.1	<0.50	8.2	5.30	4.60	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3	10/15/01	---	---	---	---	---	---	0.51	---	---	---	0.92	<0.50	3.7	2.40	1.40	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-3	05/22/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	2.1	<0.50	6.6	6.90	3.30	<0.50	<1.0	<5.0	<0.5	<0.50	
MW-3	10/22/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	2.0	<0.50	8.4	6.2	3.0	<0.50	<1.0	<5.0	<0.5	<0.50	
MW-3	04/16/03	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	1.2	<0.50	4.4	9.5	2.9	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-3	05/27/04	---	---	<1.0	<1.0	<1.0	<1.0	<0.5	---	---	---	2.7	<1.0	12	5.8	2.7	<2.0	<1.0	<1.0	<1.0	<1.0	
QCAB	05/27/04	---	---	<1.0	<1.0	<1.0	<1.0	<0.5	---	---	---	2.7	<1.0	12	5.7	2.7	<2.0	<1.0	<1.0	<1.0	<1.0	
MW-3	05/26/05	---	---	---	---	---	---	<0.50	---	---	---	1.8	<0.50	7.5	7.0	2.9	<0.50	<0.50	<5.0	<0.50	<0.50	
QCAB	05/26/05							<0.50				1.9	<0.50	7.4	6.4	2.7	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-6	09/11/89	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	ND	ND	ND	ND	
MW-6	12/19/89	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	3.1	0.48	<0.4	ND	ND	ND	ND	
MW-6	03/23/90	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	2.6	<0.4	<0.4	ND	ND	ND	ND	
MW-6	06/20/90	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	4.1	<0.4	<0.4	ND	ND	ND	ND	
Dup	06/20/90	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	3.9	<0.4	<0.4	ND	ND	ND	ND	
MW-6	09/21/90	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	0.6	<0.1	3.0	<0.4	ND	ND	ND	ND	
MW-6	01/16/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	0.8	2.8	1.3	<0.4	ND	ND	ND	ND	
Dup	01/16/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	2.3	<0.4	<0.4	ND	ND	ND	ND	
MW-6	01/22/91	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-6	04/26/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	0.9	1.3	0.7	<0.4	ND	ND	ND	ND	
Dup	04/26/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	1.0	1.9	1.2	<0.4	ND	ND	ND	ND	
MW-6	07/30/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	2.1	4.0	<0.4	<0.4	ND	ND	ND	ND	
Dup	07/30/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	2.1	4.3	<0.4	<0.4	ND	ND	ND	ND	
MW-6	10/11/91	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.4	<0.4	7.3	1.9	<0.4	<0.4	ND	ND	ND	ND	
Dup	10/11/91	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	5.4	2.4	0.67	<0.4	ND	ND	ND	ND	
MW-6	01/22/92	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	3.1	3.5	0.84	<0.4	ND	ND	ND	ND	
Dup	01/22/92	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	3.4	3.7	1.1	<0.4	ND	ND	ND	ND	
MW-6	04/16/92	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	ND	ND	ND	ND	
Dup	04/16/92	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	ND	ND	ND	ND	
MW-6	07/14/92	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	1.1	ND	ND	ND	ND	
Dup	07/14/92	---	---	---	---	---	---	---	---	---	---	<0.4	<0.4	<0.4	<0.4	<0.4	1.2	ND	ND	ND	ND	
MW-6	11/19/92	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	ND	
Dup	11/19/92	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	ND	
MW-6	01/26/93	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
Dup	01/26/93	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
MW-6	04/30/93	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
Dup	04/30/93	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
MW-6	07/29/93	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
Dup	07/29/93	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
MW-6	10/27/93	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	ND	ND	
Dup	10/27/93	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	ND	
MW-6	02/11/94	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	

Table 3
Groundwater Monitoring Data Through Spring 2005
Area 1 (Former Waste Oil UST No. 2 and Former Gasoline UST No. 3), Monitoring Wells MW-3 and MW-6
PG&E Santa Rosa Service Center

Sample ID	Sampling Date	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Motor Oil (µg/L)	Total Oil and Grease (µg/L)	Hydraulic Oil (µg/L)	1,1-Di-chloro-ethane (µg/L)	1,2-Di-chloro-ethane (µg/L)	1,1-Di-chloro-ethene (µg/L)	Tetra-chloro-ethene (µg/L)	1,1,1-Tri-chloro-ethane (µg/L)	Tri-chloro-ethene (µg/L)	Chloro-form (µg/L)	Methylene Chloride (µg/L)	Bromo-dichloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	Table Notes
Dup	02/11/94	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	
MW-6	05/13/94	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	0.50	<0.5	<0.5	<0.5	<5	ND	ND	
Dup	05/13/94	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	0.50	<0.5	<0.5	<0.5	<5	ND	ND	
MW-6	08/19/94	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	
Dup	08/19/94	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**83**	<5	**2.9**	<0.5	5
MW-6	12/20/94	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	
Dup	12/20/94	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	
MW-6	03/10/95	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	
Dup	03/10/95	---	---	---	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	
MW-6	06/12/95	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Dup	06/12/95	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-6	12/07/95	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-6	03/27/96	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-6	06/26/96	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	
MW-6	09/12/96	---	<52	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5.0	<0.5	<0.5	
MW-6	12/31/96	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5.0	<0.5	<0.5	
MW-6	03/26/97	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<0.5	<0.5	
MW-6	06/19/97	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	09/26/97	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	12/16/97	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	03/19/98	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	06/26/98	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	09/09/98	---	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	<5.0	<0.5	<0.5	
MW-6	12/09/98	---	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<5.0	<0.50	<0.50	
MW-6	03/24/99	---	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<5.0	<0.50	<0.50	
MW-6	06/15/99	---	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.0	<5.0	<0.50	<0.50	
MW-6	09/22/99	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-6	03/21/00	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-6	10/12/00	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-6	04/04/01	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW-6	10/16/01	---	---	---	---	---	---	<0.50	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-6	05/21/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-6	10/22/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-6	04/16/03	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-6	05/27/04	---	---	<1.0	<1.0	<1.0	<1.0	<0.5	---	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	
MW-6	05/26/05	---	---	---	---	---	---	<0.50	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	

Table 3
Groundwater Monitoring Data Through Spring 2005
Area 1 (Former Waste Oil UST No. 2 and Former Gasoline UST No. 3), Monitoring Wells MW-3 and MW-6
PG&E Santa Rosa Service Center

Sample ID	Sampling Date	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Motor Oil (µg/L)	Total Oil and Grease (µg/L)	Hydraulic Oil (µg/L)	1,1-Di-chloro-ethane (µg/L)	1,2-Di-chloro-ethane (µg/L)	1,1-Di-chloro-ethene (µg/L)	Tetra-chloro-ethene (µg/L)	1,1,1-Tri-chloro-ethane (µg/L)	Tri-chloro-ethene (µg/L)	Chloro-form (µg/L)	Methylene Chloride (µg/L)	Bromo-dichloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	Table Notes

ABBREVIATIONS

MTBE = Methyl tertiary butyl ether
ug/L = Micrograms per liter.
ND = Not detected.
< = Not detected above indicated detection limit.
--- = Not analyzed.
MCL = Maximum Contaminant Level, Title 22, California Code of Regulations, Division 4, Environmental Health Chapter 15, Domestic Water Quality and Monitoring, Article 5.5, Primary Standards - Organic Chemicals, Section 64444, Table 64444-A, September 12, 2003.
NL = Not Listed.

NOTES

Detections are in **bold**.
Silica gel cleanup for Diesel and Motor Oil analyses began in March 2000.

TABLE NOTES

1 The reported concentration of 260 ug/L gasoline for the 10/12/88 MW-3 sample is suspect because gasoline was not detected in any other MW-3 samples.
2 The reported concentrations of 2.6 ug/L bromodichloromethane and 0.9 ug/L dibromodichloromethane for the 08/19/00 MW-3 sample are suspect because these compounds were not detected in any other MW-3 samples.
3 The reported concentration of 72 ug/L diesel for the 06/15/99 MW-3 sample is suspect because diesel was not detected in any other MW-3 samples. It was quantified as as an unknown hydrocarbon in diesel range.
4 The reported concentration of 16 ug/L trichloroethene for the 03/21/00 MW-3 sample is anomalously high relative to other MW-3 samples.
5 The reported concentrations of 83 ug/L chloroform and 2.9 ug/L bromodichloromethane for the 08/19/00 MW-6 Dup sample are suspect because these compounds were not detected in any other MW-6 samples.

Table 4
Groundwater Monitoring Data Through Spring 2005
Area 2 (Former Diesel UST and Former Gasoline UST Nos. 1&2), Monitoring Wells MW-5, MW-11, and MW-16
PG&E Santa Rosa Service Center

Well ID	Date	Gasoline (µg/L)	Diesel (µg/L)	Motor Oil (µg/L)	Hydraulic Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Table Notes
MW-5	10/15/88	---	2900	---	---	<0.5	<0.5	<0.5	0.6	---	---	---	---	---	
MW-5	09/11/89	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	09/12/89	---	1100	---	---	---	---	---	---	---	---	---	---	---	
MW-5	12/19/89	---	600	---	---	---	---	---	---	---	---	---	---	---	
MW-5	03/23/90	---	2300	---	---	---	---	---	---	---	---	---	---	---	
MW-5	06/20/90	---	650	---	---	---	---	---	---	---	---	---	---	---	
MW-5	09/20/90	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	09/21/90	---	1900	---	---	---	---	---	---	---	---	---	---	---	
MW-5	01/16/91	---	2900	---	---	1.0	<0.5	<0.5	1.5	---	---	---	---	---	
MW-5	04/25/91	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	04/26/91	---	2900	---	---	0.8	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	07/29/91	---	2400	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	10/10/91	---	---	---	---	0.9	---	---	---	---	---	---	---	---	
MW-5	10/11/91	---	1100	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	01/21/92	---	2100	---	---	<0.5	<0.5	<0.5	<0.6	---	---	---	---	---	
MW-5	04/16/92	---	1300	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	07/14/92	---	1000	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	11/19/92	---	1200	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	01/26/93	---	270	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	04/30/93	---	360	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	1
MW-5	07/29/93	---	710	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	10/27/93	---	400	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	1
MW-5	02/11/94	---	170	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	1
MW-5	08/19/94	---	880	---	---	0.7	0.7	<0.5	1.2	---	---	---	---	---	1
MW-5	12/20/94	<50	590	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	1
MW-5	03/10/95	<50	600	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	1
MW-5	06/12/95	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	12/07/95	1300	5000	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	2
MW-5	03/27/96	310	---	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	2
MW-5	06/26/96	<50	7900	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	09/12/96	110	---	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	2
MW-5	12/30/96	<50	1400	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	03/26/97	240	2700	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	06/19/97	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	09/26/97	<50	6500	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	12/16/97	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-5	03/19/98	720	1100	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	2, 3
MW-5	06/24/98	120	---	---	---	1.2	0.83	0.71	2.3	---	---	---	---	---	
MW-5	09/09/98	<50	510	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	3

Table 4
Groundwater Monitoring Data Through Spring 2005
Area 2 (Former Diesel UST and Former Gasoline UST Nos. 1&2), Monitoring Wells MW-5, MW-11, and MW-16
PG&E Santa Rosa Service Center

Well ID	Date	Gasoline (µg/L)	Diesel (µg/L)	Motor Oil (µg/L)	Hydraulic Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Table Notes
MW-5	12/09/98	150	2200	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	2, 4
MW-5	03/24/99	110	380	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	2, 4
MW-5	06/15/99	<50	390	---	---	<0.50	<0.50	<0.50	1.3	36	---	---	---	---	4
MW-5	09/22/99	<50	300	---	---	<1.0	<1.0	<1.0	<1.0	21	---	---	---	---	4
MW-5	03/22/00	<50	110	<500	---	<0.50	<0.50	<0.50	<0.50	73	<5.0	<10	<5.0	<5.0	4
MW-5	10/12/00	---	720	<500	---	---	---	---	---	27	<5.0	<10	<5.0	<5.0	4
MW-5	04/05/01	83	400	<500	---	<0.50	<0.50	<0.50	<0.50	29	<5.0	<10	<5.0	<5.0	4, 5
MW-5	10/16/01	<50	1000	<2400	---	<1.0	<1.0	<1.0	<1.0	22	<5.0	<1.0	<1.0	<1.0	4
MW-5	05/22/02	81	320	<500	---	<0.50	<0.50	<0.50	<0.50	43	<5.0	<1.0	<0.50	<0.50	4, 5
MW-5	10/22/02	90	700	<500	---	<0.50	<0.50	<0.50	<0.50	22	<5.0	<1.0	<0.50	<0.50	4, 5
MW-5	04/16/03	74	810	---	---	<0.50	<0.50	<0.50	<0.50	69	<5.0	<1.0	<0.50	<0.50	4, 5
MW-5	05/27/04	<100	<100	---	---	<1.0	<1.0	<1.0	<1.0	54	<30	<1.0	<1.0	<1.0	
MW-5	05/27/05	53	180	---	---	---	---	---	---	60	5.9	<1.0	<0.50	<0.50	
MW-11	09/20/90	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	09/21/90	---	<50	---	---	---	---	---	---	---	---	---	---	---	
MW-11	01/16/91	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	01/17/91	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	04/25/91	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	04/26/91	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	07/29/91	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	07/30/91	---	<50	---	---	---	---	---	---	---	---	---	---	---	
MW-11	10/10/91	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	10/11/91	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	01/21/92	---	<50	---	---	<0.5	<0.5	<0.6	<0.6	---	---	---	---	---	
MW-11	04/16/92	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	07/14/92	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	11/19/92	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	01/26/93	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	04/30/93	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	07/29/93	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	10/27/93	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	02/11/94	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	08/19/94	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	12/20/94	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	03/10/95	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	06/12/95	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-11	12/07/95	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	06/26/96	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	

Table 4
Groundwater Monitoring Data Through Spring 2005
Area 2 (Former Diesel UST and Former Gasoline UST Nos. 1&2), Monitoring Wells MW-5, MW-11, and MW-16
PG&E Santa Rosa Service Center

Well ID	Date	Gasoline (µg/L)	Diesel (µg/L)	Motor Oil (µg/L)	Hydraulic Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Table Notes
MW-11	12/30/96	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	03/26/97	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	09/26/97	---	<54	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	03/19/98	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	09/09/98	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
MW-11	12/08/98	---	**180**	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	4
MW-11	03/24/99	---	<50	---	---	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---	
MW-11	06/15/99	---	**91**	---	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	4
MW-11	09/22/99	<50	<50	---	---	---	---	---	---	<5.0	<5.0	<10	<5.0	<5.0	
MW-11	03/22/00	<50	**94**	<500	---	---	---	---	---	<5.0	<5.0	<10	<5.0	<5.0	4
MW-11	10/12/00	<50	<50	<500	---	---	---	---	---	<5.0	<5.0	<10	<5.0	<5.0	
MW-11	04/04/01	<50	<50	<500	---	---	---	---	---	<5.0	<5.0	<10	<5.0	<5.0	
MW-11	10/16/01	<50	<50	<500	---	---	---	---	---	<0.50	<5.0	<1.0	<1.0	<1.0	
MW-11	05/22/02	<50	<50	<500	---	---	---	---	---	<0.50	<5.0	<1.0	<0.50	<0.50	
MW-11	10/22/02	<50	<50	<500	---	---	---	---	---	<0.50	<5.0	<1.0	<0.50	<0.50	
MW-11	04/16/03	<50	<50	---	---	---	---	---	---	<0.50	<5.0	<1.0	<0.50	<0.50	
MW-11	05/27/04	<100	<100	---	---	---	---	---	---	<1.0	<30	<1.0	<1.0	<1.0	
MW-11	05/27/05	<50	**53**	---	---	---	---	---	---	<0.50	<5.0	<1.0	<0.50	<0.50	
MW-16	05/27/04	---	---	---	<400	---	---	---	---	---	---	---	---	---	
MW-16	05/27/05	---	---	---	<500	---	---	---	---	---	---	---	---	---	

ABBREVIATIONS

MTBE = Methyl Tert Butyl Ether
TBA = Tert Butyl Alcohol
DIPE = Di-isopropyl Ether
ETBE = Ethyl Tert Butyl Ether
TAME = Tert Amyl Methyl Ether
ug/L = micrograms per liter.
--- = Not analyzed.
MCL = Maximum Contaminant Level, Title 22, California Code of Regulations, Division 4, Environmental Health Chapter 15, Domestic Water Quality and Monitoring, Article 5.5, Primary Standards - Organic Chemicals, Section 64444, Table ~~64444~~-A, September 12, 2003.
NL = Not Listed.

TABLE NOTES

1 Unknown hydrocarbon in diesel range quantified as diesel.
2 Unknown hydrocarbon in gasoline range quantified as gasoline.
3 Unknown hydrocarbon has characteristics of weathered/aged diesel.
4 Hydrocarbon reported does not match the pattern of the diesel standard.
5 Hydrocarbon reported does not match the pattern of the gasoline standard.

NOTES

Detections are in **bold**.
Silica gel cleanup for Diesel and Motor Oil analyses began in March 2000.

Table 5
Groundwater Monitoring Data Through Spring 2005
Area 3 (Former Waste Oil UST Nos. 1&3), Monitoring Well MW-17
PG&E Santa Rosa Service Center

Sample ID	Sampling Date	Gasoline (µg/L)	Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Motor Oil (µg/L)	Total Oil and Grease (µg/L)	Hydraulic Oil (µg/L)	1,1-Di-chloro-ethane (µg/L)	1,2-Di-chloro-ethane (µg/L)	1,1-Di-chloro-ethene (µg/L)	Tetra-chloro-ethene (µg/L)	1,1,1-Tri-chloro-ethane (µg/L)	Tri-chloro-ethene (µg/L)	Chloro-form (µg/L)	Methylene Chloride (µg/L)	Bromo-dichloro-methane (µg/L)	Dibromo-chloro-methane (µg/L)	Table Notes
MW-17	12/07/95	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-17	03/27/96	<50	<50	<0.5	**7.4**	<0.5	<0.5	---	---	<1,000	---	<0.5	<0.5	<0.5	<0.5	<0.5	**3.7**	<0.5	<0.5	<0.5	<0.5	1
MW-17	06/26/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	<0.5	<0.5	**2.9**	<0.5	<3.0	<0.5	<0.5	
MW-17	09/12/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<5.0	<0.5	<0.5	
MW-17	12/31/96	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	**0.6**	<0.5	**2.4**	<2.0	<5.0	<0.5	<0.5	
MW-17	03/26/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,100	---	<0.5	<0.5	<0.5	<0.5	<0.5	**2.5**	<0.5	<3.0	<0.5	<0.5	
MW-17	06/19/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	<3.0	<5.0	<0.5	<0.5	
MW-17	09/26/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	<0.5	<0.5	**0.6**	<3.0	<5.0	<0.5	<0.5	
MW-17	12/16/97	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	**2900**	---	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<3.0	<5.0	<0.5	<0.5	2
MW-17	03/19/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	**1.0**	<0.5	**2.9**	<3.0	<5.0	<0.5	<0.5	
MW-17	06/26/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	**0.9**	<0.5	**4.6**	<3.0	<5.0	<0.5	<0.5	
MW-17	09/09/98	<50	---	<0.5	<0.5	<0.5	<0.5	---	<500	<1,000	---	<0.5	<0.5	<0.5	**1.2**	<0.5	**2.2**	<3.0	<5.0	<0.5	<0.5	
MW-17	12/09/98	<50	---	<0.50	<0.50	<0.50	<0.50	---	<500	<1,000	---	<0.50	<0.50	<0.50	<0.50	<0.50	**2.2**	<3.0	<5.0	<0.5	<0.5	
MW-17	03/24/99	<50	<50	<0.50	<0.50	<0.50	<0.50	---	<500	<1,100	---	<0.50	<0.50	<0.50	**1.1**	<0.50	**3.0**	<3.0	<5.0	<0.5	<0.5	
MW-17	06/15/99	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<500	<1000	---	<0.50	<0.50	<0.50	**2.8**	<0.50	**5.0**	<3.0	<5.0	<0.5	<0.5	
MW-17	09/22/99	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	**0.91**	<0.50	**2.2**	<0.50	<5.0	<0.5	<0.5	
MW-17	03/21/00	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	**2.20**	<0.50	**2.9**	<0.50	<5.0	<0.5	<0.5	
MW-17	10/12/00	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.5	<0.5	
MW-17	04/05/01	---	---	---	---	---	---	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	**0.9**	<0.50	<5.0	<0.5	<0.5	
MW-17	10/16/01	---	---	---	---	---	---	<0.50	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-17	05/22/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-17	10/22/02	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	
MW-17	04/16/03	---	---	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	<0.50	<0.50	<0.50	**0.78**	<0.50	**0.86**	<1.0	<5.0	<0.50	<0.50	
MW-17	05/27/04	---	---	<1.0	<1.0	<1.0	<1.0	<0.5	---	---	<400	<1.0	<1.0	<1.0	**1.2**	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	
MW-17	05/26/05	---	---	---	---	---	---	<0.50	---	---	<500	<0.50	<0.50	<0.50	**1.7**	<0.50	**1.3**	<0.50	<5.0	<0.50	<0.50	

ABBREVIATIONS

MTBE = Methyl tertiary butyl ether
ug/L = Micrograms per liter.
ND = Not detected.
< = Not detected above indicated detection limit.
--- = Not analyzed.
MCL = Maximum Contaminant Level, Title 22, California Code of Regulations, Division 4, Environmental Health Chapter 15, Domestic Water Quality and Monitoring, Article 5.5, Primary Standards - Organic Chemicals, Section 64444, Table 64444-A, September 12, 2003.
NL = Not Listed.

TABLE NOTES

1 The reported concentration of 7.4 ug/l toluene for the 03/27/96 sample is suspect because of the absence of detections in all other samples.
2 The reported concentration of 2900 ug/l total oil and grease for the 12/16/97 sample is suspect because of the absence of detections in all other samples.

NOTES

1 Detections are in **bold**.

Figures

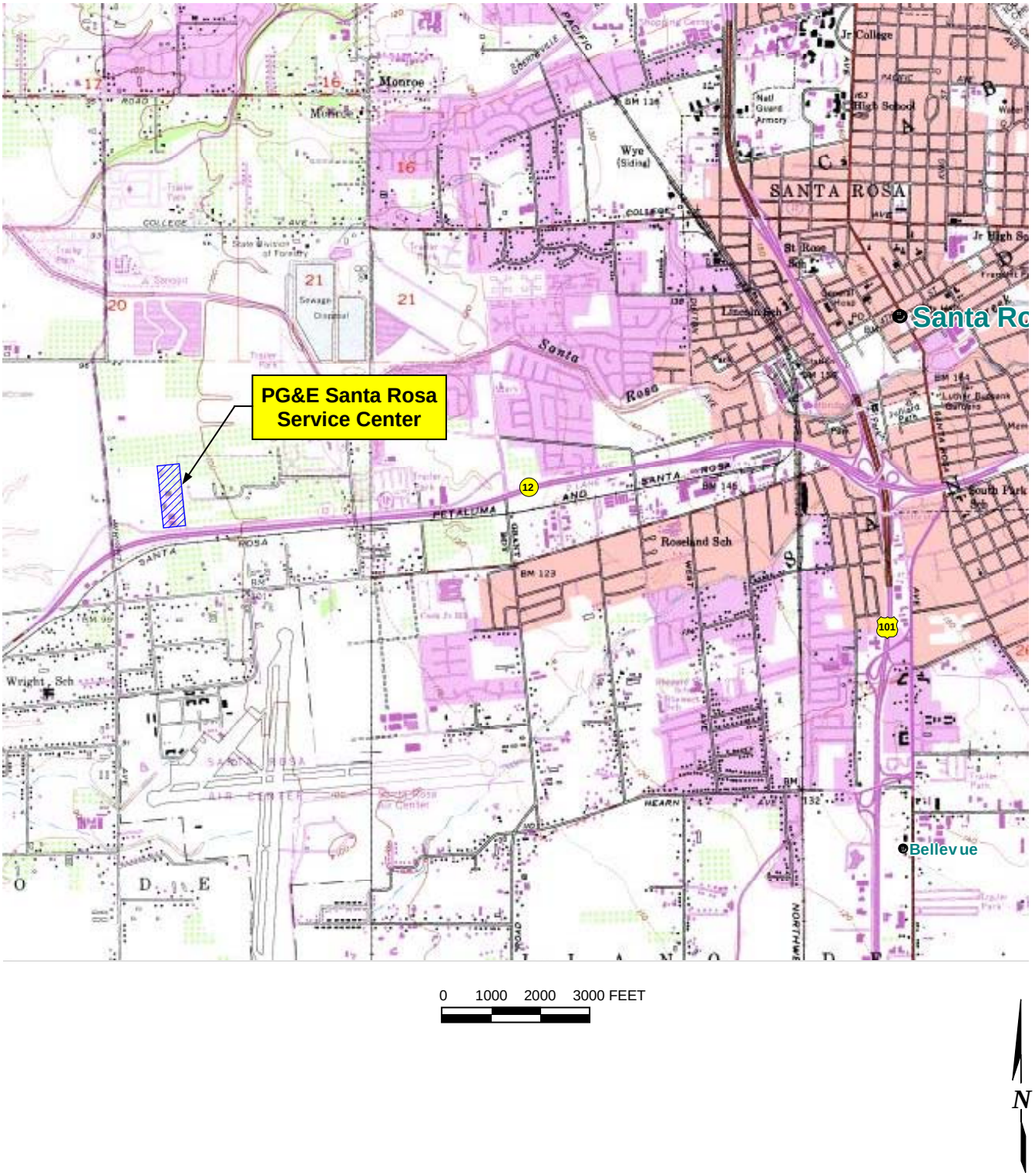


Figure 1. Site location map, PG&E Santa Rosa Service Center, 3965 Occidental Road, Santa Rosa, California

402.331.05.75

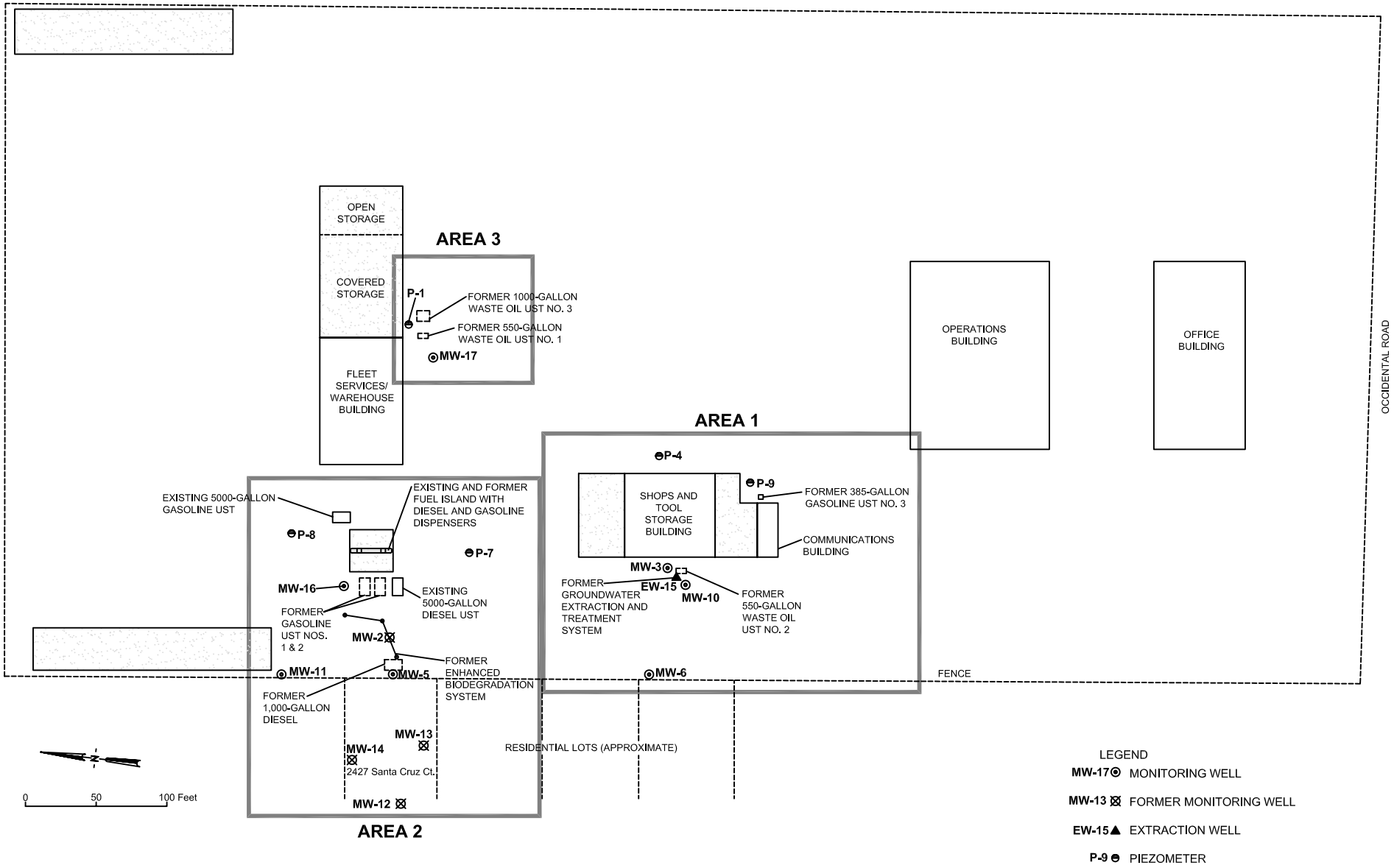


Figure 2. Site map, PG&E Santa Rosa Service Center

402.331.05.75

Basemap: PG&E Drawing 444002 Revision 3
srbase-1.dwg

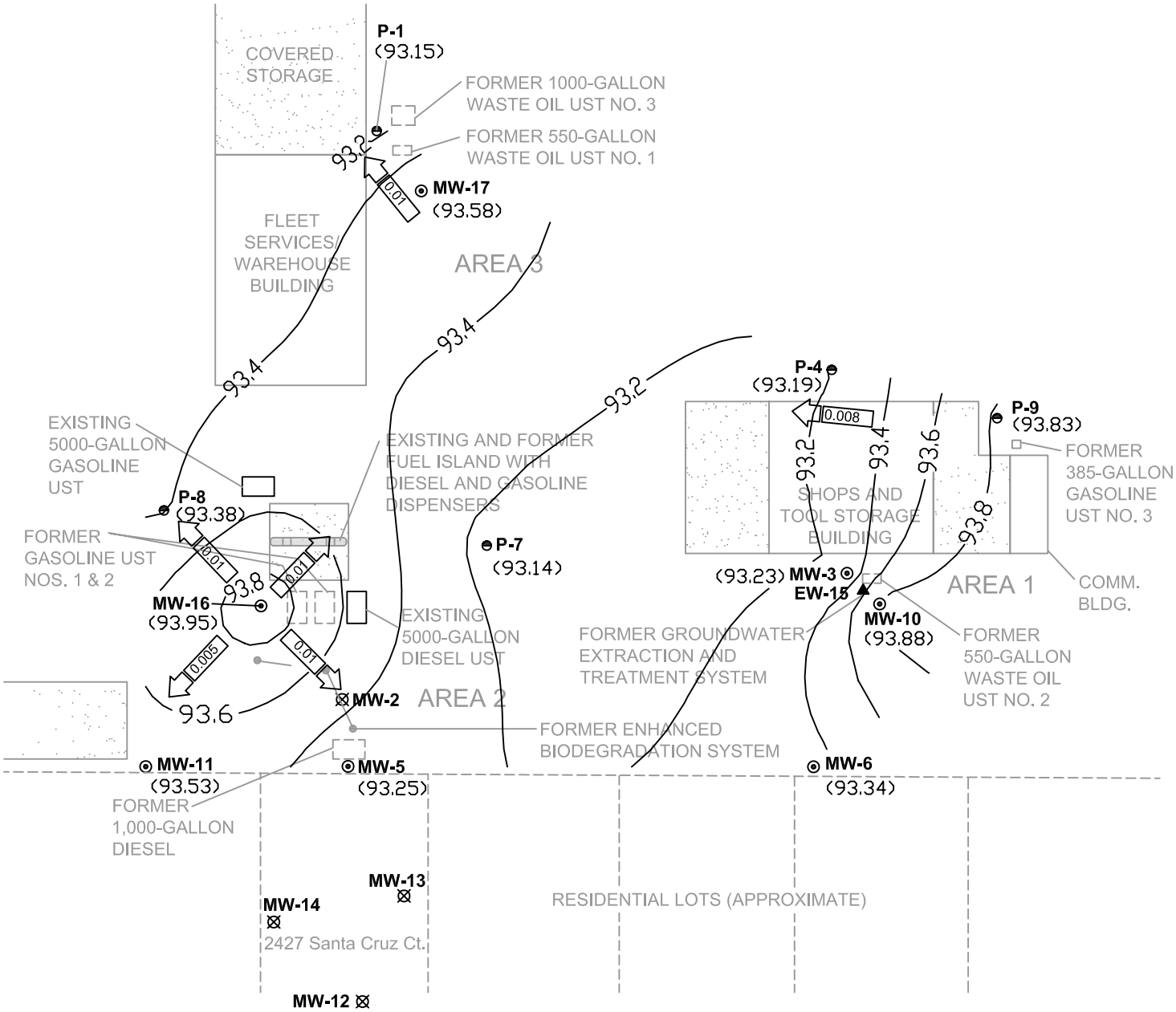


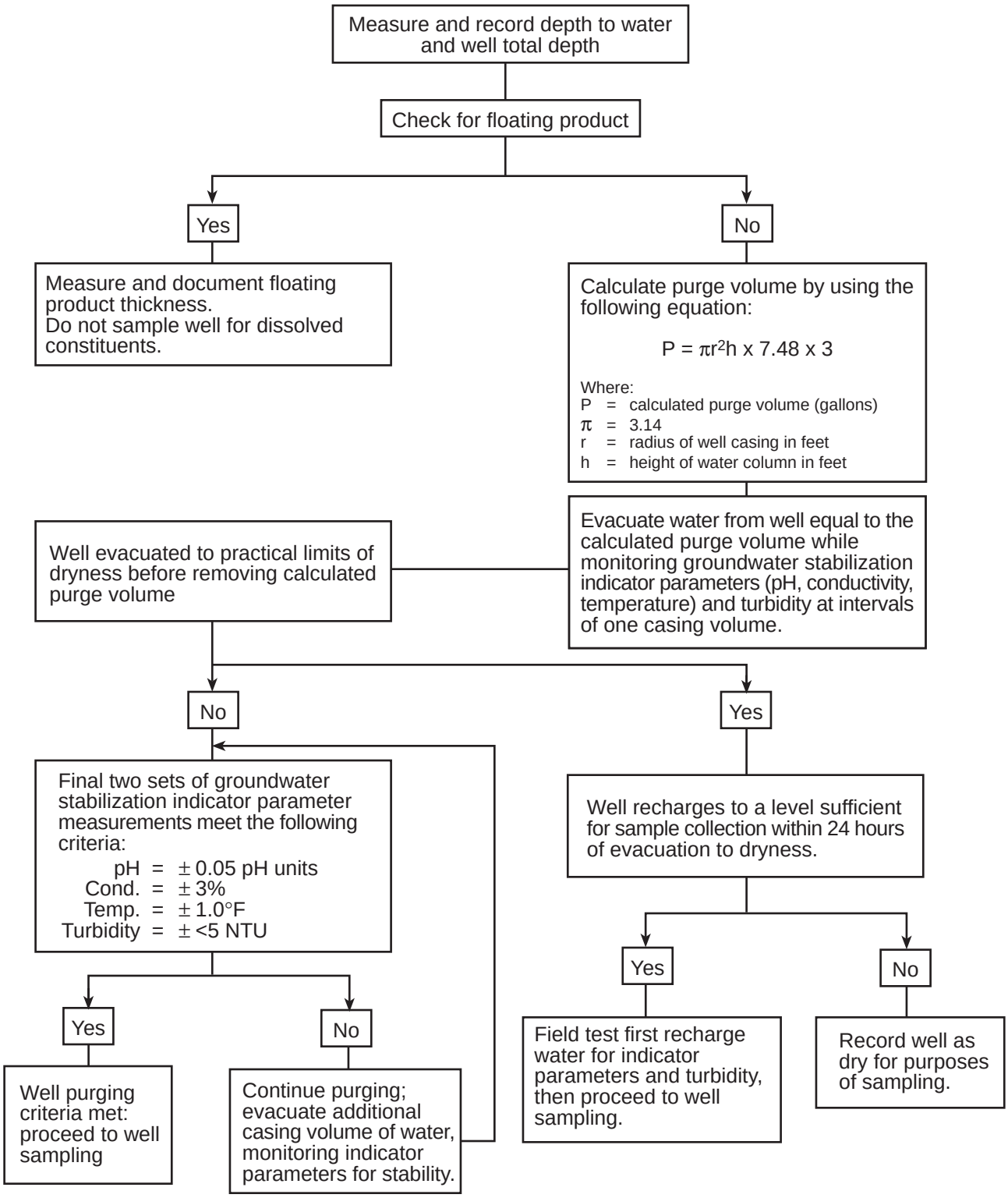
Figure 3. Groundwater elevation contour map - May 26, 2005
PG&E Santa Rosa Service Center

402.331.05.75

Basemap: PG&E Drawing 444002 Revision 3
santa_rosa_GW_5-04

Appendices

Appendix A
Groundwater Monitoring Protocol



Groundwater Monitoring Protocol

Appendix B
Groundwater Purging and Sampling Logs

FIELD REPORT
WATER LEVEL / FLOATING PRODUCT SURVEY
PACIFIC GAS & ELECTRIC COMPANY - TES
5/2005

Site location: Santa Rosa Svc Ctr Survey date: 5/26/05

Sampler: Don Bryant

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
P 9		1150	20.70	7.52					water in well enclosure
P 4		1157	23.08	7.37					" "
P 7		1202	20.37	7.78					water in well enclosure
P 8		1206	20.04	6.56					" "
MW 11		1209	21.46	7.07					
MW 6		1213	19.97	6.74					water in well enclosure
MW 10		1217	39.44	7.94					
EW 15		1221	23.23	5.64					
MW 3		1225	27.22	7.64					water in well enclosure
P 1		1229	17.58	7.83					
MW 16		1234	21.71	6.80					water in well enclosure
MW 5		1237	23.0	6.92					" "
MW 17		1244	21.75	7.38					

Comments: Total depths taken this period.

Don Bryant
Signature

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

Santa Rosa

Site:	Sur Ctr	Job ID:	00529 025	Well ID:	MW 3
Purge date:	5/26/95	Sampler	NB	Weather:	Sunny/hot
Sample date:	5/26/95	Sampler	NB		

Depth measurements and purge volume calculation

Measuring point: TOC @ top edge of casing
Depth of well (DTB) 27.0 ft.
Depth to water (DTW) 7.64 ft.
Total water depth (TD) 19.36 ft.
Measurement method: solinst slope indicator

Hydrocarbon odor yes no
Sheen yes no

TD		casing factor		gal. per vol.		volumes		total purge volume (gal)
19.36	x	0.66	=	12.8	x	3	=	38

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
1420	1424	6.4	6.14	635	low	20.7	clear water
1424	1428	12.8	6.60	606		20.6	
1428	1432	19.2	6.58	594		20.7	
1432	1436	25.6	6.58	579		20.7	
1436	1440	32.0	6.56	574		20.8	
1440	1444	38.4	6.57	565		20.8	

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 556
reads 6.98
pH 4 =
pH 7 = 7.00 @ 24.4°C
pH 10=

Cond. meter YSI 556
std. 1,000 =
std. 10,000 =
std 4.49 reads 4.5: calib to 4.490

Samples

Sample time: 1500
Lab analyses: Halogenated Hydrocarbons, MTBE

Remarks

QCAR - Bottom emptying device used for sampling

Sample log.xls

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

Site: Santa Rosa Svc Ctr
Job ID: 00129 025
Well ID: MW5
Purge date: 5/27/05
Sampler: [illegible]
Weather: cloudy
Sample date: 5/27/05
Sampler: [illegible]

Depth measurements and purge volume calculation

Measuring point: TOC @ top edge of casing
Depth of well (DTB): 23.00 ft.
Depth to water (DTW): 6.98 ft.
Total water depth (TD): 16.02 ft.
Measurement method: solinst slope indicator

Hydrocarbon odor: yes (no)
Sheen: yes (no)

TD	casing factor		gal. per vol.	volumes		total purge volume (gal)
16.02	x 0.17	=	2.7	x 3	=	8.1

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
1100	1102	2.7	6.54	542	low	18.7	slightly dirty water
1102	1104	5.4	6.69	564	↓	19.0	clear water
1104	1106	8.1	6.72	564	↓	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
pH 4 =
pH 7 =
pH 10=

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

see calibration data for [illegible]

Samples

Sample time: 1130
Lab analyses: Gasoline Diesel w/silica Gel cleanup Oxygenates Hydraulic oil

Remarks

Bottom emptying device used when sampling

Sample log.xls

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

Site: Santa Rosa SVC Ctr
Job ID: 00529 023
Well ID: MW 6
Purge date: 5/26/05
Sampler
Weather: Sunny/hot
Sample date: 5/26/05
Sampler

Depth measurements and purge volume calculation

Measuring point: TOC @ mark
Hydrocarbon odor yes no
Depth of well (DTB) 19.7 ft.
Sheen yes no
Depth to water (DTW) 6.74 ft.
Total water depth (TD) 12.96 ft.
Measurement method: solinst slope indicator

TD	casing factor	gal. per vol.	volumes	total purge volume (gal)
12.96 x	0.17	= 2.2 x	3	= 6.6

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
1534	1536	2.2	6.15	1402	low	20.5	slightly dirty water
1536	1538	4.4	6.32	1430	↓	19.8	clear water
1538	1542	6.6	6.30	1412	↓	19.8	" "

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 556
pH 4 =
pH 7 =
pH 10=

Cond. meter YSI 556
std. 1,000 =
std. 10,000 =

See calib data for SW3

Samples

Sample time: 1550
Lab analyses: Halogenated Hydrocarbons, MTBE

Remarks

Bottom emptying device used for sampling

Sample log.xls

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

Site: Santa Rosa Sic Ctr
Job ID: 00524 02
Well ID: MW11
Purge date: 5/26/05
Sampler: AS
Weather: sunny/windy
Sample date: 5/27/05
Sampler: AS

Depth measurements and purge volume calculation

Measuring point: TOC @ top edge of casing
Hydrocarbon odor: yes no
Depth of well (DTB): 21.46 ft.
Sheen: yes no
Depth to water (DTW): 7.07 ft.
Total water depth (TD): 14.39 ft.
Measurement method: ~~sotinst~~ slope indicator

TD	casing factor		gal. per vol.	volumes	total purge volume (gal)
14.39	x 0.17	=	2.4	x 3	= 7.2

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
1737	1739	2.4	6.52	327	low	19.50	clear water
1739	1741	4.8	6.82	360	↓	20.7	↓
1741	1743	7.2	6.91	313	↓	21.1	↓
1743	1745	9.6	6.90	322	↓	20.7	purged to dryness

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
pH 4 =
pH 7 =
pH 10=

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

see calibration data forms

Samples

Sample time: 1015
Lab analyses: ~~TPH~~ Hydrocarbons 8015 Hydrocarbons 8015 Diesel

Remarks

to get clean up, Sample line, Decontaminate equipment used when sampling

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

Site: Santa Rosa Svc Ctr
Job ID: 00529 025
Well ID: MW16
Purge date: 5/27/05
Sampler
Weather: Sunny/partly cloudy
Sample date: 5/27/05
Sampler

Depth measurements and purge volume calculation

Measuring point: TOC @ top edge of casing
Depth of well (DTB) 21.71 ft.
Depth to water (DTW) 6.80 ft.
Total water depth (TD) 14.91 ft.
Measurement method: solinst slope indicator

Hydrocarbon odor yes no
Sheen yes no

TD	casing factor	gal. per vol.	volumes	total purge volume (gal)
14.91 x	0.17	= 2.5 x	3	= 7.5

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
1221	1223	2.5	6.95	886	low	20.5	clear water
1223	1225	5.0	7.14	884	↓	20.5	↓
1225	1227	7.5	7.17	876	↓	20.7	↓

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
pH 4 =
pH 7 =
pH 10=

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

See calibration data for MW 3

Samples

Sample time: 1240
Lab analyses: Hydrocarbon w/silica gel cleanup

Remarks

Bottom emptying device used when sampling

Sample log.xls

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

Site: Santa Rosa Svc Ctr
Job ID: 00524 025
Well ID: MW17
Purge date: 5/26/
Sampler: DB
Weather: sunny/windy
Sample date: 5/26/
Sampler: DB

Depth measurements and purge volume calculation

Measuring point: TOC @ Mark
Depth of well (DTB): 21.75 ft.
Depth to water (DTW): 7.38 ft.
Total water depth (TD): 14.37 ft.
Measurement method: solinst slope indicator

Hydrocarbon odor: yes no
Sheen: yes no

TD		casing factor		gal. per vol.		volumes		total purge volume (gal)
14.37	x	0.17	=	2.4	x	3	=	7.2

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
1638	1640	2.4	6.64	low	693	21.7	clear water
1640	1642	4.8	6.65	↓	703	22.2	↓
1642	1644	7.2	6.65	↓	705	22.3	↓

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
pH 4 =
pH 7 =
pH 10=

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

see calib. data for SW3

Samples

Sample time: 1700
Lab analyses: Halogenated Hydrocarbons, M+SE, Hydraulic oil

Remarks

Bottom emptying device used when sampling

Sample log.xls

Appendix C
Laboratory Analytical Reports and Chain-of-Custody Documentation

SEVERN TRENT STL

Submission#: 2005-05-0773

P.G.& E-TES

June 09, 2005

3400 Crow Canyon Road
San Ramon, CA 94583-1393

Attn.: John Woodruff

Project#: 4600013883
Project: Santa Rosa Service Center

Dear Mr. Woodruff:

Attached is our report for your samples received on 05/27/2005 17:05
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/11/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: ssidhu@stl-inc.com

Sincerely,

Surinder Sidhu

Surinder Sidhu
Project Manager

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW3	05/26/2005 15:00	Water	1
MW6	05/26/2005 15:50	Water	2
MW17	05/26/2005 17:00	Water	3
QCAB	05/26/2005 15:15	Water	7

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW3**	Lab ID:	2005-05-0773 - 1
Sampled:	05/26/2005 15:00	Extracted:	6/1/2005 11:09
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	06/01/2005 11:09	
Vinyl chloride	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Chloroethane	ND	1.0	ug/L	1.00	06/01/2005 11:09	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	06/01/2005 11:09	
1,1-Dichloroethene	7.5	0.50	ug/L	1.00	06/01/2005 11:09	
Methylene chloride	ND	5.0	ug/L	1.00	06/01/2005 11:09	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,1-Dichloroethane	1.8	0.50	ug/L	1.00	06/01/2005 11:09	
Chloroform	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,1,1-Trichloroethane	2.9	0.50	ug/L	1.00	06/01/2005 11:09	
Carbon tetrachloride	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Trichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Bromodichloromethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Tetrachloroethene	7.0	0.50	ug/L	1.00	06/01/2005 11:09	
Dibromochloromethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Chlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Bromoform	ND	2.0	ug/L	1.00	06/01/2005 11:09	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	06/01/2005 11:09	
Chloromethane	ND	1.0	ug/L	1.00	06/01/2005 11:09	
Bromomethane	ND	1.0	ug/L	1.00	06/01/2005 11:09	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW3**	Lab ID:	2005-05-0773 - 1
Sampled:	05/26/2005 15:00	Extracted:	6/1/2005 11:09
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Surrogate(s)						
4-Bromofluorobenzene	92.2	79-118	%	1.00	06/01/2005 11:09	
1,2-Dichloroethane-d4	78.3	78-117	%	1.00	06/01/2005 11:09	
Toluene-d8	91.3	77-121	%	1.00	06/01/2005 11:09	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW6**	Lab ID:	2005-05-0773 - 2
Sampled:	05/26/2005 15:50	Extracted:	6/1/2005 11:42
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	06/01/2005 11:42	
Vinyl chloride	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Chloroethane	ND	1.0	ug/L	1.00	06/01/2005 11:42	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	06/01/2005 11:42	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Methylene chloride	ND	5.0	ug/L	1.00	06/01/2005 11:42	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Chloroform	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Carbon tetrachloride	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Trichloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Bromodichloromethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Tetrachloroethene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Dibromochloromethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Chlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Bromoform	ND	2.0	ug/L	1.00	06/01/2005 11:42	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	06/01/2005 11:42	
Chloromethane	ND	1.0	ug/L	1.00	06/01/2005 11:42	
Bromomethane	ND	1.0	ug/L	1.00	06/01/2005 11:42	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW6**	Lab ID:	2005-05-0773 - 2
Sampled:	05/26/2005 15:50	Extracted:	6/1/2005 11:42
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Surrogate(s)						
4-Bromofluorobenzene	93.0	79-118	%	1.00	06/01/2005 11:42	
1,2-Dichloroethane-d4	84.0	78-117	%	1.00	06/01/2005 11:42	
Toluene-d8	88.1	77-121	%	1.00	06/01/2005 11:42	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW17**	Lab ID:	2005-05-0773 - 3
Sampled:	05/26/2005 17:00	Extracted:	6/1/2005 13:22
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	06/01/2005 13:22	
Vinyl chloride	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Chloroethane	ND	1.0	ug/L	1.00	06/01/2005 13:22	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	06/01/2005 13:22	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Methylene chloride	ND	5.0	ug/L	1.00	06/01/2005 13:22	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Chloroform	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Carbon tetrachloride	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Trichloroethene	1.3	0.50	ug/L	1.00	06/01/2005 13:22	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Bromodichloromethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Tetrachloroethene	1.7	0.50	ug/L	1.00	06/01/2005 13:22	
Dibromochloromethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Chlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Bromoform	ND	2.0	ug/L	1.00	06/01/2005 13:22	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	06/01/2005 13:22	
Chloromethane	ND	1.0	ug/L	1.00	06/01/2005 13:22	
Bromomethane	ND	1.0	ug/L	1.00	06/01/2005 13:22	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW17**	Lab ID:	2005-05-0773 - 3
Sampled:	05/26/2005 17:00	Extracted:	6/1/2005 13:22
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Surrogate(s)						
4-Bromofluorobenzene	91.2	79-118	%	1.00	06/01/2005 13:22	
1,2-Dichloroethane-d4	83.1	78-117	%	1.00	06/01/2005 13:22	
Toluene-d8	90.5	77-121	%	1.00	06/01/2005 13:22	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**QCAB**	Lab ID:	2005-05-0773 - 7
Sampled:	05/26/2005 15:15	Extracted:	6/1/2005 13:55
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	06/01/2005 13:55	
Vinyl chloride	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Chloroethane	ND	1.0	ug/L	1.00	06/01/2005 13:55	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	06/01/2005 13:55	
1,1-Dichloroethene	7.4	0.50	ug/L	1.00	06/01/2005 13:55	
Methylene chloride	ND	5.0	ug/L	1.00	06/01/2005 13:55	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,1-Dichloroethane	1.9	0.50	ug/L	1.00	06/01/2005 13:55	
Chloroform	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,1,1-Trichloroethane	2.7	0.50	ug/L	1.00	06/01/2005 13:55	
Carbon tetrachloride	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Trichloroethene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Bromodichloromethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Tetrachloroethene	6.4	0.50	ug/L	1.00	06/01/2005 13:55	
Dibromochloromethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Chlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Bromoform	ND	2.0	ug/L	1.00	06/01/2005 13:55	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	06/01/2005 13:55	
Chloromethane	ND	1.0	ug/L	1.00	06/01/2005 13:55	
Bromomethane	ND	1.0	ug/L	1.00	06/01/2005 13:55	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**QCAB**	Lab ID:	2005-05-0773 - 7
Sampled:	05/26/2005 15:15	Extracted:	6/1/2005 13:55
Matrix:	Water	QC Batch#:	2005/06/01-1A.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Surrogate(s)						
4-Bromofluorobenzene	93.1	79-118	%	1.00	06/01/2005 13:55	
1,2-Dichloroethane-d4	86.6	78-117	%	1.00	06/01/2005 13:55	
Toluene-d8	88.7	77-121	%	1.00	06/01/2005 13:55	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/06/01-1A.60

MB: 2005/06/01-1A.60-020

Date Extracted: 06/01/2005 10:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	0.5	ug/L	06/01/2005 10:20	
Bromoform	ND	2.0	ug/L	06/01/2005 10:20	
Bromomethane	ND	1.0	ug/L	06/01/2005 10:20	
Carbon tetrachloride	ND	0.5	ug/L	06/01/2005 10:20	
Chlorobenzene	ND	0.5	ug/L	06/01/2005 10:20	
Chloroethane	ND	1.0	ug/L	06/01/2005 10:20	
Chloroform	ND	0.5	ug/L	06/01/2005 10:20	
Chloromethane	ND	1.0	ug/L	06/01/2005 10:20	
Dibromochloromethane	ND	0.5	ug/L	06/01/2005 10:20	
1,2-Dichlorobenzene	ND	0.5	ug/L	06/01/2005 10:20	
1,3-Dichlorobenzene	ND	0.5	ug/L	06/01/2005 10:20	
1,4-Dichlorobenzene	ND	0.5	ug/L	06/01/2005 10:20	
Dichlorodifluoromethane	ND	1.0	ug/L	06/01/2005 10:20	
1,1-Dichloroethane	ND	0.5	ug/L	06/01/2005 10:20	
1,2-Dichloroethane	ND	0.5	ug/L	06/01/2005 10:20	
1,1-Dichloroethene	ND	0.5	ug/L	06/01/2005 10:20	
cis-1,2-Dichloroethene	ND	0.5	ug/L	06/01/2005 10:20	
trans-1,2-Dichloroethene	ND	0.5	ug/L	06/01/2005 10:20	
1,2-Dichloropropane	ND	0.5	ug/L	06/01/2005 10:20	
cis-1,3-Dichloropropene	ND	0.5	ug/L	06/01/2005 10:20	
trans-1,3-Dichloropropene	ND	0.5	ug/L	06/01/2005 10:20	
Methylene chloride	ND	5.0	ug/L	06/01/2005 10:20	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	06/01/2005 10:20	
Tetrachloroethene	ND	0.5	ug/L	06/01/2005 10:20	
1,1,1-Trichloroethane	ND	0.5	ug/L	06/01/2005 10:20	
1,1,2-Trichloroethane	ND	0.5	ug/L	06/01/2005 10:20	
Trichloroethene	ND	0.5	ug/L	06/01/2005 10:20	
Trichlorofluoromethane	ND	1.0	ug/L	06/01/2005 10:20	
Trichlorotrifluoroethane	ND	0.5	ug/L	06/01/2005 10:20	
Vinyl chloride	ND	0.5	ug/L	06/01/2005 10:20	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/06/01-1A.60

MB: 2005/06/01-1A.60-020

Date Extracted: 06/01/2005 10:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Surrogates(s)					
4-Bromofluorobenzene	94.0	79-118	%	06/01/2005 10:20	
1,2-Dichloroethane-d4	88.6	78-117	%	06/01/2005 10:20	
Toluene-d8	88.1	77-121	%	06/01/2005 10:20	

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/06/01-1A.60**

LCS 2005/06/01-1A.60-047 Extracted: 06/01/2005 Analyzed: 06/01/2005 09:47
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	19.8		20	99.0			61-121	20		
1,1-Dichloroethene	17.1		20	85.5			65-125	20		
Trichloroethene	16.6		20	83.0			74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	461		500	92.2			79-118			
1,2-Dichloroethane-d4	394		500	78.8			78-117			
Toluene-d8	444		500	88.8			77-121			

Halogenated Volatile Organic Compounds by 8021B/8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/01-1A.60**

MW3 >> MS

Lab ID: 2005-05-0773 - 001

MS: 2005/06/01-1A.60-015 Extracted: 06/01/2005 Analyzed: 06/01/2005 12:15
Dilution: 1.00

MSD: 2005/06/01-1A.60-049 Extracted: 06/01/2005 Analyzed: 06/01/2005 12:49
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Chlorobenzene	19.8	19.1	ND	20	99.0	95.5	3.6	61-121	20		
1,1-Dichloroethene	23.8	23.1	7.52	20	81.4	77.9	4.4	65-125	20		
Trichloroethene	16.9	17.1	ND	20	84.5	85.5	1.2	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	469	467		500	93.8	93.4		79-118			
1,2-Dichloroethane-d4	399	408		500	79.8	81.6		78-117			
Toluene-d8	436	450		500	87.2	90.0		77-121			

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW11	05/27/2005 10:15	Water	4
MW5	05/27/2005 11:30	Water	5

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030	Test(s):	8015M
Sample ID:	**MW11**	Lab ID:	2005-05-0773 - 4
Sampled:	05/27/2005 10:15	Extracted:	6/2/2005 12:38
Matrix:	Water	QC Batch#:	2005/06/02-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/02/2005 12:38	
Surrogate(s)						
4-Bromofluorobenzene-FID	80.4	50-150	%	1.00	06/02/2005 12:38	

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030	Test(s):	8015M
Sample ID:	**MW5**	Lab ID:	2005-05-0773 - 5
Sampled:	05/27/2005 11:30	Extracted:	6/2/2005 13:04
Matrix:	Water	QC Batch#:	2005/06/02-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	53	50	ug/L	1.00	06/02/2005 13:04	Q6
Surrogate(s)						
4-Bromofluorobenzene-FID	88.8	50-150	%	1.00	06/02/2005 13:04	

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030 | Test(s): 8015M

Method Blank | **Water** | **QC Batch # 2005/06/02-01.05**

MB: 2005/06/02-01.05-003 | Date Extracted: 06/02/2005 07:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/02/2005 07:41	
Surrogates(s)					
4-Bromofluorobenzene-FID	89.6	50-150	%	06/02/2005 07:41	

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/06/02-01.05**

LCS 2005/06/02-01.05-005 Extracted: 06/02/2005 Analyzed: 06/02/2005 08:32
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	231		250	92.4			75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	465		500	93.0			50-150			

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/02-01.05**

MS/MSD

Lab ID: 2005-05-0784 - 002

MS: 2005/06/02-01.05-030 Extracted: 06/02/2005 Analyzed: 06/02/2005 22:17
Dilution: 1.00

MSD: 2005/06/02-01.05-031 Extracted: 06/02/2005 Analyzed: 06/02/2005 22:42
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Gasoline	196	192	ND	250	78.4	76.8	2.1	65-135	20		
Surrogate(s)											
4-Bromofluorobenzene-FID	446	450		500	89.2	89.9		50-150			

Gasoline

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Legend and Notes

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW17	05/26/2005 17:00	Water	3
MW11	05/27/2005 10:15	Water	4
MW5	05/27/2005 11:30	Water	5
MW16	05/27/2005 12:40	Water	6

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW17**	Lab ID:	2005-05-0773 - 3
Sampled:	05/26/2005 17:00	Extracted:	6/7/2005 17:41
Matrix:	Water	QC Batch#:	2005/06/07-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	500	ug/L	1.00	06/08/2005 14:32	
Surrogate(s)						
o-Terphenyl	86.1	60-130	%	1.00	06/08/2005 14:32	

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW11**	Lab ID:	2005-05-0773 - 4
Sampled:	05/27/2005 10:15	Extracted:	6/7/2005 17:41
Matrix:	Water	QC Batch#:	2005/06/07-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	53	50	ug/L	1.00	06/08/2005 18:37	
Surrogate(s)						
o-Terphenyl	84.3	60-130	%	1.00	06/08/2005 18:37	

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW5**	Lab ID:	2005-05-0773 - 5
Sampled:	05/27/2005 11:30	Extracted:	6/7/2005 17:41
Matrix:	Water	QC Batch#:	2005/06/07-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
DRO (C10-C28)	180	50	ug/L	1.00	06/09/2005 13:15	
Surrogate(s)						
o-Terphenyl	92.1	60-130	%	1.00	06/09/2005 13:15	

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW16**	Lab ID:	2005-05-0773 - 6
Sampled:	05/27/2005 12:40	Extracted:	6/7/2005 17:41
Matrix:	Water	QC Batch#:	2005/06/07-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Hydraulic Oil	ND	500	ug/L	1.00	06/08/2005 19:04	
Surrogate(s)						
o-Terphenyl	82.3	60-130	%	1.00	06/08/2005 19:04	

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Method Blank

Water

QC Batch # 2005/06/07-08.10

MB: 2005/06/07-08.10-001

Date Extracted: 06/07/2005 17:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Hydraulic Oil	ND	500	ug/L	06/08/2005 11:18	
DRO (C10-C28)	ND	50	ug/L	06/08/2005 11:18	
Surrogates(s)					
o-Terphenyl	83.2	60-130	%	06/08/2005 11:18	

TEPH w/ Silica Gel Clean-up

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/06/07-08.10**

LCS 2005/06/07-08.10-002 Extracted: 06/07/2005 Analyzed: 06/08/2005 12:42

LCSD 2005/06/07-08.10-003 Extracted: 06/07/2005 Analyzed: 06/08/2005 13:09

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
DRO (C10-C28)	718	842	1000	71.8	84.2	15.9	60-130	25		
Surrogates(s)										
o-Terphenyl	16.6	19.3	20.0	83.1	96.5		60-130	0		

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW3	05/26/2005 15:00	Water	1
MW6	05/26/2005 15:50	Water	2
MW17	05/26/2005 17:00	Water	3
MW11	05/27/2005 10:15	Water	4
MW5	05/27/2005 11:30	Water	5
QCAB	05/26/2005 15:15	Water	7

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW3**	Lab ID:	2005-05-0773 - 1
Sampled:	05/26/2005 15:00	Extracted:	6/3/2005 20:32
Matrix:	Water	QC Batch#:	2005/06/03-01.69
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/03/2005 20:32	
Surrogate(s)						
1,2-Dichloroethane-d4	118.2	73-130	%	1.00	06/03/2005 20:32	
Toluene-d8	108.6	81-114	%	1.00	06/03/2005 20:32	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW6**	Lab ID:	2005-05-0773 - 2
Sampled:	05/26/2005 15:50	Extracted:	6/3/2005 08:13
Matrix:	Water	QC Batch#:	2005/06/03-01.62
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/03/2005 08:13	
Surrogate(s)						
1,2-Dichloroethane-d4	110.8	73-130	%	1.00	06/03/2005 08:13	
Toluene-d8	103.5	81-114	%	1.00	06/03/2005 08:13	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW17**	Lab ID:	2005-05-0773 - 3
Sampled:	05/26/2005 17:00	Extracted:	6/3/2005 08:39
Matrix:	Water	QC Batch#:	2005/06/03-01.62
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/03/2005 08:39	
Surrogate(s)						
1,2-Dichloroethane-d4	107.2	73-130	%	1.00	06/03/2005 08:39	
Toluene-d8	101.5	81-114	%	1.00	06/03/2005 08:39	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW11**	Lab ID:	2005-05-0773 - 4
Sampled:	05/27/2005 10:15	Extracted:	6/3/2005 09:05
Matrix:	Water	QC Batch#:	2005/06/03-01.62
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/03/2005 09:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/03/2005 09:05	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	06/03/2005 09:05	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	06/03/2005 09:05	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	06/03/2005 09:05	
Surrogate(s)						
1,2-Dichloroethane-d4	112.0	73-130	%	1.00	06/03/2005 09:05	
Toluene-d8	102.6	81-114	%	1.00	06/03/2005 09:05	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW5**	Lab ID:	2005-05-0773 - 5
Sampled:	05/27/2005 11:30	Extracted:	6/3/2005 09:31
Matrix:	Water	QC Batch#:	2005/06/03-01.62
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	5.9	5.0	ug/L	1.00	06/03/2005 09:31	
Methyl tert-butyl ether (MTBE)	60	0.50	ug/L	1.00	06/03/2005 09:31	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	06/03/2005 09:31	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	06/03/2005 09:31	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	06/03/2005 09:31	
Surrogate(s)						
1,2-Dichloroethane-d4	116.9	73-130	%	1.00	06/03/2005 09:31	
Toluene-d8	106.4	81-114	%	1.00	06/03/2005 09:31	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**QCAB**	Lab ID:	2005-05-0773 - 7
Sampled:	05/26/2005 15:15	Extracted:	6/2/2005 14:54
Matrix:	Water	QC Batch#:	2005/06/02-01.64
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/02/2005 14:54	
Surrogate(s)						
1,2-Dichloroethane-d4	95.9	73-130	%	1.00	06/02/2005 14:54	
Toluene-d8	101.7	81-114	%	1.00	06/02/2005 14:54	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/06/02-01.64

MB: 2005/06/02-01.64-021

Date Extracted: 06/02/2005 07:21

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/02/2005 07:21	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/02/2005 07:21	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	06/02/2005 07:21	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/02/2005 07:21	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/02/2005 07:21	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	73-130	%	06/02/2005 07:21	
Toluene-d8	88.2	81-114	%	06/02/2005 07:21	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/06/03-01.62

MB: 2005/06/03-01.62-038

Date Extracted: 06/03/2005 07:38

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/03/2005 07:38	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/03/2005 07:38	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	06/03/2005 07:38	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/03/2005 07:38	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/03/2005 07:38	
Surrogates(s)					
1,2-Dichloroethane-d4	111.0	73-130	%	06/03/2005 07:38	
Toluene-d8	104.2	81-114	%	06/03/2005 07:38	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/06/03-01.69

MB: 2005/06/03-01.69-037

Date Extracted: 06/03/2005 13:37

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/03/2005 13:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/03/2005 13:37	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	06/03/2005 13:37	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/03/2005 13:37	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/03/2005 13:37	
Surrogates(s)					
1,2-Dichloroethane-d4	114.6	73-130	%	06/03/2005 13:37	
Toluene-d8	102.7	81-114	%	06/03/2005 13:37	

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/06/02-01.64**

LCS 2005/06/02-01.64-056 Extracted: 06/02/2005 Analyzed: 06/02/2005 06:56
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.4		25.0	93.6			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	418		500	83.6			73-130			
Toluene-d8	433		500	86.6			81-114			

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/06/03-01.62**

LCS 2005/06/03-01.62-011 Extracted: 06/03/2005 Analyzed: 06/03/2005 07:11
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.2		25.0	100.8			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	506		500	101.2			73-130			
Toluene-d8	507		500	101.4			81-114			

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/06/03-01.69**

LCS 2005/06/03-01.69-019 Extracted: 06/03/2005 Analyzed: 06/03/2005 13:19
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.0		25.0	104.0			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	513		500	102.6			73-130			
Toluene-d8	522		500	104.4			81-114			

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/02-01.64**

MS/MSD

Lab ID: 2005-05-0775 - 001

MS: 2005/06/02-01.64-030 Extracted: 06/02/2005 Analyzed: 06/02/2005 08:30
Dilution: 1.00

MSD: 2005/06/02-01.64-054 Extracted: 06/02/2005 Analyzed: 06/02/2005 08:54
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	26.6	26.5	ND	25.0	106.4	106.0	0.4	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	497	481		500	99.4	96.2		73-130			
Toluene-d8	504	479		500	100.8	95.8		81-114			

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/03-01.62**

MS/MSD

Lab ID: 2005-05-0805 - 001

MS: 2005/06/03-01.62-034 Extracted: 06/03/2005 Analyzed: 06/03/2005 12:34
Dilution: 1.00

MSD: 2005/06/03-01.62-020 Extracted: 06/03/2005 Analyzed: 06/03/2005 13:00
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	22.2	22.3	ND	25.0	88.8	89.2	0.4	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	472	465		500	94.4	93.1		73-130			
Toluene-d8	465	475		500	92.9	95.1		81-114			

Fuel Oxygenates by 8260B

P.G.& E-TES

Attn.: John Woodruff

3400 Crow Canyon Road
San Ramon, CA 94583-1393
Phone: (925) 866-5883 Fax: (925) 866-5681

Project: 4600013883
Santa Rosa Service Center

Received: 05/27/2005 17:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/03-01.69**

MS/MSD

Lab ID: 2005-05-0758 - 013

MS: 2005/06/03-01.69-047 Extracted: 06/03/2005 Analyzed: 06/03/2005 14:47
Dilution: 1.00

MSD: 2005/06/03-01.69-005 Extracted: 06/03/2005 Analyzed: 06/03/2005 15:05
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	25.9	26.3	ND	25.0	103.6	105.2	1.5	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	477	479		500	95.4	95.8		73-130			
Toluene-d8	534	539		500	106.7	107.9		81-114			

115452

Chain of Custody Record

Pacific Gas and Electric Company

2005-05-0773

Client: PG&E Technical and Ecological Services (TES)	Project Manager: John Woodruff - PG&E (jxwf@pge.com)		Date:
Address: 3400 Crow Canyon Road	Telephone Number: 925.866.5883	Fax Number: 925.866.5681	Laboratory: STL San Francisco
City: San Ramon; State: CA; Zip Code: 94583	Site Contact: Steve McIntyre		Laboratory Phone: 925.484.1919
Project Number/Name: Santa Rosa Service Center	Sampler:		Laboratory Fax: 925.484.1096
Contract Number, PO Number: 4600013883, PO 3500600811.	Laboratory Contact: Surinder Sidhu (ssidhu@stl-inc.com)		

PG&E Sample I.D.	Lab sample I.D.	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Ice	Halogenated hydrocarbons (8260)	MTBE only (8260)	5 Oxygenates (8260)	Gasoline (8015M)	Diesel, Silica Gel Cleanup (8015M)	Hydraulic oil, Silica Gel Clean (8015M)	HcH
MW3		5/26/05	1500	Water	A					X	X	X					
MW6		↓	1550	↓	A						X	X					
MW17		↓	1700	↓	B						X	X				X	
MW11		5/27/05	1015	↓	B								X	X	X		
MW5		↓	1130	↓	B								X	X	X		
MW16		↓	1240	↓	C											X	
QCAB		5/26/05	1515	↓	D					↓	X	X					

EXPLANATION FOR CONTAINERS
A = 5 VOAs with HCl
B = 5 VOAs with HCl and one 1-liter Amber
C = One 1-liter Amber
D = 2 VOAs with HCl

Special Instructions: 1) Email laboratory reports to John Woodruff (jxwf@pge.com). 2) Provide chromatograms for all Diesel and Motor oil analyses with detectable concentrations. 3) Produce EDD files and email to Eric Kenzler (emk1@pge.com, 925.866.5806), Global ID No. T0609700704.

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☑ Archive for 3 Months

Turn Around Time Required: ☑ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Don Bryant	5/27/05	1705	1. Received By: [signature]	5/27/05	1705
2. Relinquished By:	Date	Time	2. Received By:	Date	Time
3. Relinquished By:	Date	Time	3. Received By:	Date	Time

Comments:

3°C