

Alameda County
NOV 26 2002
Environmental Health

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

**PACIFIC GAS & ELECTRIC
GENERAL CONSTRUCTION YARD
4930 COLISEUM WAY
OAKLAND, CA 94601**

November 20, 2002

CSS Project No. 6118

Prepared for

**PACIFIC GAS & ELECTRIC COMPANY
4930 Coliseum Way
Oakland, California 94601**

Prepared by

C|S|S

**CSS ENVIRONMENTAL SERVICES, INC.
95 Belvedere Street, Suite 2
San Rafael, California 94901**

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San Rafael, California 94901**

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**Aaron N. Stessman, PE REA
Principal Engineer**



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 BACKGROUND	1
2.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES	3
3.0 ANALYTICAL RESULTS	5
3.1 PETROLEUM HYDROCARBONS.....	5
3.2 LEAD.....	6
3.3 VOLATILE ORGANIC COMPOUNDS	7
4.0 GROUNDWATER FLOW DIRECTION	8
5.0 CAP INSPECTION	9
6.0 CONCLUSIONS AND RECOMMENDATIONS.....	10
6.1 CONCLUSIONS.....	10
6.2 RECOMMENDATIONS.....	11

APPENDICES

APPENDIX A Sample Collection Records
 Certified Laboratory Results

APPENDIX B Historical Monitoring Data

1.0 BACKGROUND

This report presents the results of semiannual groundwater monitoring and sampling completed in the fourth quarter of 2002 at the PG&E Distribution and Construction Yard at 4930 Coliseum Way in Oakland, California. A vicinity map is included as Figure 1.1. This report was completed in accordance to the directive issued by the Alameda County Health Care Services Agency (ACHCSA) and a PG&E letter to Alameda County dated April 12, 1993. This report discusses the October 24, 2002 monitoring and sampling event and summarizes the results from groundwater monitoring and sampling performed at the site between January 1990 and the present. The groundwater monitoring program involves the following activities: measuring groundwater elevations; collecting groundwater samples from shallow wells on the site; and performing analyses of the samples to determine the distribution of selected fuel compounds, solvents, and lead in the uppermost water bearing zone, beneath the northern portion of the yard. This area includes the former locations of five underground storage tanks and one above ground storage tank. Figure 1.2 shows the site plan for the subject property.

In January 1988, all of the site's underground storage tanks and associated piping within the PG&E property lines were removed. Analysis of their contents revealed that of the four tanks formerly located in a cluster at the north corner of the yard, two contained mineral spirits and two contained heavy oils. A concrete sump was located approximately 50 feet northeast of the tank cluster, near the location of a former welding shop. A fifth tank was formerly located near the west corner of the yard and contained diesel fuel. A soil sample collected below this tank indicated a concentration for diesel below the detection limit of 10 mg/kg. Following the tank removal, a subsurface investigation showed that soils immediately adjacent to the former diesel tank were not adversely impacted.

A number of soil samples collected near the former tank cluster, sump and shop location were found to contain Total Petroleum Hydrocarbons such as Diesel (TPH-D) at concentrations up to 3,900 mg/kg and Oil and Grease (O&G) at concentrations up to 1,000 mg/kg. These results were reported in the July 1988 report "Underground Tanks Investigation" by PG&E's Technical and Ecological Services Division.

In November and December 1991, approximately 2,000 cubic yards of soil was excavated as a remedial action for the petroleum hydrocarbons identified in the soil. Soil was excavated to the depth of groundwater, approximately 8 to 8 ½ feet below ground surface at the time, and replaced with clean, compacted backfill. The backfill below approximately 7 feet consisted of drain rock while backfill above 7 feet consisted of Class II aggregate base. The northwest and northeast excavation boundaries reached the approximate PG&E property lines. During the remedial excavation, confirmatory samples were taken along the sidewalls and bottom of the excavation to confirm that all the contaminated soil with concentrations above the regulatory agency approved cleanup target levels was removed. The cleanup targets for gasoline (TPH-G) and diesel (TPH-D) were 10 mg/kg and 100 mg/kg, respectively. The cleanup target for O&G was 1,000 mg/kg, and for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) compounds was 5 µg/kg (total BTEX). This work was described in an EARTH TECHNOLOGY CORPORATION (formerly Aqua Resources, Inc.) document "Site Remediation and Closure Report ... Former Tank Cluster Area" dated February 1992.

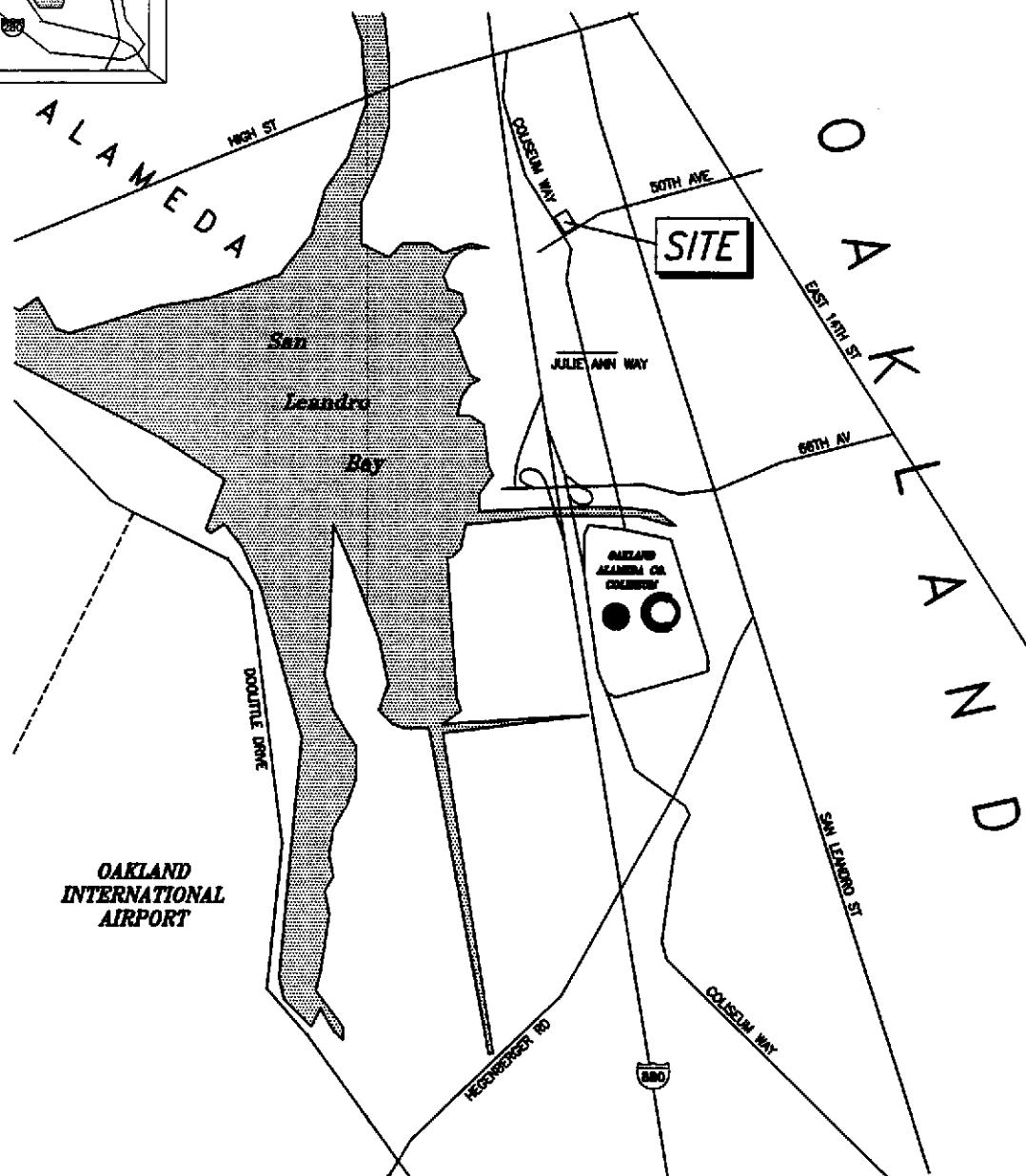
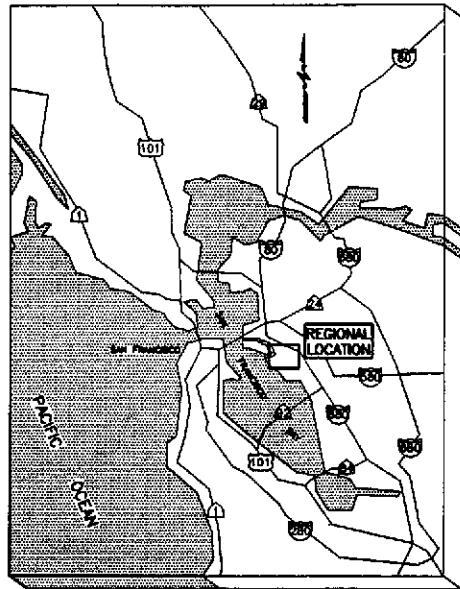
The samples collected along the PG&E property lines were above cleanup target levels, while each of the remaining confirmatory samples was below the cleanup target levels. The samples collected along the northeastern property line were above cleanup targets primarily due to TPH-D and O&G concentrations. The soils in this excavation wall contained visible tar and heavy oil, and also two pipes containing a similar petroleum product. Analytical testing of the product found in the pipes indicated TPH-D at 7,000 mg/kg and did not indicate VOCs above the method detection limit. The samples on the northwestern property line were above cleanup target levels for one or more of TPH-G, TPH-D, O&G, and BTEX.

The conclusions of the February 1992 closure report suggested that offsite sources of petroleum hydrocarbons may exist in both the northeast and northwest directions, and requested regulatory agency input in initiating an investigation of these potential sources. Quarterly groundwater monitoring and sampling for a period of one year was recommended in the 1992 report for wells OW-1, OW-4, OW-6 and OW-7.

In September and October of 1992, a containment mitigation cap was constructed over the surface soils in an area south of the hydrocarbon remediation area. These soils are contaminated with lead, believed to originate from lead-containing paint chips generated from sandblasting of a large above-ground natural gas storage tank. The tank was removed in May 1990, and the soils were found contaminated with total and soluble lead above California Code of Regulations (CCR) levels for hazardous wastes. CCR Total Threshold Limit Concentration (TTLC) for lead is 1,000 mg/kg and the Soluble Threshold Limit Concentration (STLC) is 5 mg/L, equivalent to parts per million (ppm). The ACHCSA and the Regional Water Quality Control Board (RWQCB) approved capping with asphaltic concrete as the selected remedial option for this area. As part of the remedial option the County agreed upon continued groundwater monitoring and sampling for lead. Following containment capping, the remaining open ground at the site was covered with asphalt concrete.

In February 1993, well OW-8 was installed in the southern area of the yard in the vicinity of the former above-ground storage tank (AST). A maximum lead concentration of 27 µg/L (April 1993) was reported in samples collected from OW-8, which was below the state Maximum Contaminant Level (MCL) of 50 µg/L for drinking water at the time. Wells OW-2 and OW-5 are located in the vicinity of the former AST and are also being monitored for lead. Lead has not been detected above the State MCL in any monitoring events for wells OW-2, OW-5 and OW-8.

Based on lead levels consistently falling below the MCL for drinking water, the lead regulatory agency, ACHCSA, issued a letter (Appendix C) on July 14, 1994 reducing the required lead sampling frequency from quarterly to semi-annually. Similarly, petroleum hydrocarbon and VOC monitoring is presently performed semi-annually for specific wells.



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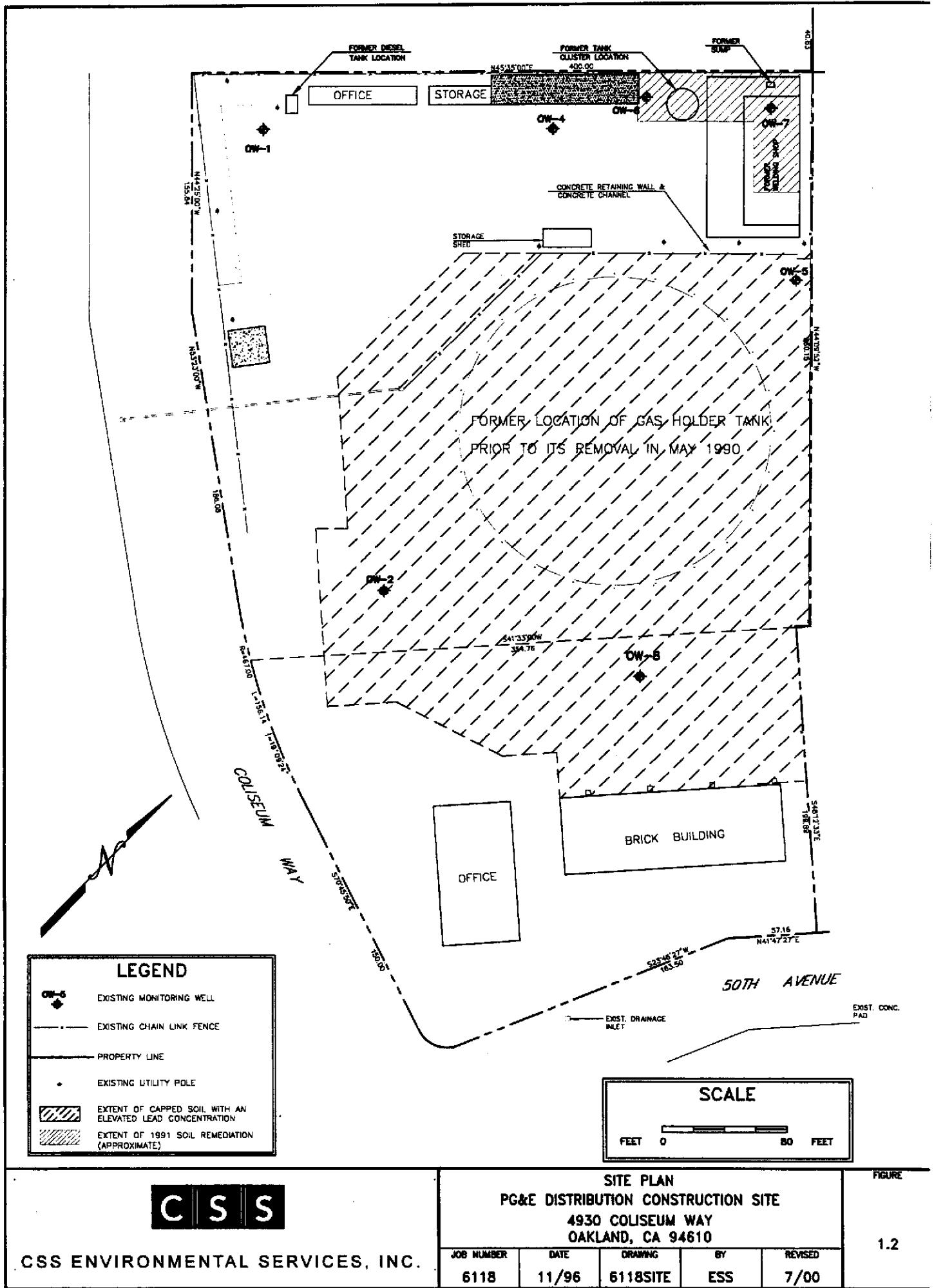
SITE LOCATION MAP

PG & E DISTRIBUTION CONSTRUCTION SITE
4930 COLISEUM WAY
OAKLAND, CA 94610

JOB NUMBER	DATE	DRAWING	BY	REVISED
6118	01/99	3666LOC	JL/ZS	00/00

FIGURE

1.1



2.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

Four of the five originally installed monitoring wells remain in existence at the site. Monitoring well OW-3 was destroyed during the remedial excavations performed in November 1991 in the northern corner of the yard. Two new monitoring wells, OW-6 and OW-7, were installed on December 19, 1991. OW-6 was placed in the vicinity of OW-3 to act as a replacement, and OW-7 was installed at the northeastern end of the remediation area to monitor upgradient contamination of the shallow groundwater underlying the site. Both wells penetrate the clean, compacted backfill placed in the previously excavated remediation area. Monitoring well OW-8 was installed in February 1993 to monitor possible lead concentrations in the groundwater, downgradient of the former AST. The locations of the new wells were approved by the ACHCSA.

On October 24, 2002, groundwater samples were collected by CSS Environmental Services, Inc. (CSS) personnel from monitoring wells OW-1, OW-2, OW-5, OW-6, OW-7, and OW-8. Well OW-4 was inaccessible due to the presence of an overlying storage container. Prior to sampling, three casing volumes of groundwater were purged with a bailer from each well to ensure the collection of formation water. The parameters' temperature, pH and conductivity were measured. Groundwater samples were then collected and properly stored for transportation to a State of California certified laboratory for analysis. This report presents the results of the October 24, 2002 sampling event.

The groundwater samples collected from each well were selectively analyzed by STL San Francisco of Pleasanton, California for TPH-D (EPA method 8015M), TPH-G and BTEX (EPA method 8015M/8021), purgeable halocarbons compounds (EPA method 8021), and lead (EPA method 6010) according to the monitoring schedule.

Table 2.1 presents the current monitoring schedule with appropriate sample analyses. This schedule has been adopted with approval from the ACHCSA as provided in their letter dated July 14, 1994.

Table 2.1 Well Monitoring Schedule and Analyses

	TPH-D	TPH-G BTEX	Purgeable Halocarbons	Dissolved Lead	Groundwater Elevation
OW - 1	S	S			S
OW - 2				S	S
OW - 4	S	S			S
OW - 5	S	S	S	S	S
OW - 6	S	S	S		S
OW - 7	S	S	S		S
OW - 8				S	S

S = Semiannual monitoring

Certified laboratory results are presented in Appendix A along with chain-of-custody documentation. A table of the historical results of the laboratory analyses is included in Appendix B.

3.0 ANALYTICAL RESULTS

3.1 PETROLEUM HYDROCARBONS

Table 3.1 summarizes the analytical results for petroleum hydrocarbons detected in the groundwater samples collected on October 24, 2002. TPH-D was detected in the four monitoring wells sampled for TPH-D and the highest concentration was observed in well OW-7. TPH-G was detected in three of the four monitoring wells sampled for TPH-G. The highest concentration of TPH-G was observed in monitoring well OW-7.

Table 3.1 Petroleum Hydrocarbons in Groundwater, in mg/L

Well	TPH-D	TPH-G
OW - 1	0.500	0.770
OW - 5	0.470	0.057
OW - 6	0.380	ND
OW - 7	1.700	1.300

Notes:

- 1) ND = Not Detected at or above the method Reporting Limits (RL)
- 2) TPH-D = Extractable Petroleum Hydrocarbons, Diesel Range; RL = 0.05 mg/L.
- 3) TPH-G = Total Petroleum Hydrocarbons, Gasoline Range; RL = 0.05 mg/L.
- 4) NA = Not Analyzed.

Figures 3.1 and 3.2 illustrate the historical concentrations of TPH-D in the monitored wells. The data from monitoring wells OW-3 and OW-6 are combined since OW-6 was installed to replace OW-3 following its destruction.

Figures 3.1 and 3.2 show that TPH-D concentrations were generally higher around the time of, or soon after, the remedial excavation in November 1991 in those wells in the remediation vicinity: OW-4, OW-6, and OW-7. Compared to the previous sampling event (June 2002), this quarter's results show an increase in TPH-D concentrations in all wells except well OW-1, which decreased slightly. Well OW-4 has been inaccessible for sampling over the past nine sampling events due to the presence of an overlying storage container.

It was noted in the February 1992 tank cluster area remediation report that there is an apparent off-site source of contamination upgradient of the PG&E yard. The persistence of moderate TPH following remediation in this area is believed to be the result of this upgradient contamination.

Figures 3.3 and 3.4 illustrate the historical concentrations of TPH-G. Between January 1991 and March 1992 the analyses were not performed. Monitoring of TPH-G concentrations in OW-2 is no longer performed due to non-detections in this well. TPH-G has been consistently below 500 µg/L

in all wells except upgradient wells OW-1, and OW-7. Historically, OW-7 has had concentrations ranging from 530 to 1,800 µg/L. The current TPH-G concentration for OW-1 is 770 µg/L. Well OW-1's current TPH-G concentration shows a slight increase compared to the previous sampling event of June 2002. OW-7's current TPH-G concentration of 1,300 µg/L has increased slightly as well. TPH-G was detected in OW-5 at 57 µg/L; TPH-G in well OW-6 was not detected.

3.2 LEAD

Table 3.2 presents the results of this quarter's groundwater analyses for soluble lead. The maximum contaminant level (MCL) observed by state water treatment systems is 15 µg/L. During this quarter's event, lead was not detected in the monitoring wells that were sampled for lead. Historically, the majority of samples show concentrations below the 15 µg/L drinking water MCL. The highest historical concentration of lead was 27 µg/L in OW-8, sampled in April 1993.

Table 3.2 Lead in Groundwater, in µg/L

Well Number	State MCL	Reporting Limit	Dissolved Lead
OW-2	15	5.0	ND
OW-5	15	5.0	ND
OW-8	15	5.0	ND

Notes:

MCL = Maximum Contaminate Level for drinking water.

ND = Not Detected at or above the method Reporting Limits (RL)

NA = Not Analyzed

Dissolved Lead analyses performed by EPA Method 6010A

FIGURE 3.1
TPH-DIESEL in OW - 1, 2, & 5

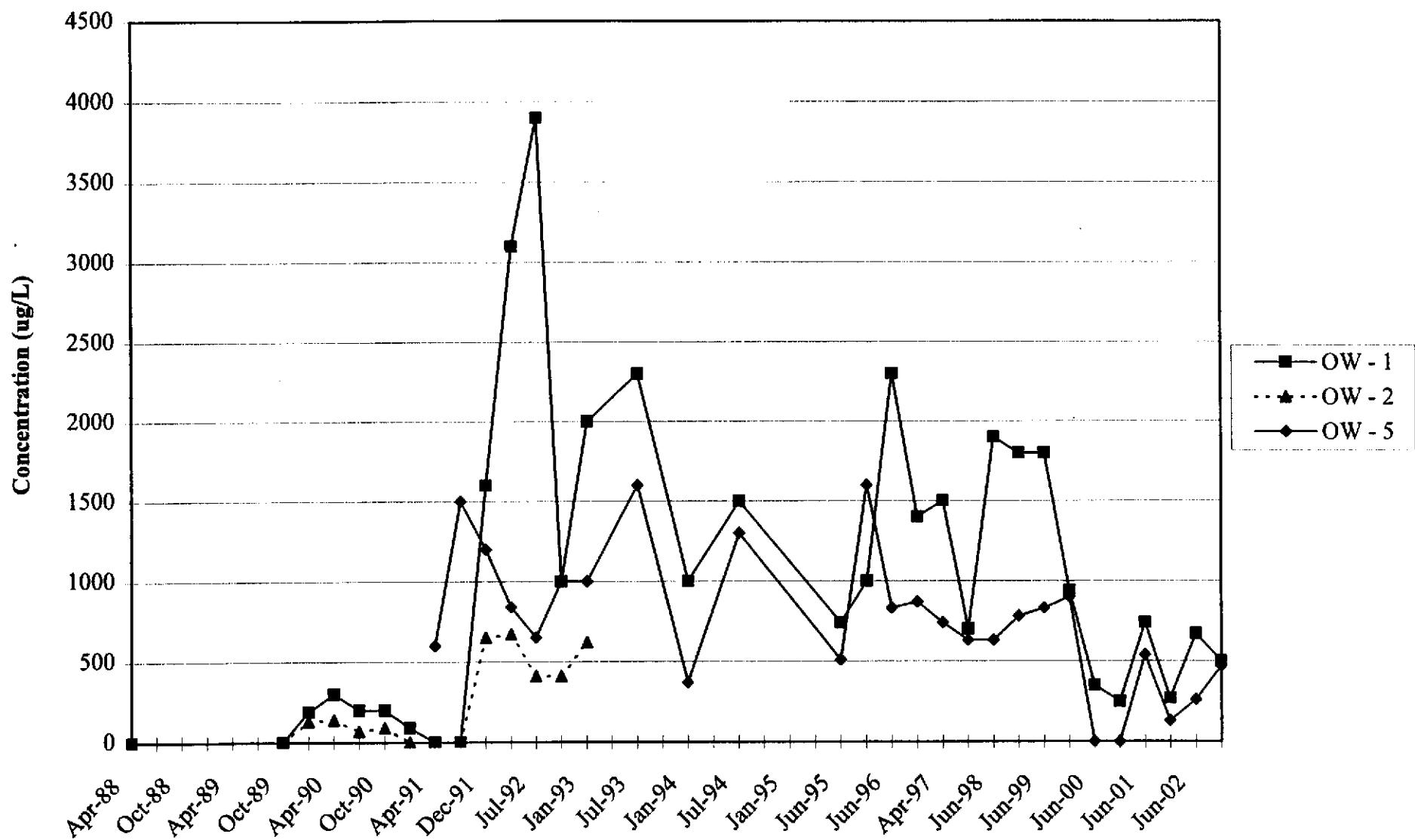


FIGURE 3.2
TPH-DIESEL in OW - 4, 3/6, & 7

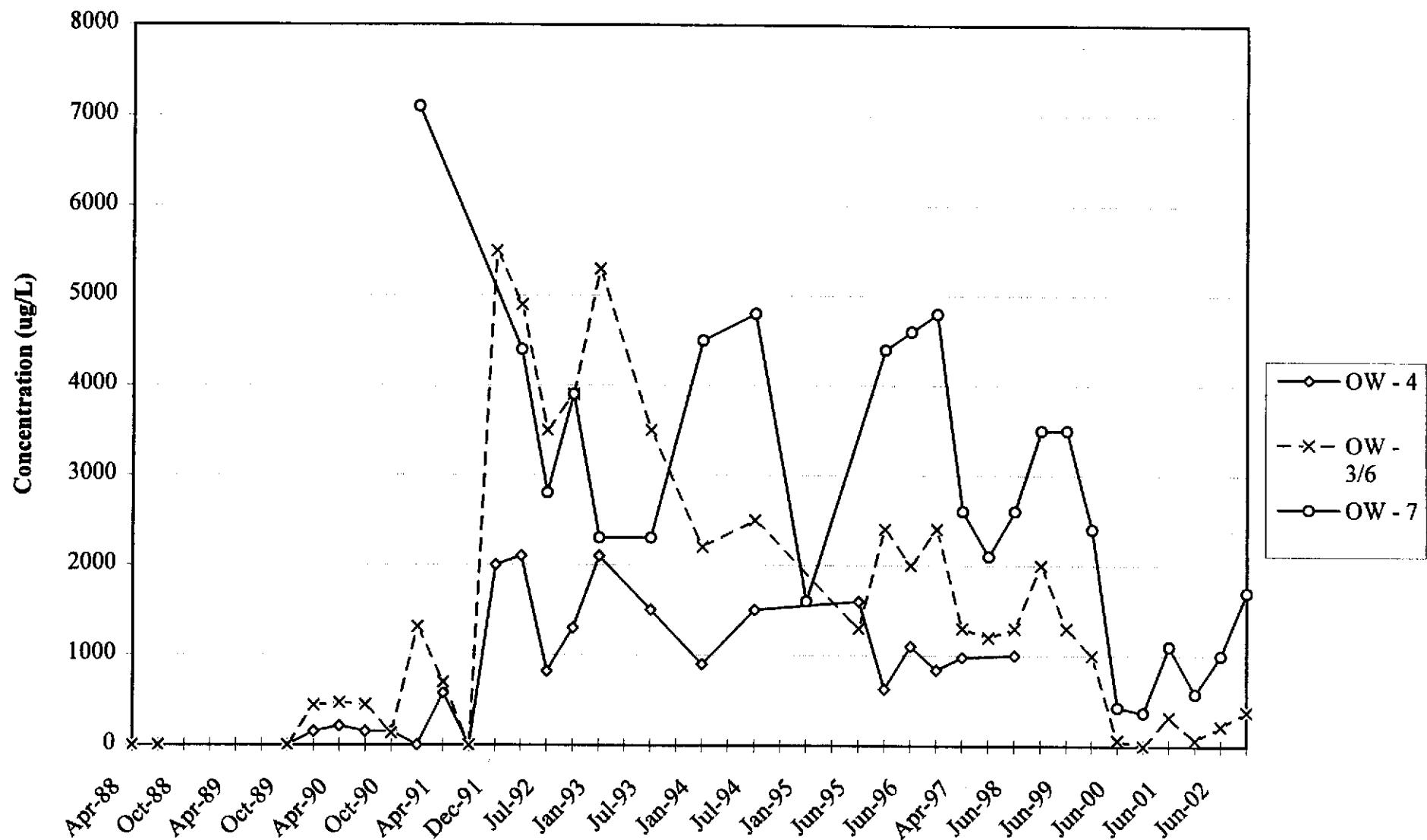


FIGURE 3.3
TPH-GASOLINE in OW - 1 & 7

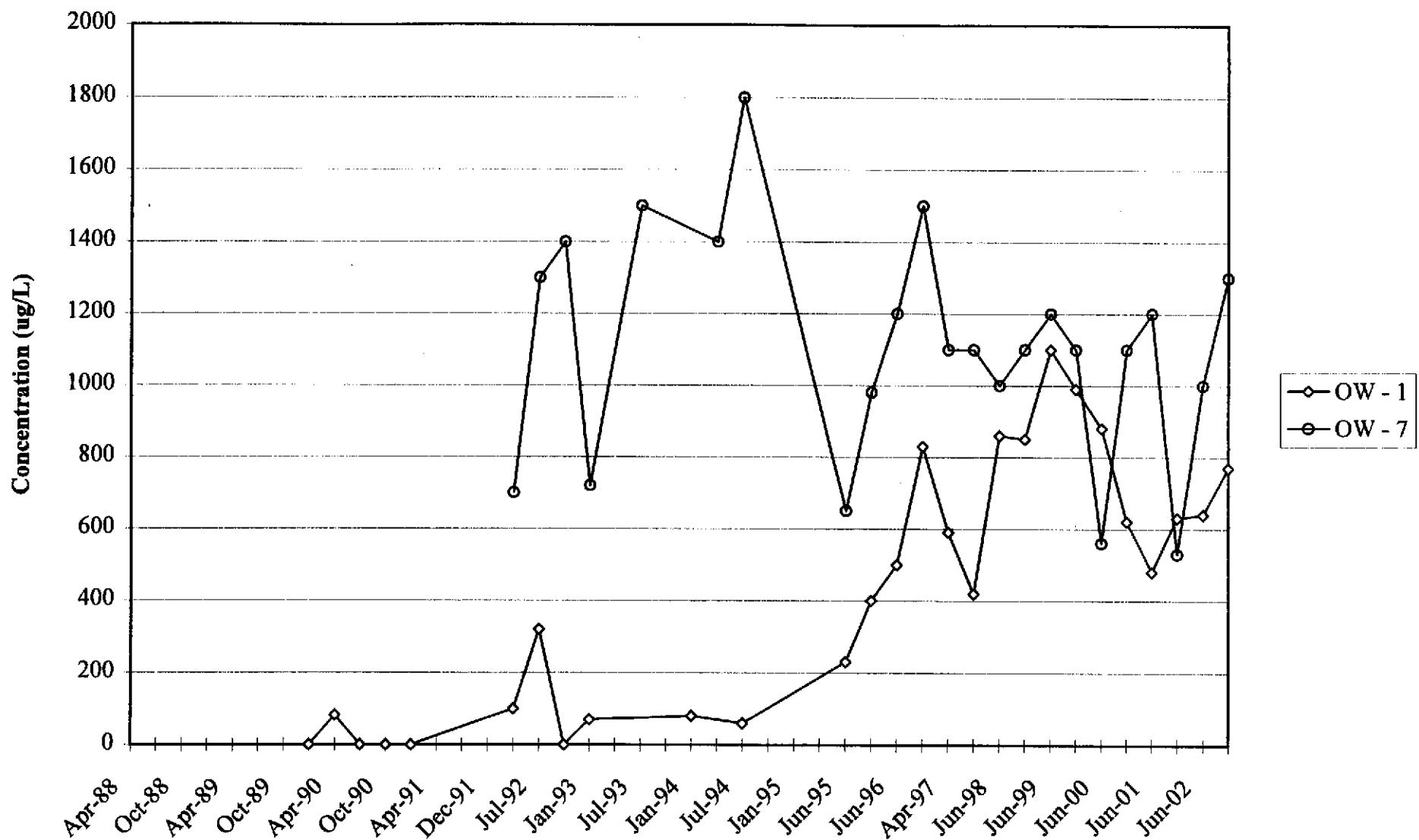
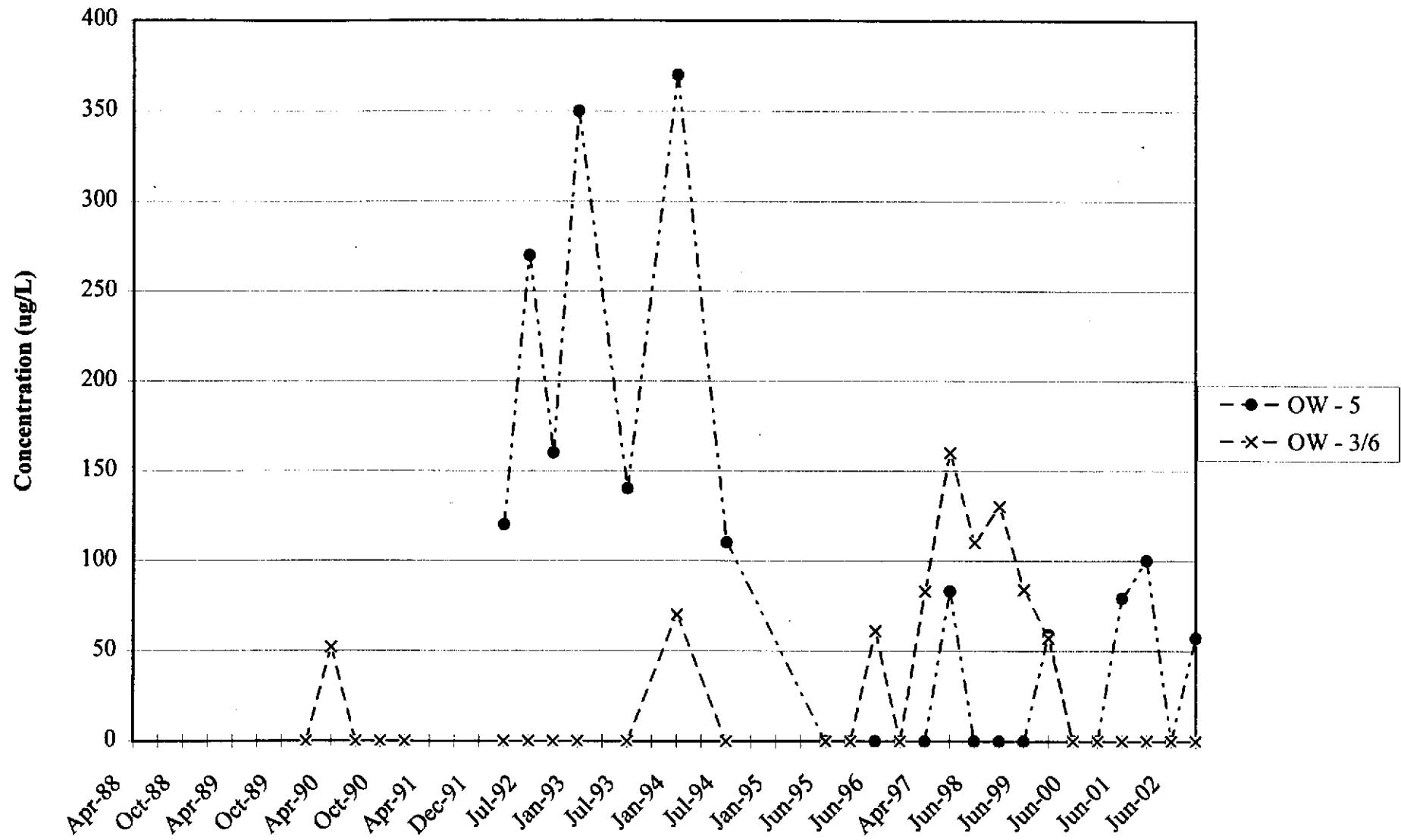


FIGURE 3.4
TPH-GASOLINE in OW - 5 & 3/6



3.3 VOLATILE ORGANIC COMPOUNDS

Table 3.3 presents the recent analytical results for VOCs in groundwater. Historical results of VOC monitoring are presented in Appendix B. The state MCLs for drinking water were exceeded for the following compounds: 1,4-Dichlorobenzene in monitoring wells OW-6 and OW-7 at concentrations of 7.2 µg/L and 950 µg/L respectively, 1,3-Dichlorobenzene in well OW-7 at 630 µg/L, Chlorobenzene in well OW-7 at 74 µg/L, and Benzene in well OW-5 at a concentration of 6.0 µg/L.

VOCs detected at concentrations below their MCLs include:

- 1,1-Dichloroethane in wells OW-5 and OW-6;
- 1,3-Dichlorobenzene in well OW-6;
- 1,2-Dichlorobenzene in well OW-7;

Figures 3.5 and 3.6 show the historical concentrations of total VOCs in the on-site monitoring wells. Figure 3.5 shows the concentrations of total VOCs in wells OW-1, OW-2 and OW-4. These wells are not presently monitored for VOCs.

Figure 3.6 shows the concentrations of total VOCs in wells OW-5, OW-6, and OW-7, located at the upgradient edges of the site. The total VOC concentrations detected this quarter in wells OW-5, OW-6, and OW-7 were 8.4 µg/L, 10.7 µg/L, and 1,774 µg/L, respectively. These three wells lie within ten feet of the northeast and/or northwest property lines of the site. Groundwater elevation monitoring consistently indicates that the groundwater flow direction is from the north from neighboring properties onto the PG&E site. This demonstrates that VOCs may be migrating onto the PG&E site from an upgradient source.

Table 3.3 Volatile Organic Compounds in Groundwater on October 24, 2002 (in ug/L)

PURGEABLE HALOCARBONS	MCL	Well Number							
		OW-1	OW-2	OW-4	OW-5	OW-6	OW-7	OW-8	MB
Chloromethane		NA	NA	NA	ND	ND	ND	NA	ND
Bromomethane		NA	NA	NA	ND	ND	ND	NA	ND
Vinyl chloride	0.5	NA	NA	NA	ND	ND	ND	NA	ND
Chloroethane		NA	NA	NA	ND	ND	ND	NA	ND
Methylene Chloride	5*	NA	NA	NA	ND	ND	ND	NA	ND
Trichlorofluoromethane	150	NA	NA	NA	ND	ND	ND	NA	ND
1,1-Dichloroethene	6	NA	NA	NA	ND	ND	ND	NA	ND
1,1-Dichloroethane	5	NA	NA	NA	2.4	1.5	ND	NA	ND
cis-1,2-Dichloroethene	6	NA	NA	NA	ND	ND	ND	NA	ND
trans-1,2-Dichloroethene	10	NA	NA	NA	ND	ND	ND	NA	ND
Chloroform	100**	NA	NA	NA	ND	ND	ND	NA	ND
Freon 113	1200	NA	NA	NA	ND	ND	ND	NA	ND
1,2-Dichloroethane	0.5	NA	NA	NA	ND	ND	ND	NA	ND
1,1,1-Trichloroethane	200	NA	NA	NA	ND	ND	ND	NA	ND
Carbon Tetrachloride	0.5	NA	NA	NA	ND	ND	ND	NA	ND
Bromodichloromethane	100**	NA	NA	NA	ND	ND	ND	NA	ND
1,2-Dichloropropane	5	NA	NA	NA	ND	ND	ND	NA	ND
cis-1,3-Dichloropropene	5***	NA	NA	NA	ND	ND	ND	NA	ND
Trichloroethylene	5	NA	NA	NA	ND	ND	ND	NA	ND
1,1,2-Trichloroethane	32	NA	NA	NA	ND	ND	ND	NA	ND
trans-1,3-Dichloropropene	5***	NA	NA	NA	ND	ND	ND	NA	ND
Dibromochloromethane	100**	NA	NA	NA	ND	ND	ND	NA	ND
2-Chloroethylvinyl Ether		NA	NA	NA	ND	ND	ND	NA	ND
Bromoform	100**	NA	NA	NA	ND	ND	ND	NA	ND
Tetrachloroethylene	5	NA	NA	NA	ND	ND	ND	NA	ND
1,1,2,2-Tetrachloroethane	1	NA	NA	NA	ND	ND	ND	NA	ND
Chlorobenzene	30	NA	NA	NA	ND	ND	ND	NA	ND
1,3-Dichlorobenzene	600*	NA	NA	NA	ND	2.0	630	NA	ND
1,2-Dichlorobenzene	600*	NA	NA	NA	ND	ND	120	NA	ND
1,4-Dichlorobenzene	5	NA	NA	NA	ND	ND	72	930	NA
PURGEABLE AROMATICS									
Benzene	1	ND	NA	NA	6.0	ND	ND	NA	ND
Toluene	1000#	ND	NA	NA	ND	ND	ND	NA	ND
Ethylbenzene	680	ND	NA	NA	ND	ND	ND	NA	ND
Total Xylenes	1750**	ND	NA	NA	ND	ND	ND	NA	ND
FUEL OXYGENATES									
Methyl tertiary butyl ether	13+	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1) MCL = Maximum Contaminant Level in drinking water (State MCL, if not noted otherwise)

2) # = EPA MCL

3) * = MCL for sum of four compounds

4) ** = MCL for sum of all xylene isomers

5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene

6) ND = Not Detected at or above MDL

7) Purgeable Halocarbons (EPA method 8010)

8) Purgeable Aromatics (EPA method 8020)

9) Fuel Oxygenates, MTBE only (EPA method 8260A)

Exceeded MCL

10) NA = Not Tested

11) MB = Method Blank

12) + = California Public Health Goal for Chemicals in Drinking Water

FIGURE 3.5
TOTAL VOCs in OW-1, 2, & 4

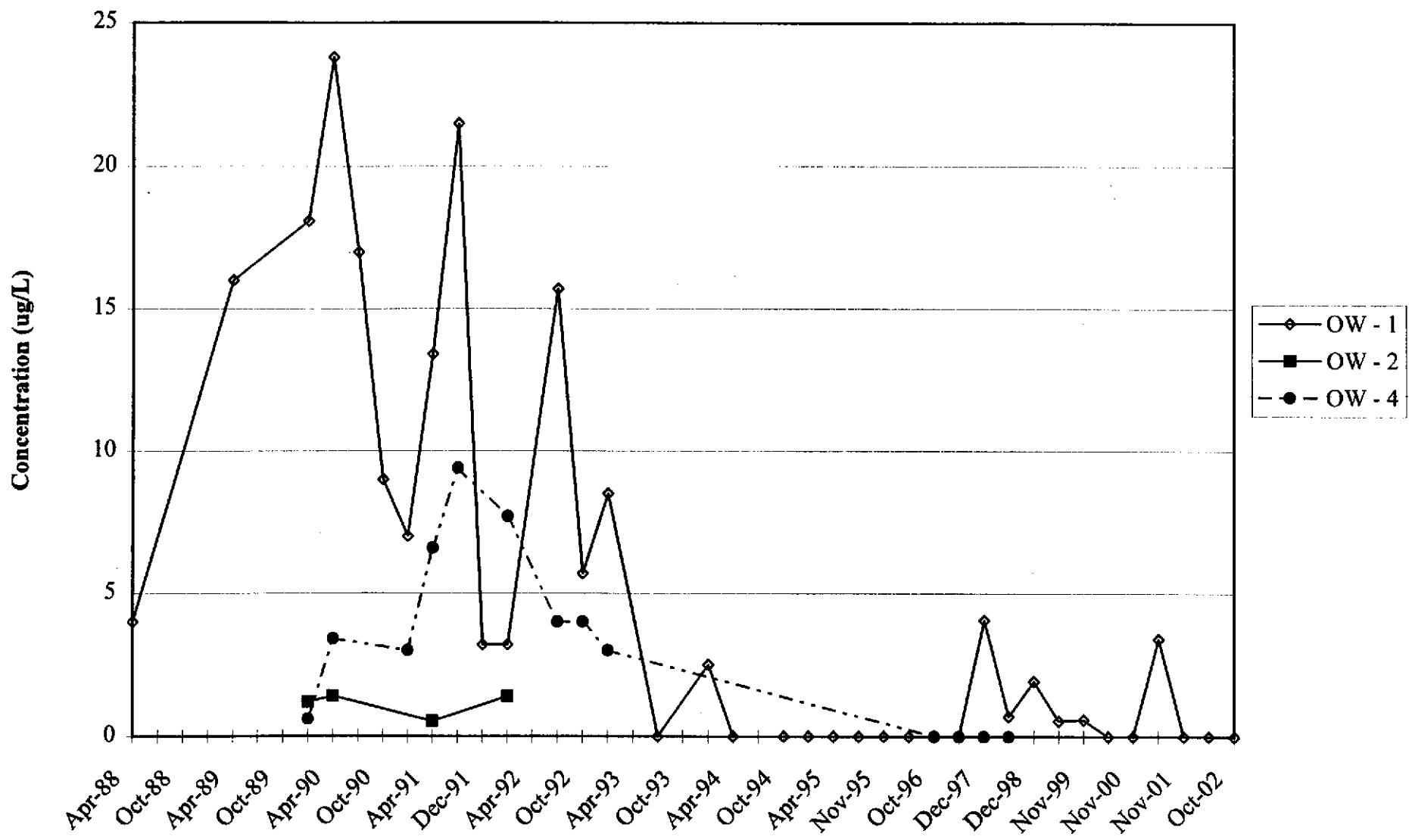
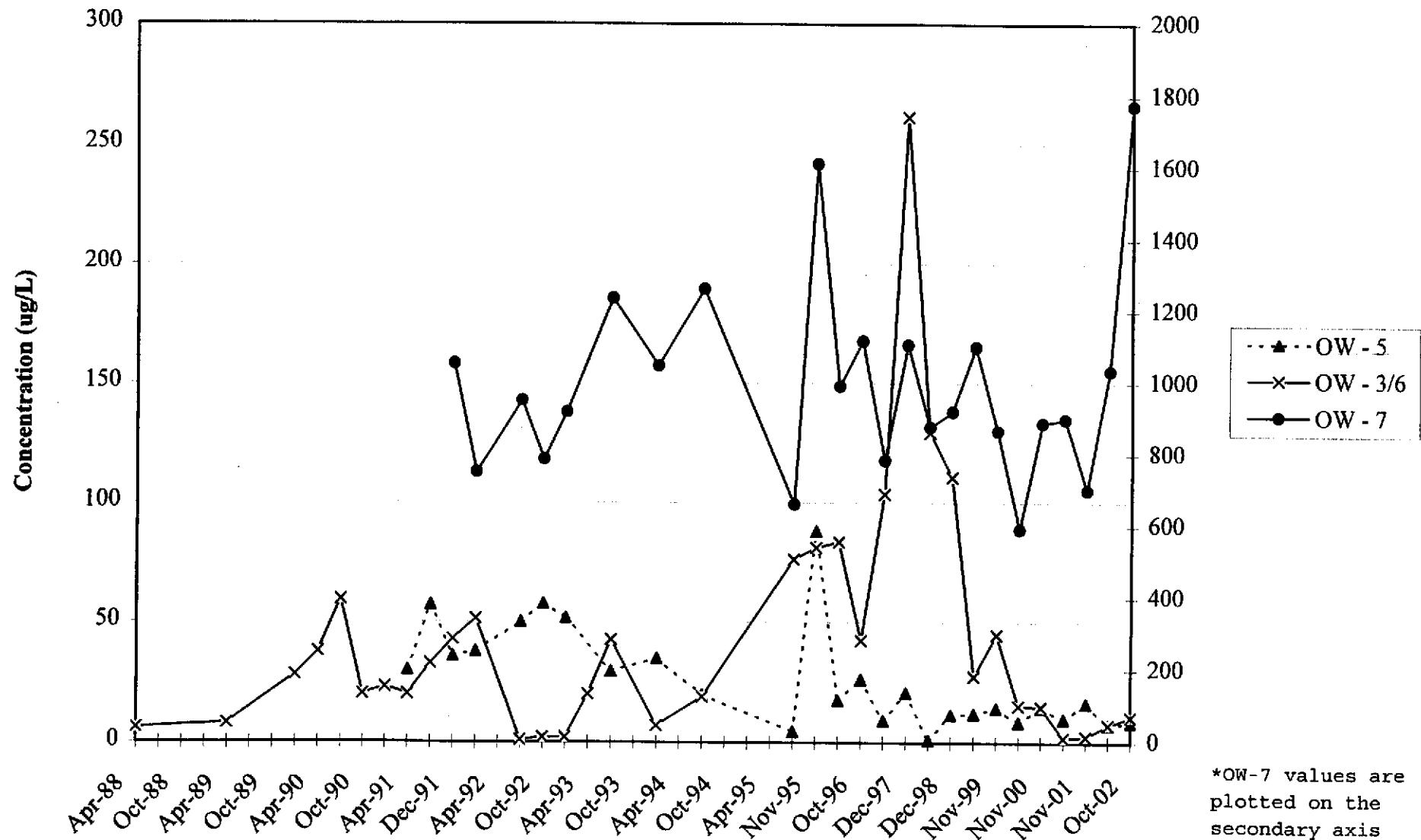


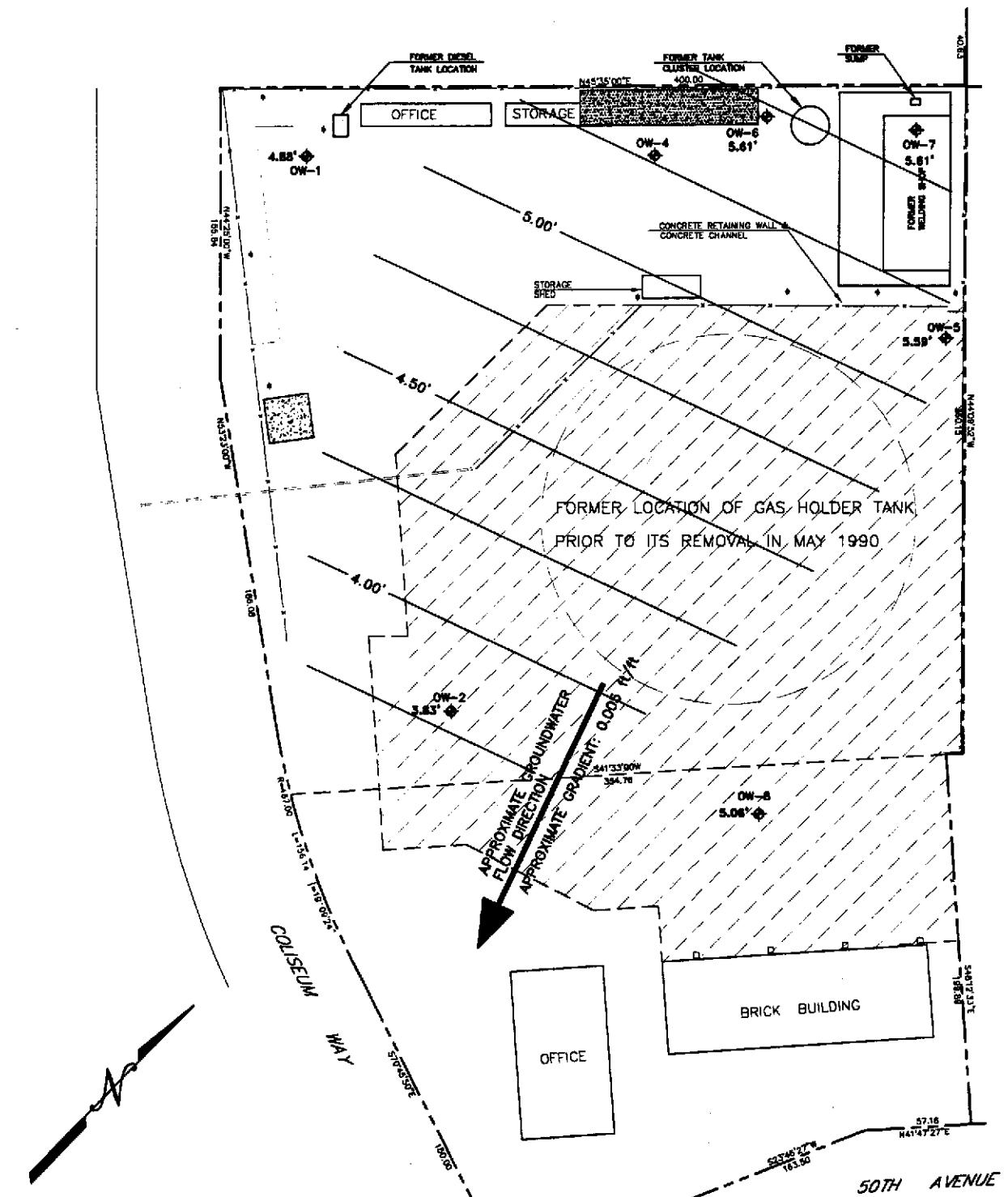
FIGURE 3.6
TOTAL VOCs in OW-5, 6, & 7*



4.0 GROUNDWATER FLOW DIRECTION

Water level measurements in the site monitoring wells were collected on October 24, 2002, prior to groundwater sampling. Groundwater elevations are shown in relation to a site specific coordinate system reported in previous reports. The top of casing (TOC) elevations for each of the wells are based upon an assumed TOC elevation of 10 feet at OW-1.

The groundwater elevations measured on October 24, 2002 and the resulting gradient direction are presented in Figure 4.1. Historical groundwater elevations along with TOC elevations for each well are presented as a graph in Figure 4.2. The groundwater flow direction was calculated from groundwater elevations in OW-1, OW-2, and OW-7, and indicates the local groundwater gradient on this date was 0.005 ft/ft to the south. The gradient value is slightly lower than that normally observed. The lead mitigation cap now limits direct precipitative recharge in the area between wells OW-2 and OW-5, and OW-8. The majority of the remaining site area has also been paved.



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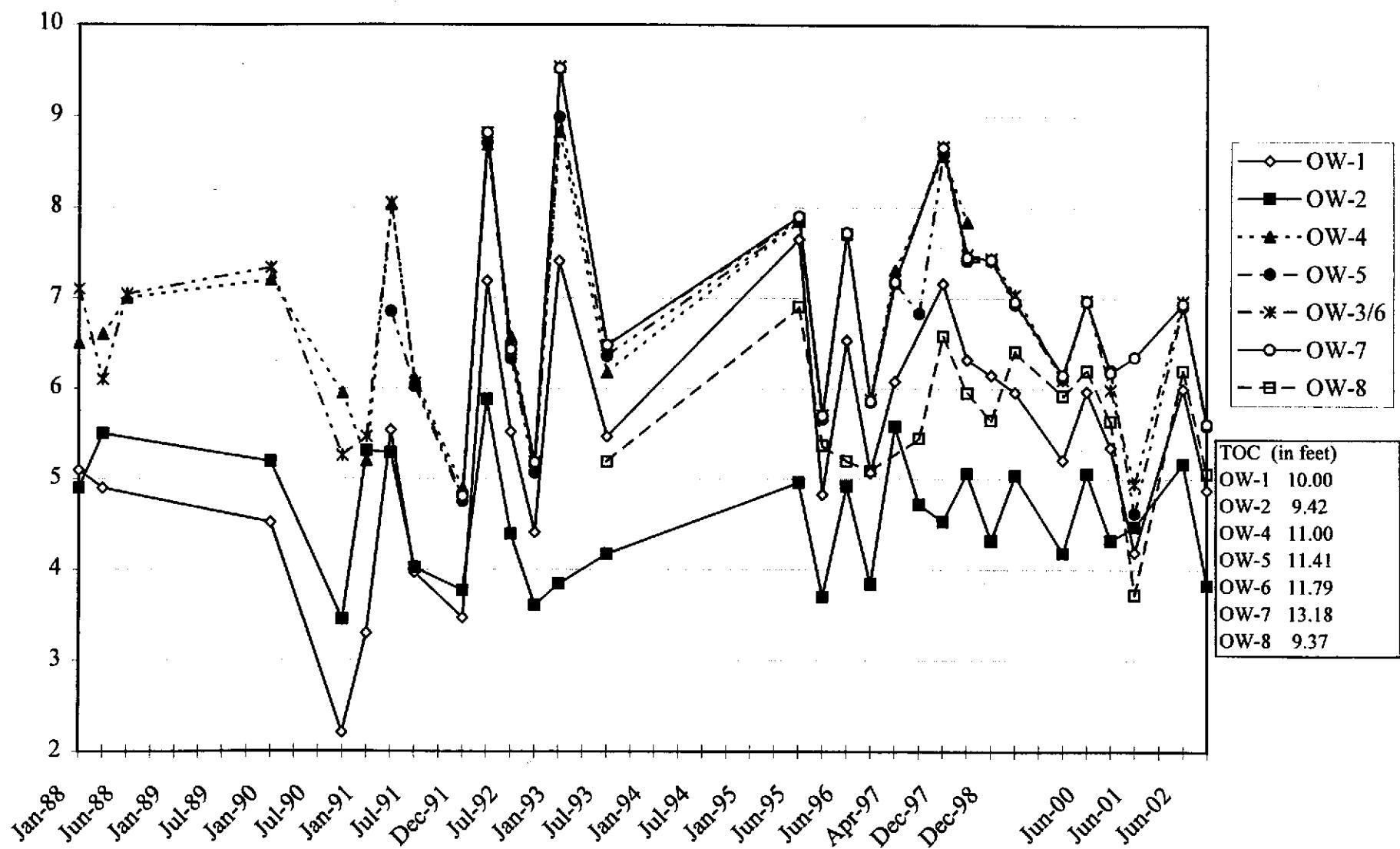
SITE PLAN AND SITE RELATIVE GROUNDWATER ELEVATIONS
PG&E DISTRIBUTION CONSTRUCTION SITE
4930 COLISEUM WAY
OAKLAND, CA 94610

JOB NUMBER	DATE	DRAWING	BY	REVISED
6118	1/99	GW10-02	ES/ZS/BD	11/02

FIGURE

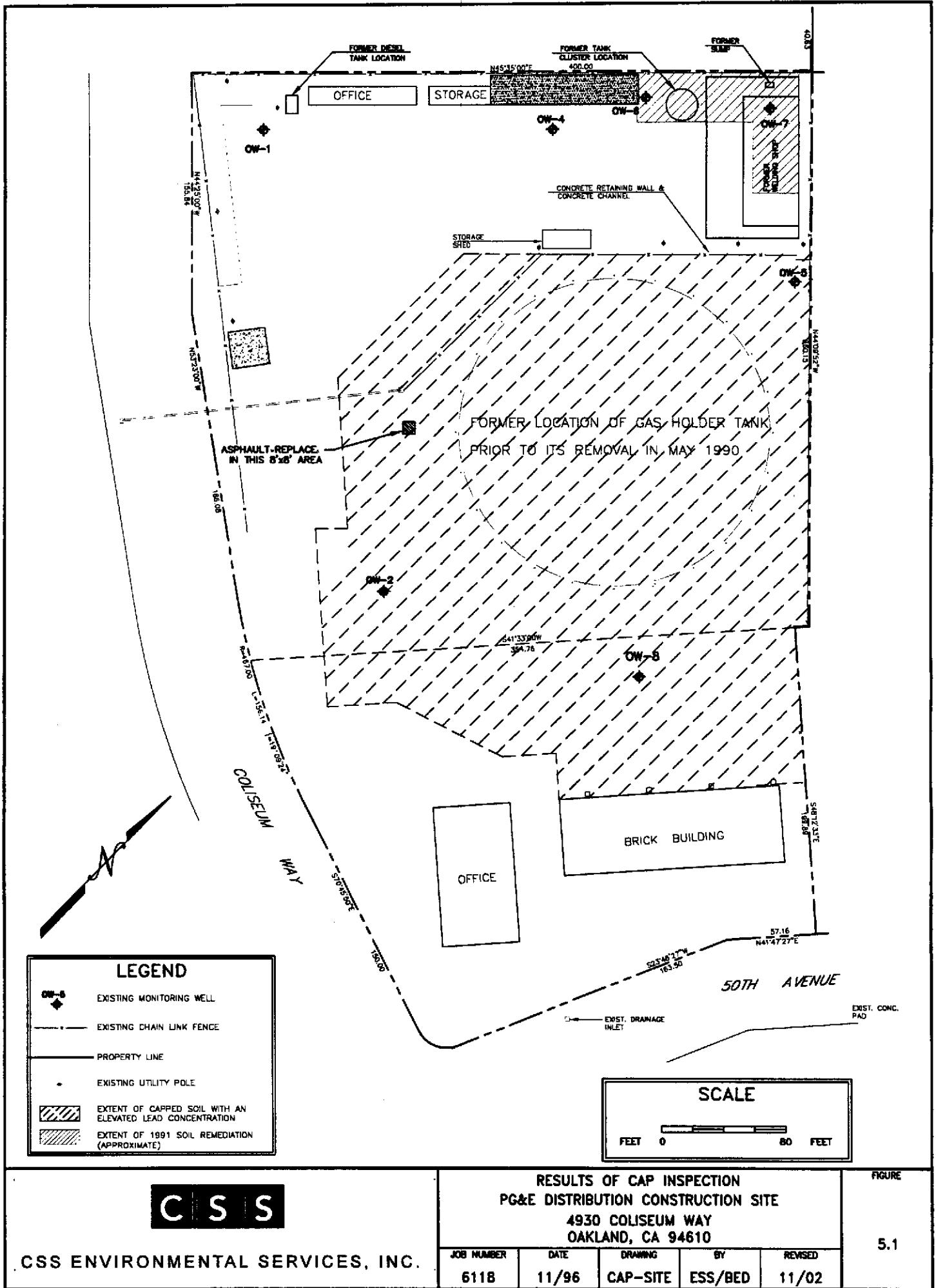
4.1

FIGURE 4.2
HISTORICAL GROUNDWATER ELEVATIONS



5.0 CAP INSPECTION

The asphaltic concrete cap was inspected by Mr. Aaron N. Stessman, PE on October 24, 2002. The condition of the asphalt was good as was the line demarcating the edge of the cap. One 8-foot by 8-foot area with damaged asphalt shown on Figure 5.1 was identified and marked with white paint. It is recommended that this area be repaired or replaced, and that general weed control be continued to prevent potential damage to the cap. The next scheduled cap inspection is during the fourth quarter of 2003.



6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The following conclusions are made based upon the results of analyses performed on groundwater samples collected on October 24, 2002 from monitoring wells OW-1, OW-2, OW-5, OW-6, OW-7 and OW-8, and from prior semi-annual sampling results.

- The groundwater beneath the site appears to flow to the south, consistent with the historical flow direction range of south to southwest. The groundwater gradient of 0.005 ft/ft is slightly lower than that previously observed.
- TPH-D was detected in wells OW-1, OW-5, OW-6 and OW-7 above the reporting limit of 50 µg/L, however the concentrations are at lower concentrations than most historical sampling events. The highest concentration was found in well OW-7 at 1700 µg/L. Moderate TPH-D concentrations in groundwater have persisted in wells located in the northeastern portion of the property. Since remedial action had removed known sources of contaminants within the site, the presence of TPH-D is likely to be caused by upgradient, off-site source. The current applicable guideline for TPH-D where groundwater is a potential source of drinking water is the California Regional Water Quality Control Board, San Francisco Bay Region's (RWQCB's) Risk-Based Screening Level (RBSL) of 100 µg/L, the EPA Suggested No-Adverse-Response Level (SNARL).
- Monitoring wells OW-1, and OW-7 had TPH-G concentrations of 770 and 1300 µg/L, respectively. TPH-G was detected at 57 µg/L in well OW-5, just above the reporting limit of 50 µg/L. TPH-G was not detected in well OW-6. Well OW-7 continues to have the highest concentration of TPH-G. The presence of TPH-G is likely from an upgradient, off-site source. The current applicable guideline for TPH-G is the RBSL of 100 µg/L, the EPA SNARL for diesel.
- Soluble lead concentrations were not detected in monitoring wells OW-2, OW-5 and OW-8. The MCL for lead in drinking water is 15 µg/L.
- Wells OW-5, OW-6 and OW-7 lie at the upgradient portion of the site and historically have had the highest concentrations of TPH-G and/or VOCs. The total VOC concentration is particularly elevated in OW-7, averaging near 1,000 µg/L. This indicates an upgradient, off-site source of fuel and solvent contamination located north of the subject site. The concentration of total VOCs in all three wells increased this quarter relative to the previous sampling event.

- The following VOC's were detected above their MCL:

1,4-Dichlorobenzene in wells OW-6 and OW-7;
1,3-Dichlorobenzene in well OW-7;
Chlorobenzene in well OW-7;
Benzene in well OW-5.

- The following VOCs were detected below their MCL:

1,1-Dichloroethane in wells OW-5 and OW-6;
1,3-Dichlorobenzene in well OW-6;
1,2-Dichlorobenzene in well OW-7;

6.2 RECOMMENDATIONS

- Continue monitoring in conformance with the revised ACHCSA schedule.
- It is recommended that the 8-foot by 8-foot area of damaged asphalt shown on Figure 5.1 and marked in the field with white paint be repaired or replaced, and that general weed control be continued to prevent potential damage to the asphaltic concrete cap.
- An unidentified upgradient source of TPH-D, TPH-G and VOCs north of the subject property is clearly indicated by the groundwater monitoring data. Based on this finding it is recommended that PG&E enter into discussions with the involved regulatory agencies to investigate and pursue those responsible for the groundwater contaminants entering the PG&E property.

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APPENDIX A

Sample Collection Records Certified Laboratory Results

Submission#: 2002-10-0554

November 05, 2002

SEVERN

TRENT

LABORATORY

CSS Environmental Services

95 Belvedere Street, Suite 2
San Rafael, CA 94901

Attn.: Aaron Stessman

Project#: 6118
Project: PG& E Coliseum Way

STL San Francisco
1220 Quarry Ln
Pleasanton CA 94566

Tel.: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#:2496

Dear Mr. Stessman,

Attached is our report for your samples received on 10/25/2002 17:43

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 12/09/2002 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: tgranicher@chromalab.com

Sincerely,



Tod Granicher
Project Manager

Submission #: 2002-10-0554

Diesel

CSS Environmental Services

Attn.: Aaron Stessman
95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

Project: 6118
PG& E Coliseum Way

Received: 10/25/2002 17:43

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STL San Francisco
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www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OW-1	10/24/2002 13:40	Water	1
OW-5	10/24/2002 12:55	Water	3
OW-6	10/24/2002 14:10	Water	4
OW-7	10/24/2002 14:45	Water	5

Submission #: 2002-10-0554

Diesel

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: OW-1 Lab ID: 2002-10-0554 - 1
Sampled: 10/24/2002 13:40 Extracted: 10/29/2002 09:14
Matrix: Water QC Batch#: 2002/10/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	500	50	ug/L	1.00	10/29/2002 14:51	ndp
Surrogates(s)						
o-Terphenyl	80.9	60-130	%	1.00	10/29/2002 14:51	

Submission #: 2002-10-0554

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CA DHS ELAP# 2496

Prep(s): 3510/8015M
Sample ID: OW-5
Sampled: 10/24/2002 12:55
Matrix: Water

Test(s): 8015M
Lab ID: 2002-10-0554 - 3
Extracted: 10/29/2002 09:14
QC Batch#: 2002/10/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	470	50	ug/L	1.00	10/29/2002 15:31	ndp
Surrogates(s)						
o-Terphenyl	86.9	60-130	%	1.00	10/29/2002 15:31	

Submission #: 2002-10-0554

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CA DHS ELAP# 2496

Prep(s): 3510/8015M

Test(s): 8015M

Sample ID: OW-6

Lab ID: 2002-10-0554 - 4

Sampled: 10/24/2002 14:10

Extracted: 10/29/2002 09:14

Matrix: Water

QC Batch#: 2002/10/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	380	50	ug/L	1.00	10/29/2002 16:12	ndp
Surrogates(s)						
o-Terphenyl	84.5	60-130	%	1.00	10/29/2002 16:12	

Submission #: 2002-10-0554

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CA DHS ELAP# 2496

Prep(s): 3510/8015M

Test(s): 8015M

Sample ID: OW-7

Lab ID: 2002-10-0554 - 5

Sampled: 10/24/2002 14:45

Extracted: 10/29/2002 09:14

Matrix: Water

QC Batch#: 2002/10/29-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1700	50	ug/L	1.00	10/29/2002 16:52	ndp
Surrogates(s) o-Terphenyl	88.4	60-130	%	1.00	10/29/2002 16:52	

Submission #: 2002-10-0554

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1220 Quarry Lane
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Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Method Blank

Water

QC Batch # 2002/10/29-02.10

MB: 2002/10/29-02.10-001

Date Extracted: 10/29/2002 09:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	10/29/2002 16:32	
Surrogates(s) o-Terphenyl	93.0	60-130	%	10/29/2002 16:32	

Submission #: 2002-10-0554

Diesel

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1220 Quarry Lane
Pleasanton, CA 94566

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/10/29-02.10

LCS 2002/10/29-02.10-002
LCSD 2002/10/29-02.10-003

Extracted: 10/29/2002

Extracted: 10/29/2002

Analyzed: 10/29/2002 15:18

Analyzed: 10/29/2002 15:55

Compound	Conc.	ug/L	Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Diesel	1080	1120	1250	86.4	89.6	3.6	60-130	25		
Surrogates(s) o-Terphenyl	18.7	18.6	20.0	93.4	93.1		60-130	0		

Submission #: 2002-10-0554

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Diesel

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Phone: (415) 457-9551 Fax: (415) 457-9261

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1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
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CA DHS ELAP# 2496

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Submission #: 2002-10-0554

Halogenated Volatile Organic Compounds by 8021

CSS Environmental Services

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Project: 6118

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OW-5	10/24/2002 12:55	Water	3
OW-6	10/24/2002 14:10	Water	4
OW-7	10/24/2002 14:45	Water	5

Submission #: 2002-10-0554

Halogenated Volatile Organic Compounds by 8021

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Project: 6118
 PG&E Coliseum Way

Received: 10/25/2002 17:43

Prep(s): 5030B

Test(s): 8021B

Sample ID: OW-5

Lab ID: 2002-10-0554 - 3

Sampled: 10/24/2002 12:55

Extracted: 11/3/2002 13:57

Matrix: Water

QC Batch#: 2002/11/03-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	11/03/2002 13:57	
Vinyl chloride	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Chloroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Methylene chloride	ND	5.0	ug/L	1.00	11/03/2002 13:57	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,1-Dichloroethane	2.4	0.50	ug/L	1.00	11/03/2002 13:57	
Chloroform	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Carbon tetrachloride	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Trichloroethene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Bromodichloromethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	11/03/2002 13:57	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Tetrachloroethene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Dibromochloromethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Chlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Bromoform	ND	2.0	ug/L	1.00	11/03/2002 13:57	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	11/03/2002 13:57	
Chloromethane	ND	1.0	ug/L	1.00	11/03/2002 13:57	
Bromomethane	ND	1.0	ug/L	1.00	11/03/2002 13:57	
Surrogates(s)						
1-Chloro-2-fluorobenzene	87.0	70-130	%	1.00	11/03/2002 13:57	

Submission #: 2002-10-0554

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LABORATORY
STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP# 2496

CSS Environmental Services

Attn.: Aaron Stessman
 95 Belvedere Street, Suite 2
 San Rafael, CA 94901
 Phone: (415) 457-9551 Fax: (415) 457-9261

Project: 6118
 PG&E Coliseum Way

Received: 10/25/2002 17:43

Prep(s):	5030B	Test(s):	8021B
Sample ID:	OW-6	Lab ID:	2002-10-0554 - 4
Sampled:	10/24/2002 14:10	Extracted:	11/3/2002 14:42
Matrix:	Water	QC Batch#:	2002/11/03-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	11/03/2002 14:42	
Vinyl chloride	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Chloroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Methylene chloride	ND	5.0	ug/L	1.00	11/03/2002 14:42	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,1-Dichloroethane	1.5	0.50	ug/L	1.00	11/03/2002 14:42	
Chloroform	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Carbon tetrachloride	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Trichloroethene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Bromodichloromethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	11/03/2002 14:42	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Tetrachloroethene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Dibromochloromethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Chlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Bromoform	ND	2.0	ug/L	1.00	11/03/2002 14:42	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
1,3-Dichlorobenzene	2.0	0.50	ug/L	1.00	11/03/2002 14:42	
1,4-Dichlorobenzene	7.2	0.50	ug/L	1.00	11/03/2002 14:42	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	11/03/2002 14:42	
Chloromethane	ND	1.0	ug/L	1.00	11/03/2002 14:42	
Bromomethane	ND	1.0	ug/L	1.00	11/03/2002 14:42	
Surrogates(s)						
1-Chloro-2-fluorobenzene	103.2	70-130	%	1.00	11/03/2002 14:42	

Submission #: 2002-10-0554

Halogenated Volatile Organic Compounds by 8021

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Attn.: Aaron Stessman
95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

Project: 6118
PG&E Coliseum Way

Received: 10/25/2002 17:43

Prep(s): 5030B Test(s): 8021B
 Sample ID: OW-7 Lab ID: 2002-10-0554 - 5
 Sampled: 10/24/2002 14:45 Extracted: 11/4/2002 17:15
 Matrix: Water QC Batch#: 2002/11/04-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	50	ug/L	50.00	11/04/2002 17:15	
Vinyl chloride	ND	25	ug/L	50.00	11/04/2002 17:15	
Chloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Trichlorofluoromethane	ND	25	ug/L	50.00	11/04/2002 17:15	
1,1-Dichloroethene	ND	25	ug/L	50.00	11/04/2002 17:15	
Methylene chloride	ND	250	ug/L	50.00	11/04/2002 17:15	
trans-1,2-Dichloroethene	ND	25	ug/L	50.00	11/04/2002 17:15	
cis-1,2-Dichloroethene	ND	25	ug/L	50.00	11/04/2002 17:15	
1,1-Dichloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Chloroform	ND	25	ug/L	50.00	11/04/2002 17:15	
1,1,1-Trichloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Carbon tetrachloride	ND	25	ug/L	50.00	11/04/2002 17:15	
1,2-Dichloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Trichloroethene	ND	25	ug/L	50.00	11/04/2002 17:15	
1,2-Dichloropropane	ND	25	ug/L	50.00	11/04/2002 17:15	
Bromodichloromethane	ND	25	ug/L	50.00	11/04/2002 17:15	
2-Chloroethylvinyl ether	ND	25	ug/L	50.00	11/04/2002 17:15	
trans-1,3-Dichloropropene	ND	25	ug/L	50.00	11/04/2002 17:15	
cis-1,3-Dichloropropene	ND	25	ug/L	50.00	11/04/2002 17:15	
1,1,2-Trichloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Tetrachloroethene	ND	25	ug/L	50.00	11/04/2002 17:15	
Dibromochloromethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Chlorobenzene	74	25	ug/L	50.00	11/04/2002 17:15	
Bromoform	ND	100	ug/L	50.00	11/04/2002 17:15	
1,1,2,2-Tetrachloroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
1,3-Dichlorobenzene	630	25	ug/L	50.00	11/04/2002 17:15	
1,4-Dichlorobenzene	950	25	ug/L	50.00	11/04/2002 17:15	
1,2-Dichlorobenzene	120	25	ug/L	50.00	11/04/2002 17:15	
Trichlorotrifluoroethane	ND	25	ug/L	50.00	11/04/2002 17:15	
Chloromethane	ND	50	ug/L	50.00	11/04/2002 17:15	
Bromomethane	ND	50	ug/L	50.00	11/04/2002 17:15	
Surrogates(s)						
1-Chloro-2-fluorobenzene	90.2	70-130	%	50.00	11/04/2002 17:15	

Submission #: 2002-10-0554

**SEVERN
TRENT
LABORATORY**
STL San Francisco
220 Quarry Lane
Pleasanton, CA 94566
tel: (925) 484-1919
fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com
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Halogenated Volatile Organic Compounds by 8021

CSS Environmental Services

**Attn.: Aaron Stessman
95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261**

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Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/11/03-01.25-004

Water

Test(s): 8021B

QC Batch # 2002/11/03-01.25

Date Extracted: 11/03/2002 10:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	11/03/2002 10:32	
Vinyl chloride	ND	0.5	ug/L	11/03/2002 10:32	
Chloroethane	ND	0.5	ug/L	11/03/2002 10:32	
Trichlorodifluoromethane	ND	0.5	ug/L	11/03/2002 10:32	
1,1-Dichloroethene	ND	0.5	ug/L	11/03/2002 10:32	
Methylene chloride	ND	5.0	ug/L	11/03/2002 10:32	
trans-1,2-Dichloroethene	ND	0.5	ug/L	11/03/2002 10:32	
cis-1,2-Dichloroethene	ND	0.5	ug/L	11/03/2002 10:32	
1,1-Dichloroethane	ND	0.5	ug/L	11/03/2002 10:32	
Chloroform	ND	0.5	ug/L	11/03/2002 10:32	
1,1,1-Trichloroethane	ND	0.5	ug/L	11/03/2002 10:32	
Carbon tetrachloride	ND	0.5	ug/L	11/03/2002 10:32	
1,2-Dichloroethane	ND	0.5	ug/L	11/03/2002 10:32	
Trichloroethene	ND	0.5	ug/L	11/03/2002 10:32	
1,2-Dichloropropane	ND	0.5	ug/L	11/03/2002 10:32	
Bromodichloromethane	ND	0.5	ug/L	11/03/2002 10:32	
2-Chloroethylvinyl ether	ND	0.5	ug/L	11/03/2002 10:32	
trans-1,3-Dichloropropene	ND	0.5	ug/L	11/03/2002 10:32	
cis-1,3-Dichloropropene	ND	0.5	ug/L	11/03/2002 10:32	
1,1,2-Trichloroethane	ND	0.5	ug/L	11/03/2002 10:32	
Tetrachloroethene	ND	0.5	ug/L	11/03/2002 10:32	
Dibromochloromethane	ND	0.5	ug/L	11/03/2002 10:32	
Chlorobenzene	ND	0.5	ug/L	11/03/2002 10:32	
Bromoform	ND	2.0	ug/L	11/03/2002 10:32	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	11/03/2002 10:32	
1,3-Dichlorobenzene	ND	0.5	ug/L	11/03/2002 10:32	
1,4-Dichlorobenzene	ND	0.5	ug/L	11/03/2002 10:32	
1,2-Dichlorobenzene	ND	0.5	ug/L	11/03/2002 10:32	
Trichlorotrifluoroethane	ND	0.5	ug/L	11/03/2002 10:32	
Chloromethane	ND	1.0	ug/L	11/03/2002 10:32	
Bromomethane	ND	1.0	ug/L	11/03/2002 10:32	
Surrogates(s)					
1-Chloro-2-fluorobenzene	101.2	70-130	%	11/03/2002 10:32	

Submission #: 2002-10-0554

Halogenated Volatile Organic Compounds by 8021

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95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Method Blank

Water

QC Batch # 2002/11/04-01.25

MB: 2002/11/04-01.25-004

Date Extracted: 11/04/2002 09:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	11/04/2002 09:50	
Vinyl chloride	ND	0.5	ug/L	11/04/2002 09:50	
Chloroethane	ND	0.5	ug/L	11/04/2002 09:50	
Trichlorofluoromethane	ND	0.5	ug/L	11/04/2002 09:50	
1,1-Dichloroethene	ND	0.5	ug/L	11/04/2002 09:50	
Methylene chloride	ND	5.0	ug/L	11/04/2002 09:50	
trans-1,2-Dichloroethene	ND	0.5	ug/L	11/04/2002 09:50	
cis-1,2-Dichloroethene	ND	0.5	ug/L	11/04/2002 09:50	
1,1-Dichloroethane	ND	0.5	ug/L	11/04/2002 09:50	
Chloroform	ND	0.5	ug/L	11/04/2002 09:50	
1,1,1-Trichloroethane	ND	0.5	ug/L	11/04/2002 09:50	
Carbon tetrachloride	ND	0.5	ug/L	11/04/2002 09:50	
1,2-Dichloroethane	ND	0.5	ug/L	11/04/2002 09:50	
Trichloroethene	ND	0.5	ug/L	11/04/2002 09:50	
1,2-Dichloropropane	ND	0.5	ug/L	11/04/2002 09:50	
Bromodichloromethane	ND	0.5	ug/L	11/04/2002 09:50	
2-Chloroethylvinyl ether	ND	0.5	ug/L	11/04/2002 09:50	
trans-1,3-Dichloropropene	ND	0.5	ug/L	11/04/2002 09:50	
cis-1,3-Dichloropropene	ND	0.5	ug/L	11/04/2002 09:50	
1,1,2-Trichloroethane	ND	0.5	ug/L	11/04/2002 09:50	
Tetrachloroethene	ND	0.5	ug/L	11/04/2002 09:50	
Dibromochloromethane	ND	0.5	ug/L	11/04/2002 09:50	
Chlorobenzene	ND	0.5	ug/L	11/04/2002 09:50	
Bromoform	ND	2.0	ug/L	11/04/2002 09:50	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	11/04/2002 09:50	
1,3-Dichlorobenzene	ND	0.5	ug/L	11/04/2002 09:50	
1,4-Dichlorobenzene	ND	0.5	ug/L	11/04/2002 09:50	
1,2-Dichlorobenzene	ND	0.5	ug/L	11/04/2002 09:50	
Trichlorotrifluoroethane	ND	0.5	ug/L	11/04/2002 09:50	
Chloromethane	ND	1.0	ug/L	11/04/2002 09:50	
Bromomethane	ND	1.0	ug/L	11/04/2002 09:50	
Surrogates(s)					
1-Chloro-2-fluorobenzene	92.9	70-130	%	11/04/2002 09:50	

Submission #: 2002-10-0554

Halogenated Volatile Organic Compounds by 8021

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Attn.: Aaron Stessman
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San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike

LCS 2002/11/03-01.25-002
LCSD 2002/11/03-01.25-003

Water

Extracted: 11/03/2002
Extracted: 11/03/2002

QC Batch # 2002/11/03-01.25

Analyzed: 11/03/2002 09:01
Analyzed: 11/03/2002 09:46

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	22.8	22.4	20.0	114.0	112.0	1.8	70-130	20		
Trichloroethene	20.6	19.5	20.0	103.0	97.5	5.5	70-130	20		
Chlorobenzene	23.7	22.0	20.0	118.5	110.0	7.4	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	23.9	22.5	20	119.5	112.5		70-130			

Submission #: 2002-10-0554

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Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/11/04-01.25

LCS 2002/11/04-01.25-002
LCSD 2002/11/04-01.25-003

Extracted: 11/04/2002
Extracted: 11/04/2002

Analyzed: 11/04/2002 08:12
Analyzed: 11/04/2002 09:01

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	24.1	23.0	20.0	120.5	115.0	4.7	70-130	20		
Trichloroethene	20.9	20.4	20.0	104.5	102.0	2.4	70-130	20		
Chlorobenzene	23.5	23.1	20.0	117.5	115.5	1.7	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	23.0	22.7	20	115.0	113.5		70-130			

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OW-1	10/24/2002 13:40	Water	1
OW-5	10/24/2002 12:55	Water	3
OW-6	10/24/2002 14:10	Water	4
OW-7	10/24/2002 14:45	Water	5

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030
5030

Test(s): 8015M
8021B

Sample ID: OW-1

Lab ID: 2002-10-0554 - 1

Sampled: 10/24/2002 13:40

Extracted: 10/28/2002 17:16

Matrix: Water

QC Batch#: 2002/10/28-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	770	250	ug/L	5.00	10/28/2002 17:16	g
Benzene	ND	2.5	ug/L	5.00	10/28/2002 17:16	
Toluene	ND	2.5	ug/L	5.00	10/28/2002 17:16	
Ethyl benzene	ND	2.5	ug/L	5.00	10/28/2002 17:16	
Xylene(s)	ND	2.5	ug/L	5.00	10/28/2002 17:16	
Surrogates(s)						
Trifluorotoluene	105.4	58-124	%	1.00	10/28/2002 17:16	
4-Bromofluorobenzene-FID	79.2	50-150	%	1.00	10/28/2002 17:16	

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030
5030

Test(s): 8015M
8021B

Sample ID: OW-5

Lab ID: 2002-10-0554 - 3

Sampled: 10/24/2002 12:55

Extracted: 10/28/2002 17:48

Matrix: Water

QC Batch#: 2002/10/28-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	10/28/2002 17:48	g
Benzene	6.0	0.50	ug/L	1.00	10/28/2002 17:48	
Toluene	ND	0.50	ug/L	1.00	10/28/2002 17:48	
Ethyl benzene	ND	0.50	ug/L	1.00	10/28/2002 17:48	
Xylene(s)	ND	0.50	ug/L	1.00	10/28/2002 17:48	
Surrogates(s)						
Trifluorotoluene	92.0	58-124	%	1.00	10/28/2002 17:48	
4-Bromofluorobenzene-FID	73.9	50-150	%	1.00	10/28/2002 17:48	

Submission #: 2002-10-0554

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95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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CA DHS ELAP# 2496

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	OW-6	Lab ID:	2002-10-0554 - 4
Sampled:	10/24/2002 14:10	Extracted:	10/28/2002 18:20
Matrix:	Water	QC Batch#:	2002/10/28-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/28/2002 18:20	
Benzene	ND	0.50	ug/L	1.00	10/28/2002 18:20	
Toluene	ND	0.50	ug/L	1.00	10/28/2002 18:20	
Ethyl benzene	ND	0.50	ug/L	1.00	10/28/2002 18:20	
Xylene(s)	ND	0.50	ug/L	1.00	10/28/2002 18:20	
<i>Surrogates(s)</i>						
Trifluorotoluene	103.0	58-124	%	1.00	10/28/2002 18:20	
4-Bromofluorobenzene-FID	77.8	50-150	%	1.00	10/28/2002 18:20	

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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Phone: (415) 457-9551 Fax: (415) 457-9261

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CA DHS ELAP# 2496

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	OW-7	Lab ID:	2002-10-0554 - 5
Sampled:	10/24/2002 14:45	Extracted:	10/28/2002 18:52
Matrix:	Water	QC Batch#:	2002/10/28-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	250	ug/L	5.00	10/28/2002 18:52	9
Benzene	ND	2.5	ug/L	5.00	10/28/2002 18:52	
Toluene	ND	2.5	ug/L	5.00	10/28/2002 18:52	
Ethyl benzene	ND	2.5	ug/L	5.00	10/28/2002 18:52	
Xylene(s)	ND	2.5	ug/L	5.00	10/28/2002 18:52	
<i>Surrogates(s)</i>						
Trifluorotoluene	86.6	58-124	%	1.00	10/28/2002 18:52	
4-Bromofluorobenzene-FID	70.2	50-150	%	1.00	10/28/2002 18:52	

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Method Blank

Water

QC Batch # 2002/10/28-01.05

MB: 2002/10/28-01.05-003

Date Extracted: 10/28/2002 09:23

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/28/2002 09:23	
Benzene	ND	0.5	ug/L	10/28/2002 09:23	
Toluene	ND	0.5	ug/L	10/28/2002 09:23	
Ethyl benzene	ND	0.5	ug/L	10/28/2002 09:23	
Xylene(s)	ND	0.5	ug/L	10/28/2002 09:23	
Surrogates(s)					
Trifluorotoluene	91.2	58-124	%	10/28/2002 09:23	
4-Bromofluorobenzene-FID	74.6	50-150	%	10/28/2002 09:23	

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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1220 Quarry Lane
Pleasanton, CA 94566
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Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/10/28-01.05

LCS 2002/10/28-01.05-004
LCSD 2002/10/28-01.05-005

Extracted: 10/28/2002
Extracted: 10/28/2002

Analyzed: 10/28/2002 09:55
Analyzed: 10/28/2002 10:27

Compound	Conc.		Exp.Conc.	Recovery		RPD	Ctrl.Limits %	Flags	
	LCS	LCSD		LCS	LCSD			Rec.	RPD
Benzene	94.8	97.7	100.0	94.8	97.7	3.0	77-123	20	
Toluene	95.9	99.9	100.0	95.9	99.9	4.1	78-122	20	
Ethyl benzene	97.8	104	100.0	97.8	104.0	6.1	70-130	20	
Xylene(s)	295	313	300	98.3	104.3	5.9	75-125	20	
Surrogates(s)									
Trifluorotoluene	517	542	500	103.4	108.4		58-124		

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/10/28-01.05

LCS 2002/10/28-01.05-006
LCSD 2002/10/28-01.05-007

Extracted: 10/28/2002
Extracted: 10/28/2002

Analyzed: 10/28/2002 11:00
Analyzed: 10/28/2002 11:32

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %	Flags	
	LCS	LCSD		LCS	LCSD			Rec.	RPD
Gasoline	500	520	500	100.0	104.0	3.9	75-125	20	
Surrogates(s) 4-Bromofluorobenzene-FID	439	450	500	87.8	90.0		50-150		

Submission #: 2002-10-0554

Gas/BTEX by 8015M/8021

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Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match
our gasoline standard.

Submission #: 2002-10-0554

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Total Lead

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
OW-2	10/24/2002 11:50	Water	2
OW-5	10/24/2002 12:55	Water	3
OW-8	10/24/2002 12:20	Water	6

Submission #: 2002-10-0554

**SEVERN
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Total Lead

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CA DHS ELAP# 2496

Prep(s): 3010A

Test(s): 6010B

Sample ID: OW-2

Lab ID: 2002-10-0554 - 2

Sampled: 10/24/2002 11:50

Extracted: 10/28/2002 08:00

Matrix: Water

QC Batch#: 2002/10/28-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	10/29/2002 12:00	

Submission #: 2002-10-0554

Total Lead

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CA DHS ELAP# 2496

Prep(s): 3010A

Test(s): 6010B

Sample ID: OW-5

Lab ID: 2002-10-0554 - 3

Sampled: 10/24/2002 12:55

Extracted: 10/28/2002 08:00

Matrix: Water

QC Batch#: 2002/10/28-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	10/29/2002 12:04	

Submission #: 2002-10-0554

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CA DHS ELAP# 2496

Prep(s): 3010A

Test(s): 6010B

Sample ID: OW-8

Lab ID: 2002-10-0554 - 6

Sampled: 10/24/2002 12:20

Extracted: 10/28/2002 08:00

Matrix: Water

QC Batch#: 2002/10/28-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	10/29/2002 12:25	

Submission #: 2002-10-0554

Total Lead

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1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3010A

Test(s): 6010B

Method Blank

Water

QC Batch # 2002/10/28-04.15

MB: 2002/10/28-04.15-024

Date Extracted: 10/28/2002 08:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.0050	mg/L	10/29/2002 10:41	

Submission #: 2002-10-0554

**SEVERN
TRENT
LABORATORY**

Total Lead

CSS Environmental Services

Attn.: Aaron Stessman
95 Belvedere Street, Suite 2
San Rafael, CA 94901
Phone: (415) 457-9551 Fax: (415) 457-9261

Project: 6118
PG& E Coliseum Way

Received: 10/25/2002 17:43

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3010A

Test(s): 6010B

Laboratory Control Spike

Water

QC Batch # 2002/10/28-04.15

LCS 2002/10/28-04.15-025
LCSD 2002/10/28-04.15-026

Extracted: 10/28/2002
Extracted: 10/28/2002

Analyzed: 10/29/2002 10:45
Analyzed: 10/29/2002 10:48

Compound	Conc.	mg/L	Exp.Conc.	Recovery		RPD	Ctrl.Limits %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	0.513	0.526	0.500	102.6	105.2	2.5	80-120	20		

Report To

Attn: Aaron Stessman

Company: CSS Environmental Services, Inc.

Address: 95 Belvedere St, #2 San Rafael, CA 94901

Phone: 415-457-9551 Email: cssenv@prodigy.net

Bill To:

Sampled By:

JS

Attn:

Phone:

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - □ 8015/8021 □ 8260B BTEX EPA - □ 8021 □ 8260B Gas w/ □ BTEX □ MTBE	Purgeable Aromatics BTEX EPA - □ 8021 □ 8260B	TEPH EPA 8015M □ Silica Gel Diesel □ Motor Oil □ Other —	Fuel Tests EPA 8260B: □ Gas □ BTEX □ Five Oxyanates □ DCA, EDB □ Ethanol	Purgeable Halocarbons (HVOCS) EPA 8021	Volatile Organics GC/MS (VOCs) □ EPA 8260B □ 624	Semivolatiles GC/MS □ EPA 8270 □ 625	Oil and Grease □ Petroleum (EPA 1664) □ Total	Pesticides □ EPA 8081 □ 608 PCBs □ EPA 8082 □ 608	PNAs by □ 8270 □ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: □ Lead □ LUFT □ RCRA □ Other —	W.E.T (STLC) □ TCLP	Hexavalent Chromium □ pH (24h hold time for H2O)	Spec Cond. □ Alkalinity □ TSS □ TDS	Anions: □ Cl □ SO4 □ NO3 □ F □ Br □ NO2 □ PO4	Number of Containers
OW-1	10/24/02	1340		X		X											4				
OW-2		1150															1				
OW-3																					
OW-5		1255				X	X	X									8				
OW-6		1410				X		X									7				
OW-7		1445				X		X									7				
OW-8		1220											X				1				

Project Info.

Sample Receipt

Project Name: PG&E Coliseum Way

of Containers:

Project #: 6118

Head Space:

PO#: 5.3 ° Couter
DSH 10.5 ° CLETemp: 5.3 ° Couter
DSH 10.5 ° CLE

Credit Card#: Conforms to record:

T A T Std 5 Day 72h 48h 24h Other:

Report: Routine Level 3 Level 4 EDD

Special Instructions / Comments:

1) Relinquished by:

Jabs L. S. b. 10/25/02

Signature

Time

Printed Name

Date

Company

2) Relinquished by:

Nuinkak

Signature

Time

Printed Name

Date

Company

3) Relinquished by:

Nuinkak

Signature

Time

Printed Name

Date

Company

1) Received by:

Nuinkak

Signature

Time

Printed Name

Date

Company

2) Received by:

Nuinkak

Signature

Time

Printed Name

Date

Company

3) Received by:

Nuinkak

Signature

Time

Printed Name

Date

Company

Sample Receipt Checklist

Submission #: 2002- 10 - 0554

Checklist completed by: (initials) NSA Date: 10/25/02

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes No Not Present

Chain of custody present?

Yes No

Chain of custody signed when relinquished and received?

Yes No

Chain of custody agrees with sample labels?

Yes No

Samples in proper container/bottle?

Yes No

Sample containers intact?

Yes No

Sufficient sample volume for indicated test?

Yes No

All samples received within holding time?

Yes No

Container/Temp Blank temperature in compliance ($4^{\circ}\text{C} \pm 2$)?

Temp: 5.3 $^{\circ}\text{C}$ Yes No

Water - VOA vials have zero headspace?

No VOA vials submitted Yes No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small -○), M (medium - ○) or L (large - O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc

For any item check-listed "No", provide detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ /02

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 10 - 24 - 02 Job No.: 6118

Site Location: PG + E Coliseum Way

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

 Other:

Weather/Visibility: (cool) / Cloudy

Notes:

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
OW-1		5.12	5.12	17.98	2'
OW-2		5.59	5.59	20.16	2"
OW-4					Covered
OW-5		5.82	5.82	19.85	2"
OW-6		6.18	6.18	17.11	2"
OW-7		7.57	7.57	18.00	2"
OW-8		4.31	4.31	17.78	2'

Measured by (Signature): _____

C S S

CSS ENVIRONMENTAL SERVICES, INC.

APPENDIX B

Historical Monitoring Data

Historical Groundwater Analytical Data

7000 7000

Notes:

1) MCL = Maximum

21 • EPA MCJ

3) Σ = MCL for sum of four compounds

4) ∞ = MCL for sum of all xylenes isomers

5) *** = MCL for sum of trans- and chs-1.

6) ND = Not Detected at or above MDL.

7) Purgeable Halocarbons (EPA method 8010)

6) Purgeable Aromatics (EPA method 8020)

9) NA = Not Analyzed or analysis not required

10) 8/17/02 Samples analyzed for VOCs out of 1

Historical Groundwater Analytical Data

Well ID Date	MCL ug/l.	OW-2 Apr-88	OW-2 Oct-89	OW-2 Jan-90	OW-2 Apr-90	OW-2 Jul-90	OW-2 Oct-90	OW-2 Jan-91	OW-2 Apr-91	OW-2 Jul-91	OW-2 Dec-91	OW-2 Mar-92	OW-2 Jul-92	OW-2 Oct-92	OW-2 Jan-93	OW-2 Apr-93	OW-2 Jul-93	OW-2 Oct-93	OW-2 Jan-94	OW-2 Apr-94	OW-2 Jul-94	OW-2 Jun-95	OW-2 Jun-96	OW-2 Oct-96	OW-2 Apr-Jun-97	OW-2 Dec-97	OW-2 Jun-98	OW-2 Jun-99	OW-2 Dec-99	OW-2 Jun-00	OW-2 Jun-01	OW-2 Jun-02	OW-2 Oct-02	
PURGEABLE HALOCARBONS																																		
Chloromethane		ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Bromomethane		ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Vinyl chloride	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Chloroethane		ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Methylene Chloride	58	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Trichloromethane	150	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,1-Dichloroethene	8	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,1,1-Dichloroethane	5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
cis-1,2-Dichloroethene	6	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA																							
trans-1,2-Dichloroethene	10	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Chloroform	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Freon 113	1200	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA																							
1,2-Dichloroethane	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,1,1-Trichloroethane	200	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Carbon Tetrachloride	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Bromo-dichloromethane	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,2-Dichloropropane	5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
cis-1,3-Dichloropropene	5**	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
trans-1,3-Dichloropropene	5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,1,2-Trichloroethane	52	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,2,2,2-Tetrachloroethane	52	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Dibromo-dichloromethane	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
2-Chloroethyl-Vinyl Ether		ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Bromform	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Tetra-chloroethane	5	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,1,2,2-Tetrachloroethane	1	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
Chlorobenzene	30	ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,3-Dichlorobenzene		ND	NA	NA	NA	NA	NA	NA	NA	NA																								
1,2-Dichlorobenzene	800*	NA	NA	NA	NA	NA	NA	NA	NA																									
Total Xylenes	1750**	ND	0.4	0.8	ND	NA	NA	NA	NA	NA	NA	NA	NA																					
TOTAL VDCs		NA	NA	1.2	1.4	NA	NA	NA	0.53	NA	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA														
HYDROCARBONS																																		
TVH-g		NA	NA	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA									
TEPH-d	< 1000	< 1000	130	140	88	80	< 50	< 200	< 50	650	670	410	410	820	NA	NA	NA	NA	NA	NA	NA	NA												
DiG	16000	16000	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	NA	NA																		
TPH (418.1)	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	NA	NA																	
METALS		Lead	0	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND																				
Notes:																																		
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise.)																																		
2) # = EPA MCL																																		
3) * = MCL for sum of four compounds																																		
4) ** = MCL for sum of all xyrene isomers																																		
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene																																		
6) ND = Not Detected at or above MDL																																		
7) Purgeable Halocarbons (EPA method 8010)																																		
8) Purgeable Aromatics (EPA method B020)																																		
9) NA = Not Analyzed or analysis not required																																		
10) 6/17/02 Samples analyzed for VDCs out of holding time due to laboratory error																																		

Historical Groundwater Analytical Data

Well ID Date	MCL ug/L	OW-4 Jun-88	OW-4 Oct-89	OW-4 Jan-90	OW-4 Apr-90	OW-4 Jul-90	OW-4 Oct-90	OW-4 Jan-91	OW-4 Apr-91	OW-4 Jul-91	OW-4 Dec-91	OW-4 Mar-92	OW-4 Jul-92	OW-4 Jan-93	OW-4 Apr-93	OW-4 Jul-93	OW-4 Oct-93	OW-4 Jan-94	OW-4 Jul-94	OW-4 Jun-95	OW-4 Nov-95	OW-4 Jun-96	OW-4 Oct-96	OW-4 Apr-Jun-97	OW-4 Dec-97	OW-4 Jul-98	OW-4 Dec-98	OW-4 Jun-99	OW-4 Nov-99	OW-4 Jun-00	OW-4 Nov-00	OW-4 Jun-01	OW-4 Nov-01	OW-4 Jun-02
PURGEABLE HALOCARBONS																																		
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Vinyl chloride	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Methylene Chloride	5*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Trichlorofluoromethane	150	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,1-Dichloroethene	6	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,1-Dichloroethane	3	ND	ND	ND	ND	ND	ND	3	8.1	8.4	7	4	4	3	NA	NA	NA	NA	NA	NA	NA	NA												
cis-1,2-Dichloroethene	6	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																						
trans-1,2-Dichloroethene	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Chloroform	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Freon 113	1200	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																						
1,2-Dichloroethene	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,1,1-Trichloroethane	200	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Carbon Tetrachloride	0.5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Bromodichloromethane	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,2-Dichloropropane	6	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
cis-1,3-Dichloropropene	5***	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Trichloroethene	5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,1,2-Trichloroethane	32	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
trans-1,3-Dichloropropene	5***	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Dibromoethane	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
2-Chloroethylmercapt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
Bromoform	100*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Tetrachloroethene	5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,1,2,2-Tetrachloroethane	1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Chlorobenzene	30	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA										
1,4-Dichlorobenzene	600*	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
Total VOCs	NA	NA	0.8	3.4	NA	NA	3	8.59	9.4	NA	7.7	4	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA											
HYDROCARBONS																																		
TV-Hg	NA	NA	<50	<50	<50	<50	<50	NA	NA	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
TEPH-d	<1000	<1000	150	210	150	150	<50	500	<50	2000	2100	820	1300	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
C8G	<5000	NA	<5000	<5000	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
TPH (418.1)	NA	NA	<5000	<5000	<5000	<5000	<500	NA	NA	NA	NA	NA	NA	NA	NA	NA																		
METALS																																		
Lead	0	NA	ND	NA	ND	S	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																

Notes:

- 1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise.)
- 2) ND = EPA MCL
- 3) * = MCL for sum of four compounds
- 4) ** = MCL for sum of all xylene isomers
- 5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
- 6) ND = Not Detected at or above MDL
- 7) Purgeable Halocarbons (EPA method 8010)
- 8) Purgeable Aromatics (EPA method 8020)
- 9) NA = Not Analyzed or analysis not required
- 10) 8/17/02 Samples analyzed for VOCs out of holding time due to laboratory error

Historical Groundwater Analytical Data

Well ID Date	MCL ug/l	OW-5 Apr-81	OW-5 Jul-81	OW-5 Dec-81	OW-5 Mar-82	OW-5 Jul-82	OW-5 Oct-82	OW-5 Jan-83	OW-5 Jul-83	OW-5 Oct-83	OW-5 Jan-84	OW-5 Apr-84	OW-5 Jul-84	OW-5 Jun-85	OW-5 Nov-85	OW-5 Jun-86	OW-5 Oct-86	OW-5 Apr-Jun-87	OW-5 Dec-87	OW-5 Jun-88	OW-5 Jun-89	OW-5 Nov-89	OW-5 Jun-90	OW-5 Nov-90	OW-5 Jun-91	OW-5 Nov-91	OW-5 Jun-92	OW-5 Oct-92			
PURGEABLE HALOCARBONS																															
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Bromomethane	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Vinyl chloride	0.5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	1.1	ND	ND	ND															
Chloroethane	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Methylene Chloride	56	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Tetrafluoromethane	150	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,1-Dichloroethene	8	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,1-Dichloroethane	5	1.8	7.2	ND	4	8	13	5	8	NA	2	NA	4	3.2	7.9	2.5	8.9	5.3	2.8	1	2.5	3	2.5	2.2	2.8	1.4	2.7	1.1	2.4		
cis-1,2-Dichloroethene	8	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
trans-1,2-Dichloroethene	10	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Chloroform	100*	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Freon 113	1200	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,2-Dichloroethane	0.5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,1,1-Trichloroethane	200	6	28	16	12	25	28	7	7	NA	2	NA	3	1.3	2.1	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachlorene	0.5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Bromoform	100*	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
cis-1,3-Dichloropropane	5**	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Trichloroethene	5	0.75	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,1,2-Trichloroethene	32	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
trans-1,3-Dichloropropene	5***	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Dibromochloromethane	100*	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND								
Bromofom	100*	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Tetrachloroethene	5	0.7	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,1,2,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Chlorobenzene	30	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,2-Dichlorobenzene	600*	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
PURGEABLE AROMATICS																															
Benzene	1	14	20	11	15	11	13	28	14	NA	21	NA	11	11	15	18	3.8	15	ND	7.3	8.2	11	8.3	10	7.7	13	6.3	6.0			
Toluene	1000*	0.54	ND	ND	1.1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Ethylbenzene	880	0.98	ND	ND	0.8	ND	0.7	ND	NA	0.7	NA	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Total Xylenes	1750**	5.8	4	6.9	5.1	6	3.8	13	2.4	NA	9.2	NA	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL VOCs	28.97	57.2	35.9	37.8	50	57.6	51.7	28.4	34.8	NA	19.9	4.5	88	17.5	26.2	9.1	20.84	1	11.8	12	14.4	8.5	14.35	9.8	18.26	7.4	8.4				
HYDROCARBONS																															
TVH-g	NA	NA	NA	NA	120	270	160	350	140	NA	370	NA	110	ND	ND	ND	ND	ND	ND	83	ND	ND	50	ND	ND	79	100	ND	57		
TEPH-d	800	1500	1200	840	850	1000	1000	1600	NA	510	NA	1300	510	1600	830	670	740	900	830	780	830	800	ND	ND	540	130	260	470	NA	NA	NA
CIG	NA	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA														
THF (418.1)	< 500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
METALS																															
Lead	0	ND	NA	NA	ND	7.3	7.4	6	ND	ND	ND	ND	5	ND	ND																

- Notes:
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 - 2) # = EPA MCL
 - 3) * = MCL for sum of four compounds
 - 4) ** = MCL for sum of all xylene isomers
 - 5) *** = MCL for sum of trans- and cis-1,3-Dichloropropane
 - 6) ND = Not Detected at or above MDL
 - 7) Purgeable Halocarbons (EPA method 8010)
 - 8) Purgeable Aromatics (EPA method 8020)
 - 9) NA = Not Analyzed or analysis not required
 - 10) 6/17/02 Samples analyzed for VOCs out of holding time due to laboratory error

Historical Groundwater Analytical Data

ROUTE 4050

METALS

Note:

1) MCL = Maximum

2) B = EPA MCL

3) * = MCL for sum of four compounds

4) $\Sigma = \text{MCL for sum of all xylene isomers}$

5) --- = MCL for sum of trans- and cis-1,3-Dichloropropane

3) Remaining Unknowns (EPA method 8010D)

① Purgeable Ammonium (EPA method 8010)

B) Not Analyzed or analysis not required

10) B/17/02 Samples analyzed for VOCs out of 1

12, 2012 (version 1.0) 10:00 AM

Historical Groundwater Analytical Data

Well ID Date	MCL ug/L	DW-7																									
		Dic-91	Mar-92	Jul-92	Oct-92	Jan-93	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Oct-95	Nov-95	Jun-96	Oct-96	Apr-Jun-97	Dec-97	Jun-98	Dec-98	Jun-99	Nov-99	Jun-00	Nov-00	Jun-01	Nov-01	Jun-02	Oct-02
PURGEABLE HALOCARBONS																											
Chloromethane	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Bromomethane	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Vinyl chloride	0.5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chloroethane	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Methylene Chloride	54	14	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Trichloroform	150	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,1-Dichloroethene	8	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,1-Dichloroethene	5	ND	18	ND	ND	25	HA	14	NA	8	5.5	26	6.5	4.5	4.5	4.1	5.7	ND									
cis-1,2-Dichloroethene	6	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
trans-1,2-Dichloroethene	10	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chloroform	100*	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
From 113	1200	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,2-Dichloroethane	0.5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,1,1-Trichloroethane	200	10	466	29	80	530	NA	73	NA	78	28	33	41	18	6.6	7.9	31	5.9	5.6	ND							
Carbon Tetrachloride	0.5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Bromodichloromethane	100*	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
cis-1,3-Dichloropropene	5**	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Trichloroethene	5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,1,2-Trichloroethane	32	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
trans-1,3-Dichloropropene	5***	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Dibromoethermethane	100*	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND								
Bromoform	100*	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Tetrachloroethene	5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
1,1,2,2-Tetrachloroethene	1	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chlorobenzene	30	10	ND	ND	6	ND	NA	28	NA	21	24	12	34	25	31	25	46	27	31	34	36	18	39	27	26	46	74
1,2-Dichlorobenzene	460	138	428	330	170	NA	540	NA	450	570	270	400	380	440	280	360	340	360	420	330	220	330	320	260	420	630	
1,2-Dichlorobenzene	600*	120	22	85	77	NA	470	NA	78	100	280	81	82	74	410	530	450	470	580	410	310	470	510	380	500	950	
1,4-Dichlorobenzene	5	440	120	400	280	160	NA	110	NA	410	540	51	480	500	580	410	530	450	470	580	410	310	470	510	380	500	
PURGEABLE AROMATICS																											
Benzene	1	ND	0.8	1	1.4	0.8	NA	1.5	NA	1.8	1.2	1.1	ND	ND	0.68	1.6	0.88	0.88	0.84	0.62	ND	0.83	ND	ND	ND	ND	
Toluene	1000*	ND	0.6	0.5	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Ethylbenzene	800	ND	ND	0.5	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	70	ND										
Total Xylenes	1750**	ND	2.1	5	ND	ND	NA	ND	NA	4.2	ND	ND	ND	ND	ND	1.1	ND										
TOTAL VOCs	1054	761.5	951	765.4	818.8	NA	1287.6	NA	1045.6	1263.2	881.5	1118.2	981.5	764.76	1108.5	877.95	926.95	1101.8	888.92	592	888.83	898	701	1035	1774		
HYDROCARBONS																											
TVH-g	NA	700	1300	1400	720	NA	1500	NA	1400	1800	650	980	1200	1500	1100	1900	1000	1100	1200	1100	980	1100	1200	530	1000	1300	
TEPH-d	7100	4400	2800	3800	2300	NA	4800	NA	4500	4800	1800	4400	4800	4800	2800	2100	2800	3800	3600	2400	430	370	1100	580	1000	1700	
OG	<5000	<5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA														
TPH (418.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
METALS																											
Lead	0	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											

Notes:

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- 3) ** = MCL for sum of four compounds
- 4) *** = MCL for sum of all xylenes isomers
- 5) **** = MCL for sum of trans- and cis-1,3-Dichloropropene
- 6) ND = Not Detected at or above MDL
- 7) Purgeable Halocarbons (EPA method 8010)
- 8) Purgeable Aromatics (EPA method 8020)
- 9) NA = Not Analyzed or analysis not required
- 10) 8/17/02 Samples analyzed for VOCs out of holding time due to laboratory error

Historical Groundwater Analytical Data

Well ID Date	DW-8 Apr-83	DW-8 Jul-83	DW-8 Oct-83	DW-8 Jan-84	DW-8 Apr-84	DW-8 Jul-84	DW-8 Jun-85	DW-8 Nov-85	DW-8 Jun-86	DW-8 Oct-86	DW-8 Apr-Jun-87	DW-8 Dec-87	DW-8 Jun-88	DW-8 Dec-88	DW-8 Jun-89	DW-8 Jun-90	DW-8 Nov-90	DW-8 Jun-01	DW-8 Jun-02	DW-8 Jun-02	
PURGEABLE HALOCARBONS																					
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Fraen 113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
cis-1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
2-Chloroethyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Tetachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
TOTAL VOCs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
HYDROCARBONS																					
TVH-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
TEPH-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
O&G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
TPH (418.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
METALS																					
Lead	27	17	ND	25	12	24	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Note:

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- 5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
- 6) ND = Not Detected at or above MDL
- 7) Purgeable Halocarbons (EPA method 2010)
- 8) Purgeable Aromatics (EPA method 2020)
- 9) NA = Not Analyzed or analysis not required
- 10) 6/17/02 Samples analyzed for VOCs out of holding time due to laboratory error