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May 3, 2004

Norman Shopay  
Project Manager  
California Department of Toxic Substances Control  
Geology and Corrective Action Branch  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

Subject: First Quarter 2004 Groundwater and Surface Water Monitoring Report  
Corrective Action Consent Agreement for Bat Cave Wash Area  
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

Enclosed is the First Quarter 2004 groundwater and surface water monitoring report for the Topock project. The monitoring event was conducted by PG&E during March 15-19, 2004, and included monitoring and sampling of 35 groundwater wells and 9 surface water locations along the Colorado River. If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 546-5243.

Sincerely,

*Temi Hesson  
for Yvonne Meeks*

Enclosure:  
Groundwater and Surface Water Monitoring Report, First Quarter 2004

cc: CWG Members

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*Final Report*

**Groundwater and Surface Water  
Monitoring Report, First Quarter 2004**

**Topock Compressor Station  
Needles, California**

Prepared for  
**Pacific Gas and Electric Company**

May 3, 2004

**CH2MHILL**

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# 1.0 Background

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This report presents the results of the first quarter 2004 groundwater and surface water quarterly monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station during March 2004. The Topock groundwater and surface water monitoring program (GMP) is part of a RCRA Facility Investigation (RFI) being performed under a Corrective Action Consent Agreement (CACA) issued by the California Department of Toxic Substances Control (DTSC) in 1996 for the Topock site (EPA ID No. CAT080011729). The Topock Compressor Station is located in eastern San Bernardino County, 15 miles southeast of the city of Needles, California.

Under the current 2004 GMP, samples are collected from groundwater wells and surface water stations according to the following schedule:

- Thirty-five groundwater wells and nine surface water stations are sampled quarterly.
- Three inactive supply wells are sampled every two years (December events).
- Twelve groundwater wells and nine surface water stations are sampled monthly.
- Six groundwater wells are sampled weekly.

Figure 1 shows the PG&E Topock Compressor Station and the groundwater wells and surface water stations in the GMP. Figure 1 also indicates the frequency of sampling for each groundwater well and surface water station in the GMP.

The groundwater and surface water monitoring activities were initiated in 1998 as a continuation of the RFI groundwater investigations. The wells and surface water monitoring locations are sampled for the site constituents of concern (COCs) defined in the 1996 CACA. The site COCs are hexavalent chromium [Cr(VI)], total chromium [Cr(T)], copper, nickel, zinc, electrical conductivity (also referred to as specific conductance), and pH. Groundwater/surface water elevation data and field water quality data are measured during monitoring events.

## 2.0 First Quarter 2004 Monitoring Activities

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### 2.1 Summary of Monitoring and Sampling

The first quarterly monitoring event for 2004 was conducted from March 15 through March 19, 2004 and included all 35 groundwater wells and surface water stations in the quarterly monitoring program. In addition, during the first quarter 2004, two monthly sampling events and seven weekly sampling events were conducted. The results of the weekly and monthly monitoring events performed during the first quarter 2004 have already been submitted in the form of weekly to biweekly data transmittals. For completeness, this report includes the weekly and monthly data; however, only the data from the quarterly sampling event will be discussed.

The specific methods, procedures, and field documentation of the GMP sampling and water level and field water quality monitoring were performed in accordance with PG&E's *Sampling and Analysis Plan for September 2003 Quarterly Groundwater Monitoring* (Sampling Plan) dated September 4, 2003 (PG&E 2003a). In February 2004, a supplement to the Sampling Plan was prepared and implemented to provide for a comparison of the groundwater sampling methods used for the monitoring wells in the floodplain area of the site (PG&E 2004). Following this comparison, the well-volume sampling method was used for the GMP sampling of the monitoring wells in the floodplain.

## 3.0 March 2004 Quarterly Monitoring Results

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### 3.1 Sampling and Analyses

During the March 2004 quarterly monitoring event, the groundwater and surface water samples for site COC analyses were collected in containers provided by the laboratory and were labeled and packaged according to standard sampling procedures. Duplicate samples were collected from monitoring wells MW-13, MW-24A, MW-25, and MW-30-50 to assess field sampling and analytical procedures. Samples were stored in a cooler at 4 degrees Celsius and transported under chain-of-custody documentation to California-certified Truesdail Laboratories, Inc. in Tustin, California).

In accordance with the September 2003 Sampling Plan, Cr(VI) was analyzed in the water samples using two analytical methods:

- Method SW 7196A was used for samples collected from monitoring wells where prior monitoring has detected Cr(VI) concentrations above 0.010 milligrams per liter (mg/L). The minimum reporting limit for Method 7196A for undiluted samples is 0.010 mg/L.
- Method SW 7199 was used for all surface water samples and all groundwater samples collected from monitoring wells where prior monitoring has not detected Cr(VI) concentrations above 0.010 mg/L. The minimum reporting limit for Cr(VI) using Method SW 7199 is 0.0002 mg/L for undiluted samples.
- Dissolved Cr(T) was analyzed using Method SW 6010B (reporting limit of 0.001 mg/L for undiluted samples).

### 3.2 Groundwater Analytical Results

Table 1 presents the results of site COC analyses from the March 2004 quarterly monitoring event and historical data during the past year of monitoring. The original laboratory reports and maintained in the project file and are available upon request.

The maximum Cr(T) and Cr(VI) concentrations detected in the groundwater samples from well MW-20-70 during the quarterly event were 9.77 mg/L and 11.2 mg/L, respectively, consistent with prior monitoring. For wells in the river floodplain area, Cr(VI) was detected in the groundwater samples from three of the 12 monitoring wells located in that area (wells MW-30-50, MW-33-90, and MW-34-80). The primary groundwater sample from well MW-30-50 contained concentrations of Cr(T) and Cr(VI) at 1.41 and 1.65 mg/L, respectively. The groundwater samples from MW-33-90 contained concentrations of Cr(T) and Cr(VI) at 0.0114 and 0.0155 mg/L, respectively. The groundwater samples collected from well MW-34-80 during the March 2004 quarterly event contained concentrations of Cr(T) and Cr(VI) at 0.006 and 0.0057 mg/L, respectively.

### 3.3 Surface Water Analytical Results

Nine surface water locations were sampled for the site COCs during the March 2004 quarterly event (Figure 1). Table 2 presents the results of the March 2004 surface water sampling and historical data during the past year of monitoring. Total dissolved chromium was detected at concentrations of 0.0016 and 0.0011 mg/L in surface water samples collected at locations RRB and R-22 (Figure 1). Cr(VI) was not detected in any of the samples collected at the nine surface water stations sampled during the March 2004 quarterly event.

### 3.4 Presentation of Hexavalent Chromium Sampling Results

Figure 2 presents the Cr(VI) results distribution from the March 2004 quarterly monitoring event of the GMP monitoring wells and surface water locations. Figure 2 also shows the approximate outline of Cr(VI) in groundwater greater than 0.050 mg/L (the California drinking water standard for total chromium) based on the March 2004 quarterly sampling results.

### 3.5 Analytical Data Quality Review

The laboratory analytical data generated from the March 2004 quarterly monitoring event and all other GMP sampling data generated during the first quarter 2004 were independently reviewed by project chemists to assess data quality and identify deviations from analytical requirements. Detailed discussion of data quality for GMP sampling data are presented in the data validation reports, which are kept in the project file and are available upon request. The results of the March 2004 data quality review are summarized below.

No significant analytical deficiencies were identified in the March 2004 monitoring data, and none of the results from this event was qualified as unusable. With minor exceptions, the analyses and data quality meet the laboratory method quality control acceptance criteria. Minor exceptions are noted below. Overall, the analytical data for the March 2004 quarterly monitoring event are considered acceptable for the intended purpose of monitoring groundwater and surface water conditions at the site.

**Matrix Interference:** Matrix interference was encountered in groundwater samples from selected floodplain monitoring wells that affected the sensitivity for Cr(VI) analyses by Method SW 7199. Some of the results from these wells reflect adjusted reporting limits (see Table 1) as a result of serial dilutions required to overcome matrix interference and provide acceptable matrix spike recoveries.

**Holding Time Data Qualification:** Several groundwater samples collected during the March 2004 event exhibited matrix interferences which required multiple analyses to meet acceptance criteria. Due to the re-analyses, the Cr(VI) results for the groundwater samples from MW-21, MW-23, MW-24BR, and MW-32-20 are qualified as estimated concentrations (J qualifier) because the final analyses were performed approximately 1 hour beyond the recommended 24-hour analysis holding time for Method SW 7199. The reporting limit for surface water sample NR-3 was also qualified as an estimated concentration (J qualifier) because the Cr(VI) holding time had been exceeded by several minutes.

**Sample Dilution Data Qualification:** Matrix effects were identified in three groundwater samples (MW-22, MW-24BR, MW-30-30) that required sample dilution and re-analyses to meet acceptance criteria. Accordingly, the Cr(VI) reporting limits for detection were raised for these samples due to the required sample dilution for matrix effects.

**Field Blank Data Qualification:** Dissolved chromium and zinc were detected in one equipment blank above their respective reporting limits. The chromium and/or zinc results of associated groundwater samples MW-27, MW-28, MW-34-55, and MW-34-80 that were less than five times the concentration detected in the equipment blank were qualified as non-detected at the field blank concentration.

## 3.6 Water Level Measurements

Prior to conducting the March 2004 quarterly sampling activities, water level elevations were measured on March 15, 2004 in all groundwater wells and surface water gauging stations in the GMP (Figure 1). Table 3 lists the water level measurements and groundwater and surface water elevations collected during the March 2004 quarterly event and data from the previous monitoring events. Table 3 also lists water salinity data for the wells where water level data were measured. Groundwater salinity during this monitoring event ranged from 0 percent (well MW-27) to a maximum of 3.2 percent (well MW-30-30), consistent with prior monitoring. Because of the density differences in groundwater due to salinity variations, the groundwater elevations measured in the GMP wells have been adjusted, or normalized, to a freshwater standard (Table 3).

Because the data were collected manually over a 3-hour period, it was not possible to account for the fluctuations in river stage that occurred during the measurement period. As such, these data cannot be used to determine hydraulic gradients between measured points. Beginning in March 2004, a network of more than 20 pressure transducers (primarily in wells monitoring the floodplain area) is being used to collect continuous records of water elevation data in the alluvial aquifer and river. Analysis of these data will provide an assessment of water level elevations at common points in time, and thus will allow for the calculation of hydraulic gradients.

## 3.7 Field Parameter Data

A field parameter meter and flow-through cell were used to measure water quality parameters during well purging and groundwater sampling. The field parameters measured are specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen. Table 4 summarizes the field water quality data measured during the March 2004 quarterly event and prior quarterly monitoring events.

## 4.0 Upcoming Monitoring Activities

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### 4.1 Quarterly Monitoring

The second quarter 2004 groundwater monitoring event is scheduled for mid-June 2004. The scope of analyses and field data collection will follow the September 2003 Sampling Plan (PG&E 2003a). The list of wells and surface water locations to be monitored during the second quarter 2004 event will be consistent with Figure 1. A groundwater monitoring report for the upcoming second quarter 2004 event will be prepared and submitted approximately 6 weeks after sampling.

### 4.2 Monthly Monitoring

At the DTSC's request, beginning in November 2003, PG&E has conducted monthly sampling of selected monitoring wells in the Colorado River floodplain for more frequent monitoring of water quality in this area of the site. The scope and rationale for the monthly well sampling activity is described in a supplemental sampling plan, which was included as an attachment to the third quarter 2003 groundwater monitoring report (PG&E 2003b). Requirements for the monthly monitoring activity were further modified to include surface water monitoring, as specified in DTSC's letter to PG&E dated February 9, 2004 (DTSC 2004a). The 12 wells and nine surface water locations in the monthly monitoring program were sampled between April 13 and 16, 2004 and are scheduled for sampling in May, July, August, October, and November 2004.

### 4.3 Weekly Well Sampling

At DTSC's request, beginning January 29, 2004, PG&E has conducted weekly sampling of six selected monitoring wells in the floodplain as part of the interim measures program (DTSC 2004b). The duration of the weekly well sampling was not specified in the DTSC request letter. The weekly sampling of selected floodplain monitoring wells will continue in the near-term, pending DTSC direction.



## 5.0 References

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California Department of Toxic Substances Control (DTSC). 2004a. Letter to PG&E. "Request for Interim Measure Work Plan No. 2, Pacific Gas & Electric Company, Topock Compressor Station." February 9.

\_\_\_\_\_. 2004b. Letter to PG&E. "Request for Interim Measure Work Plan, Pacific Gas & Electric Company, Topock Compressor Station." January 22.

Pacific Gas and Electric Company. 2003a. *Sampling and Analysis Plan for September 2003 Quarterly Groundwater Monitoring, PG&E Topock Project*. September 4.

\_\_\_\_\_. 2003b. *Groundwater and Surface Water Monitoring Report, Third Quarter 2003, PG&E Topock Compressor Station*. October 24.

\_\_\_\_\_. 2004. *Sampling Plan Addendum for Evaluating Monitoring Well Sampling Methods, February 2004 Groundwater Monitoring Event, PG&E Topock Project*. February 13.

## **Tables**

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**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-09</b>	17-Sep-02	0.36	0.401	ND <0.0555	ND <0.0056	0.248	---	---
	10-Dec-02	0.402	0.428	ND <0.02	ND <0.0278	0.255	---	---
	18-Mar-03	0.368	0.357	0.015	ND <0.0278	0.363	---	---
	12-Jun-03	0.343	0.349	ND <0.01	0.03	0.361	3,690	7.65
	11-Sep-03	0.376	0.34	0.017	ND <0.0261	0.14	3,260	7.49
	12-Dec-03	0.357	0.46	ND <0.01	ND <0.02	0.025	3,490	7.56
	16-Mar-04	0.342	0.297	0.014	ND <0.02	0.072	3,150	7.5
<b>MW-10</b>	17-Sep-02	2.07	2.33	ND <0.02	0.014	0.177	---	---
	10-Dec-02	1.93	2.15	ND <0.02	ND <0.0278	0.119 J	---	---
	10-Dec-02 <b>FD</b>	1.97	1.79	ND <0.02	ND <0.0278	0.2 J	---	---
	18-Mar-03	1.64	1.47	ND <0.011	ND <0.0278	0.637	---	---
	12-Jun-03	1.65	1.75	ND <0.01	ND <0.0261	0.445	4,280	7.75
	11-Sep-03	1.92	1.75	ND <0.011	ND <0.0261	0.093	3,330	7.6
	12-Dec-03	1.92	4.2	ND <0.01	ND <0.02	0.025	3,260	7.68
16-Mar-04	1.35	1.11	ND <0.01	ND <0.02	0.064	3,700	7.79	
<b>MW-11</b>	17-Sep-02	0.408	0.483	ND <0.0278	0.016	0.443 J	---	---
	17-Sep-02 <b>FD</b>	0.409	0.467	ND <0.0278	ND <0.0056	0.208 J	---	---
	10-Dec-02	0.584	0.696	ND <0.02	ND <0.0278	0.176	---	---
	18-Mar-03	0.463	0.452	ND <0.011	ND <0.0278	0.329	---	---
	12-Jun-03	0.429	0.453	ND <0.01	0.0203 J	0.399	2,930	7.93
	12-Jun-03 <b>FD</b>	0.415	0.435	ND <0.01	ND <0.0261	0.45	2,670	7.62
	11-Sep-03	0.412	0.376	ND <0.011	ND <0.0261	0.063	2,440	7.52
	12-Dec-03	0.566	0.772	ND <0.01	ND <0.02	ND <0.02	2,450	7.51
16-Mar-04	0.432	0.358	ND <0.01	ND <0.02	0.069	2,520	7.48	
<b>MW-12</b>	18-Sep-02	1.16	1.31	ND <0.0278	ND <0.0056	0.085	---	---
	11-Dec-02	1.25	1.61	ND <0.02	ND <0.0278	0.069	---	---
	20-Mar-03	1.28	1.1	ND <0.011	ND <0.0278	0.54 J	---	---
	20-Mar-03 <b>FD</b>	1.26	1.19	ND <0.011	ND <0.0278	0.284 J	---	---
	11-Jun-03	1.28	1.08	ND <0.01	ND <0.0261	0.121	4,250	8.42
	09-Sep-03	1.31	1.24	ND <0.011	ND <0.0261	ND <0.0261	4,040	8.34
	10-Dec-03	1.39	1.72	ND <0.01	ND <0.02	ND <0.02	4,130	8.39
16-Mar-04	1.33	1.24	ND <0.01	ND <0.02	0.095	4,270	8.4	

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (μS/cm)	pH
<b>MW-13</b>	17-Sep-02	0.0183	0.0345	ND <0.02	0.012	0.171	---	---
	10-Dec-02	0.0229	0.029	ND <0.02	ND <0.0278	0.172	---	---
	21-Mar-03	0.0231	0.023	ND <0.011	ND <0.0278	0.345	---	---
	12-Jun-03	0.0159	0.18	ND <0.01	0.168	0.451	2,410	7.88
	12-Sep-03	0.0196	0.0272	ND <0.011	ND <0.0261	0.26 J	2,070	7.6
	12-Sep-03 FD	0.0196	0.0184	ND <0.011	ND <0.0261	0.108 J	2,060	7.63
	12-Dec-03	0.024	0.0177	ND <0.01	ND <0.02	0.031	2,070	7.65
	12-Dec-03 FD	0.0264	0.0174	ND <0.01	ND <0.02	0.026	2,070	7.64
	17-Mar-04	0.0197	0.0177	ND <0.01	ND <0.02	0.0828 J	2,130	7.56
	17-Mar-04 FD	0.0197	0.0163	ND <0.01	ND <0.02	0.133 J	2,120	7.57
<b>MW-14</b>	18-Sep-02	0.031	0.0326	ND <0.02	0.022	0.164	---	---
	10-Dec-02	0.049	0.0484	ND <0.02	0.029	0.498	---	---
	21-Mar-03	0.0473	0.0365	ND <0.011	ND <0.0278	0.3 J	---	---
	21-Mar-03 FD	0.0484	0.0367	ND <0.011	ND <0.0278	0.105 J	---	---
	12-Jun-03	0.0306	0.0309	ND <0.0104	0.0397 J	0.244	1,720	7.98
	11-Sep-03	0.0473	0.0324	ND <0.011	ND <0.0261	0.045	1,553	7.76
	12-Dec-03	0.0445	0.0293	ND <0.01	ND <0.02	0.036	1,550	7.8
	16-Mar-04	0.0436	0.0268	ND <0.01	ND <0.02	0.058	1,550	7.79
<b>MW-15</b>	10-Dec-02	0.0229	0.0194	ND <0.02	ND <0.0278	0.419	---	---
	18-Mar-03	0.0294	0.0209	ND <0.011	ND <0.0278	0.276	---	---
	12-Jun-03	0.0111	0.013	ND <0.01	ND <0.0261	0.22	1,780	7.85
	11-Sep-03	0.0208	0.0116	ND <0.011	ND <0.0261	0.053	1,273	7.81
	12-Dec-03	0.0131	0.0082	ND <0.01	ND <0.02	0.037	1,380	7.81
	16-Mar-04	0.0164	0.0079	ND <0.01	0.028	0.053	1,700	7.69
<b>MW-16</b>	10-Dec-02	0.0198	0.0234	ND <0.02	ND <0.0278	0.191	---	---
	18-Mar-03	0.0188	0.0248	ND <0.011	ND <0.0278	0.368	---	---
	12-Jun-03	0.0147	0.0135	ND <0.01	ND <0.0261	0.565	1,360	8.06
	11-Sep-03	0.0184	0.0052	0.039	ND <0.0261	0.054	1,145	7.96
	12-Dec-03	0.0131	0.0075	ND <0.01	ND <0.02	0.023	1,190	7.98
	16-Mar-04	0.0175	0.0097	ND <0.01	ND <0.02	0.04	1,200	7.98

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-17</b>	18-Sep-02	ND <0.01	0.0051	ND <0.02	ND <0.005	0.169	---	---
	11-Sep-03	0.0023	0.002	ND <0.011	ND <0.0261	0.09	1,782	7.71
	05-Nov-03	0.0055	0.008	---	---	---	---	---
	12-Dec-03	0.0093	0.0137	ND <0.01	ND <0.02	0.14	1,800	7.73
	16-Mar-04	0.0067	0.0064	ND <0.01	ND <0.02	0.0705 J	1,840	7.81
<b>MW-18</b>	18-Sep-02	0.029	0.0355	ND <0.02	ND <0.005	0.375 J	---	---
	18-Sep-02 FD	0.0323	0.0326	ND <0.02	ND <0.005	0.147 J	---	---
	10-Dec-02	0.0354	0.0418	ND <0.02	ND <0.0278	0.188	---	---
	18-Mar-03	0.0336	0.0432	ND <0.011	ND <0.0278	0.137	---	---
	12-Jun-03	0.0233	0.0312	ND <0.01	ND <0.0261	0.556	1,600	7.87
	11-Sep-03	0.0461	0.0307	ND <0.011	ND <0.0261	0.05	1,272	7.71
	12-Dec-03	0.0349	0.0309	ND <0.01	ND <0.02	0.037	1,270	7.72
	16-Mar-04	0.0349	0.0303	ND <0.01	ND <0.02	0.0671 J	1,290	7.64
<b>MW-19</b>	10-Dec-02	0.761	0.75	ND <0.02	0.0101 J	0.356	---	---
	21-Mar-03	0.748	0.631	ND <0.011	ND <0.0278	0.176	---	---
	11-Jun-03	0.581	0.614	ND <0.01	ND <0.0261	0.398	2,410	7.77
	12-Sep-03	0.725	0.602	ND <0.011	ND <0.0261	0.101	2,350	7.62
	10-Dec-03	0.751	0.639	ND <0.01	ND <0.02	ND <0.02	2,360	7.66
	16-Mar-04	0.796	0.589	ND <0.01	ND <0.02	0.112 J	2,350	7.93
<b>MW-20-070</b>	17-Sep-02	8.24	9.79	ND <0.02	0.014	0.478	---	---
	11-Dec-02	8.76	13.8	ND <0.02	ND <0.0278	0.123	---	---
	20-Mar-03	11.6	10.2	ND <0.011	ND <0.0278	0.217	---	---
	11-Jun-03	11.9	9.23	0.02	ND <0.0261	0.149	3,810	7.62
	09-Sep-03	9.69	10.8	ND <0.011	ND <0.0261	0.0238 J	3,380	7.73
	10-Dec-03	9.87	15.9	ND <0.01	ND <0.02	0.079	3,420	7.66
	03-Mar-04	11.2	10.8	---	---	---	---	---
	15-Mar-04	11.2	9.77	ND <0.01	ND <0.02	0.53	3,650	7.56

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-20-100	17-Sep-02	2.82	3.32	ND <0.02	0.011	0.206 J	---	---
	17-Sep-02 FD	2.58	3.22	ND <0.0278	0.013	0.486 J	---	---
	11-Dec-02	3.08	3.87	ND <0.02	ND <0.0278	0.085	---	---
	20-Mar-03	2.91	2.64	ND <0.011	ND <0.0278	0.153	---	---
	11-Jun-03	2.77	2.18	ND <0.01	ND <0.0261	0.144	5,740	7.78
	09-Sep-03	2.74	2.63	ND <0.011	ND <0.0261	0.061	5,470	7.8
	10-Dec-03	2.79	3.17	ND <0.01	ND <0.02	0.233	5,460	7.79
	03-Mar-04	2.89	2.4	---	---	---	---	---
15-Mar-04	3.49	2.94	ND <0.01	ND <0.02	0.15 J	5,500	7.74	
MW-20-130	17-Sep-02	6.62	7.09	ND <0.02	0.032	0.203	---	---
	11-Dec-02	6.1	9.89	ND <0.02	0.0112 J	0.132	---	---
	20-Mar-03	6.3	5.16	ND <0.011	ND <0.0278	0.176	---	---
	11-Jun-03	6.44	5.02	ND <0.01	ND <0.0261	0.131	17,000	7.73
	09-Sep-03	6.08	6.0	ND <0.011	ND <0.0261	ND <0.0261	16,400	7.79
	10-Dec-03	5.94	7.06	ND <0.01	ND <0.02	0.057	16,600	7.76
	03-Mar-04	6.05	5.26	---	---	---	---	---
	15-Mar-04	7.96	6.67	ND <0.01	ND <0.02	0.201	14,900	7.76
MW-21	18-Sep-02	ND <0.01	0.0019	ND <0.02	0.017	0.099	---	---
	11-Dec-02	ND <0.01	0.0074	ND <0.02	0.0172 J	0.337	---	---
	21-Mar-03	ND <0.01	0.0106	ND <0.011	0.0264 J	0.364	---	---
	12-Jun-03	ND <0.01	0.0023 J	0.013	0.034	0.456	13,800	7.52
	10-Sep-03	ND <0.0002 *	ND <0.001	0.039	0.0261 J	0.068	13,220	7.22
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002 *	0.0033	0.024	0.02	0.287	13,000	7.16
	14-Jan-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	26-Feb-04	ND <0.001 J	ND <0.001	---	---	---	---	---
16-Mar-04	ND <0.0002 J	ND <0.001	0.051	0.06	0.692	12,900	7.28	
MW-22	19-Sep-02	ND <0.01	0.0139	ND <0.02	0.02	0.119	---	---
	12-Dec-02	ND <0.01	0.0035	ND <0.02	0.0175 J	0.118	---	---
	19-Mar-03	ND <0.01	0.0169	ND <0.011	ND <0.0278	0.16	---	---
	10-Jun-03	ND <0.01	0.005 J	ND <0.01	0.028	0.118	23,200	7.12
	10-Sep-03	ND <0.0002	0.0021	ND <0.011	0.027	0.029	28,600	6.89
	11-Dec-03	ND <0.0002	0.0104	ND <0.01	ND <0.02	0.062	29,200	6.95
	19-Mar-04	ND <0.005	0.0022	ND <0.01	ND <0.02	0.059	26,600	6.96

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-23</b>	18-Sep-02	ND <0.01	0.0072	ND <0.02	0.031	0.221	---	---
	11-Dec-02	ND <0.01	0.0095	ND <0.02	0.032	0.817	---	---
	21-Mar-03	ND <0.01	0.0119	ND <0.011	0.03	0.531	---	---
	12-Jun-03	ND <0.01	0.0011 J	ND <0.01	0.035	0.227	20,100	7.43
	10-Sep-03	ND <0.0002	ND <0.001	ND <0.011	0.0248 J	0.037	17,820	7.08
	11-Dec-03	ND <0.0002	0.0033	ND <0.01	ND <0.02	0.049	17,400	7.16
	16-Mar-04	0.0033 J	ND <0.001	ND <0.01	ND <0.02	0.08	17,400	7.24
<b>MW-24A</b>	17-Sep-02	3.29	3.49	ND <0.02	ND <0.005	0.308	---	---
	11-Dec-02	3.4	4.1	ND <0.02	ND <0.0278	0.122 J	---	---
	11-Dec-02 FD	3.43	4.16	ND <0.02	ND <0.0278	0.0693 J	---	---
	18-Mar-03	2.77	2.61	ND <0.011	ND <0.0278	0.62	---	---
	12-Jun-03	2.64 J	2.51	ND <0.01	ND <0.0261	0.326	4,030	7.85
	11-Sep-03	2.97	2.62	0.015	0.0225 J	0.034	3,430	7.66
	11-Sep-03 FD	3.06	2.74	ND <0.011	ND <0.0261	0.05	3,360	7.74
	10-Dec-03	2.99	3.32	ND <0.01	ND <0.02	0.064	3,350	7.74
	10-Dec-03 FD	3.03	4.08	ND <0.01	ND <0.02	0.061	3,310	7.74
	17-Mar-04	2.6	2.27	ND <0.01	ND <0.02	0.139 J	3,480	7.71
17-Mar-04 FD	2.44	1.97	ND <0.01	ND <0.02	0.186	3,520	7.72	
<b>MW-24B</b>	10-Dec-02	4.62	5.38	ND <0.02	ND <0.0278	0.3	---	---
	18-Mar-03	4.9	4.65	ND <0.011	ND <0.0278	0.468	---	---
	12-Jun-03	4.79	5.57	ND <0.01	0.031	0.307	14,500	7.94
	11-Sep-03	4.76	4.32	ND <0.011	ND <0.0261	0.029	12,950	7.97
	10-Dec-03	4.84	6.05	ND <0.01	ND <0.02	0.044	12,700	7.99
	17-Mar-04	4.86	3.9	ND <0.01	ND <0.02	0.077	13,100	8
<b>MW-24BR</b>	18-Sep-02	ND <0.01	0.0035	ND <0.02	0.006	0.152	---	---
	12-Dec-02	ND <0.01	0.0034	ND <0.02	ND <0.0278	0.066	---	---
	19-Mar-03	ND <0.01	0.016	ND <0.011	ND <0.0278	0.111	---	---
	13-Jun-03	ND <0.01	0.0029 J	ND <0.01	ND <0.0261	0.126	14,500	8.29
	12-Sep-03	ND <0.0002	0.0036 J	ND <0.011	ND <0.0261	0.072	14,000	8.59
	11-Dec-03	ND <0.0002	0.0046	ND <0.01	ND <0.02	ND <0.02	14,000	8.6
	17-Mar-04	ND <0.001 J	0.0048	ND <0.01	ND <0.02	0.146 J	13,800	8.19

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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-25</b>	17-Sep-02	2.56	2.79	ND <0.0278	0.021	0.145	---	---
	10-Dec-02	2.43	3.22	ND <0.02	ND <0.0278	0.167	---	---
	21-Mar-03	2.53	2.13	ND <0.011	ND <0.0278	0.325	---	---
	12-Jun-03	2.44	2.72	ND <0.01	ND <0.0261	0.334 J	2,180	7.94
	12-Jun-03 FD	2.48	3.41	ND <0.01	ND <0.0261	0.555 J	2,020	7.82
	12-Sep-03	2.35	2.08	ND <0.011	ND <0.0261	0.077	1,660	7.58
	12-Dec-03	2.21	3.22	ND <0.01	ND <0.02	0.025	1,660	7.62
	03-Mar-04	2.27	2.02	---	---	---	---	---
	17-Mar-04	2.18	1.92	ND <0.01	ND <0.02	0.078	1,740	7.55
	17-Mar-04 FD	2.44	1.94	ND <0.01	ND <0.02	0.076	1,780	7.54
<b>MW-26</b>	18-Sep-02	3.72	3.11	ND <0.0278	0.018	0.218	---	---
	11-Dec-02	3.86	5.02	ND <0.02	ND <0.0278	0.144	---	---
	20-Mar-03	3.28	2.75	ND <0.011	ND <0.0278	0.514	---	---
	20-Mar-03 FD	3.28	2.79	ND <0.011	ND <0.0278	0.356	---	---
	11-Jun-03	3.68	3.11	ND <0.01	ND <0.0261	0.081	3,620	7.77
	09-Sep-03	3.51	3.34	ND <0.011	ND <0.0261	0.0242 J	3,460	7.49
	10-Dec-03	3.89	5.0	ND <0.01	ND <0.02	0.436	3,570	7.67
	03-Mar-04	3.72	3.15	---	---	---	---	---
	16-Mar-04	3.97	3.58	ND <0.01	ND <0.02	0.167	3,540	7.62



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**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (μS/cm)	pH
MW-27	19-Sep-02	ND <0.01	ND <0.0011	ND <0.02	ND <0.005	0.164	---	---
	12-Dec-02	ND <0.01	0.0056	ND <0.02	ND <0.0278	0.213	---	---
	19-Mar-03	ND <0.01	0.0115	ND <0.011	ND <0.0278	0.105	---	---
	10-Jun-03	ND <0.01	0.0105	ND <0.01	ND <0.0261	0.285	958	7.64
	10-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.0227 J	958	7.6
	04-Nov-03	ND <0.0002	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002	0.001	ND <0.01	ND <0.02	ND <0.02	978	7.7
	13-Jan-04	ND <0.0002	ND <0.001	---	---	---	---	---
	29-Jan-04	ND <0.0002	0.0015	---	---	---	---	---
	05-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	12-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	19-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	26-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	03-Mar-04	ND <0.0002	0.0019	---	---	---	---	---
	10-Mar-04	ND <0.0002	ND <0.001	---	---	---	---	---
	17-Mar-04	ND <0.0002	ND <0.0012	ND <0.01	ND <0.02	ND <0.194	963	7.64
24-Mar-04	ND <0.0002	ND <0.001	---	---	---	---	---	

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (μS/cm)	pH
<b>MW-28-25</b>	19-Sep-02	ND <0.01	0.0036	ND <0.02	ND <0.005	0.097	---	---
	12-Dec-02	ND <0.01	0.0039	ND <0.02	ND <0.0278	0.124	---	---
	20-Mar-03	ND <0.01	0.0121	ND <0.011	ND <0.0278	0.286	---	---
	10-Jun-03	ND <0.01	0.012	ND <0.01	ND <0.0261	0.055	1,820	7.56
	10-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.039 J	1,290	7.56
	10-Sep-03 FD	ND <0.0002	ND <0.001	0.011	0.026	0.124	1,290	7.54
	04-Nov-03	ND <0.0002	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.057	1,330	7.58
	13-Jan-04	ND <0.0002	0.0015	---	---	---	---	---
	29-Jan-04	ND <0.0002	0.0016	---	---	---	---	---
	05-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	12-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	20-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	26-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	04-Mar-04	ND <0.0002	ND <0.0021	---	---	---	---	---
	10-Mar-04	ND <0.0002	ND <0.0012	---	---	---	---	---
	17-Mar-04	ND <0.0002	ND <0.0012	ND <0.01	ND <0.02	ND <0.168	2,050	7.56
24-Mar-04	ND <0.0002	ND <0.001	---	---	---	---	---	
<b>MW-29</b>	19-Sep-02	ND <0.01	0.0076	ND <0.02	0.02	0.125	---	---
	11-Dec-02	ND <0.01	0.0125	ND <0.02	0.0128 J	0.145	---	---
	20-Mar-03	ND <0.01	0.0193	ND <0.011	ND <0.0278	0.356	---	---
	11-Jun-03	ND <0.01 J	0.0033 J	ND <0.01	ND <0.0261	0.101	5,030	7.39
	10-Sep-03	ND <0.0002 *	ND <0.001	ND <0.011	ND <0.0261	0.0232 J	3,960	7.28
	11-Dec-03	ND <0.0002 *	ND <0.001	0.016	ND <0.02	0.055	5,880	7.28
	19-Feb-04	ND <0.0002 J	ND <0.0018	---	---	---	---	---
	18-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.355	8,210	7.28

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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
MW-30-30	19-Sep-02	ND <0.01	ND <0.0011	ND <0.02	0.007	0.042	---	---
	12-Dec-02	ND <0.01	0.0035	ND <0.02	0.035	0.096	---	---
	20-Mar-03	ND <0.01	0.0264	ND <0.011	0.0235 J	0.597	---	---
	10-Jun-03	ND <0.01	0.0061	ND <0.01	0.04	0.11	35,300	7.06
	10-Sep-03	ND <0.0002 *	0.0016	ND <0.011	0.04	0.07	51,300	6.97
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002 *	0.0053	ND <0.01	ND <0.02	ND <0.02	48,300	7.06
	14-Jan-04	ND <0.0002 *	0.0017	---	---	---	---	---
	29-Jan-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	05-Feb-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	12-Feb-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	19-Feb-04	ND <0.0002 *	ND <0.0018	---	---	---	---	---
	26-Feb-04	ND <0.001	ND <0.001	---	---	---	---	---
	04-Mar-04	ND <0.005	ND <0.001	---	---	---	---	---
	11-Mar-04	ND <0.005 J	ND <0.0023	---	---	---	---	---
	18-Mar-04	ND <0.005	ND <0.001	ND <0.01	ND <0.02	0.061	43,200	6.98
24-Mar-04	ND <0.005	ND <0.001	---	---	---	---	---	

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**Groundwater Sampling Results**  
**September 2002 through March 2004**  
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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-30-50</b>	19-Mar-03	3.4	3.14	ND <0.011	ND <0.0278	0.092	---	---
	20-Mar-03	3.76	3.34	---	---	---	---	---
	10-Jun-03	2.71	2.6	ND <0.01	ND <0.0261	0.0736 J	9,330	7.58
	10-Jun-03 FD	2.77	2.72	ND <0.01	ND <0.0261	0.146 J	9,140	7.46
	10-Sep-03	0.0906	0.175	0.039	ND <0.0261	0.365	9,240	7.24
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	04-Nov-03 FD	ND <0.0002 *	ND <0.001	---	---	---	---	---
	12-Dec-03	ND <0.0002 *	0.0081 J	ND <0.01	ND <0.02	0.0467 J	3,160	7.68
	12-Dec-03 FD	ND <0.0002 *	0.0049 J	ND <0.01	ND <0.02	ND <0.02 J	3,140	7.84
	14-Jan-04	ND <0.0002	0.0037	---	---	---	---	---
	29-Jan-04	ND <0.0002 *	0.0028	---	---	---	---	---
	05-Feb-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	12-Feb-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	19-Feb-04	0.384	0.333	---	---	---	---	---
	26-Feb-04	ND <0.001 J	ND <0.001	---	---	---	---	---
	05-Mar-04	0.0831	0.0412	---	---	---	---	---
	05-Mar-04 FD	0.104	0.0606	---	---	---	---	---
	11-Mar-04	0.984	0.744	---	---	---	---	---
	18-Mar-04	1.65	1.41	ND <0.01	ND <0.02	0.0985 J	9,990	7.32
	18-Mar-04 FD	1.52	1.3	ND <0.01	ND <0.02	0.0546 J	9,970	7.32
25-Mar-04	2.31	2.24	---	---	---	---	---	
<b>MW-31-060</b>	17-Sep-02	3.64	5.06	ND <0.0278	ND <0.0056	0.262	---	---
	11-Dec-02	3.88	5.62	ND <0.02	ND <0.0278	0.274	---	---
	21-Mar-03	4.0	3.45	ND <0.011	ND <0.0278	0.211	---	---
	11-Jun-03	3.57	3.16	ND <0.01	ND <0.0261	0.149	3,150	7.7
	09-Sep-03	3.55	3.46	ND <0.011	ND <0.0261	0.0248 J	2,960	7.72
	10-Dec-03	3.66	5.01	ND <0.01	ND <0.02	0.021	2,980	7.68
	03-Mar-04	3.97	3.37	---	---	---	---	---
	16-Mar-04	4.45	3.23	ND <0.01	ND <0.02	0.178	3,020	7.63

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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-32-20</b>	19-Mar-03	ND <0.01	0.013	ND <0.011	ND <0.0278	0.066	---	---
	20-Mar-03	ND <0.01 J	0.0115	---	---	---	---	---
	10-Jun-03	ND <0.01	0.0031 J	0.01	ND <0.0261	0.086	6,510	6.95
	10-Sep-03	ND <0.0002 *	ND <0.001	ND <0.011	ND <0.0261	0.036	6,610	6.78
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002 *	0.0058	ND <0.01	ND <0.02	0.081	11,500	7.03
	13-Jan-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	18-Feb-04	ND <0.001	ND <0.001	---	---	---	---	---
	04-Mar-04	ND <0.001	ND <0.0019	---	---	---	---	---
18-Mar-04	ND <0.0002 J	ND <0.001	ND <0.01	ND <0.02	0.084	9,300	6.85	
<b>MW-32-35</b>	19-Mar-03	ND <0.01	0.0135	ND <0.011	ND <0.0278	0.297	---	---
	20-Mar-03	ND <0.01	0.0131	---	---	---	---	---
	10-Jun-03	ND <0.01	0.0038 J	ND <0.01	ND <0.0261	0.329	7,540	7.31
	10-Sep-03	ND <0.0002 *	ND <0.001	ND <0.011	ND <0.0261	0.04	6,930	7.2
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002 *	0.002	ND <0.01	ND <0.02	0.381	6,560	7.26
	13-Jan-04	ND <0.0002 R	0.0133	---	---	---	---	---
	18-Feb-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	04-Mar-04	ND <0.001	ND <0.0015	---	---	---	---	---
18-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.07	6,720	7.16	
<b>MW-33-40</b>	19-Mar-03	ND <0.01	0.0155	ND <0.011	ND <0.0278	0.089	---	---
	20-Mar-03	ND <0.01	0.0147	---	---	---	---	---
	11-Jun-03	ND <0.01 J	0.0034 J	ND <0.01	ND <0.0261	0.171	4,190	8.62
	10-Sep-03	ND <0.0002 *	ND <0.001	0.019	ND <0.0261	ND <0.0261	14,880	7.84
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	ND <0.0002 *	0.0035	ND <0.01	ND <0.02	0.033	14,200	7.73
	13-Jan-04	ND <0.0002 R	0.0022	---	---	---	---	---
	19-Feb-04	ND <0.0002 *	ND <0.0018	---	---	---	---	---
	18-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.04	5,420	8.29

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LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (μS/cm)	pH
<b>MW-33-90</b>	19-Mar-03	ND <0.01	0.0165	ND <0.011	ND <0.0278	0.15	---	---
	20-Mar-03	ND <0.01	0.0154	---	---	---	---	---
	11-Jun-03	ND <0.01 J	0.0033 J	0.306	ND <0.0261	0.315	8,240	8.36
	12-Sep-03	ND <0.0002	0.0017 J	ND <0.011	ND <0.0261	0.112	8,910	7.76
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	13-Jan-04	0.00069 R	ND <0.001	---	---	---	---	---
	17-Feb-04	0.0139	0.0118	---	---	---	---	---
	17-Feb-04 FD	0.0135	0.0112	---	---	---	---	---
	18-Mar-04	0.0155	0.0114	ND <0.01	ND <0.02	0.077	7,970	7.74
<b>MW-34-55</b>	16-Jun-03	ND <0.01	0.0038 J	ND <0.01	0.0223 J	0.074	10,300	7.38
	17-Jun-03	ND <0.01	0.0041 J	ND <0.01	0.0204 J	0.163	11,000	7.51
	10-Sep-03	ND <0.0002 *	0.0017	ND <0.011	ND <0.0261	0.035	7,050	7.44
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	12-Dec-03	ND <0.0002 *	0.0018	ND <0.01	ND <0.02	0.038	2,840	7.52
	13-Jan-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	29-Jan-04	ND <0.0002 *	0.0014	---	---	---	---	---
	05-Feb-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	12-Feb-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	18-Feb-04	ND <0.0002 *	ND <0.001	---	---	---	---	---
	26-Feb-04	ND <0.001 J	ND <0.001	---	---	---	---	---
	04-Mar-04	ND <0.001	ND <0.0017	---	---	---	---	---
	11-Mar-04	ND <0.001	ND <0.0013	---	---	---	---	---
	17-Mar-04	ND <0.001 J	ND <0.001	ND <0.01	ND <0.02	ND <0.0831	10,600	7.38
	24-Mar-04	ND <0.002	0.0065	---	---	---	---	---

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
<b>MW-34-80</b>	16-Jun-03	ND <0.01	0.0087	ND <0.01	ND <0.0261	0.069	13,800	7.49
	17-Jun-03	ND <0.01	0.0032 J	ND <0.01	0.0222 J	0.085	14,800	7.57
	10-Sep-03	ND <0.0002 *	ND <0.001	ND <0.011	ND <0.0261	0.079	13,380	7.47
	04-Nov-03	ND <0.0002 *	ND <0.001	---	---	---	---	---
	11-Dec-03	0.0377	0.0452	ND <0.01	ND <0.02	0.035	14,100	7.72
	13-Jan-04	0.0047 R	0.0145 J	---	---	---	---	---
	13-Jan-04 FD	0.0034 R	0.0094 J	---	---	---	---	---
	29-Jan-04	0.111	0.111	---	---	---	---	---
	29-Jan-04 FD	0.102	0.111	---	---	---	---	---
	05-Feb-04	0.0102	0.0124	---	---	---	---	---
	05-Feb-04 FD	0.0129	0.0152	---	---	---	---	---
	12-Feb-04	ND <0.0002 R	ND <0.001	---	---	---	---	---
	12-Feb-04 FD	ND <0.0002 R	ND <0.001	---	---	---	---	---
	18-Feb-04	0.0204	0.0165	---	---	---	---	---
	26-Feb-04	0.0662 J	0.0625	---	---	---	---	---
	26-Feb-04 FD	0.092	0.0567	---	---	---	---	---
	05-Mar-04	0.0256	0.0256	---	---	---	---	---
	11-Mar-04	0.005	0.0071	---	---	---	---	---
	11-Mar-04 FD	0.0073	0.0072	---	---	---	---	---
	17-Mar-04	0.0057	0.006	ND <0.01	ND <0.02	ND <0.0755	13,900	7.61
25-Mar-04	0.0034 J	0.0092 J	---	---	---	---	---	
25-Mar-04 FD	0.0037	0.0049 J	---	---	---	---	---	
<b>Park-Moabi</b>	18-Mar-03	ND <0.01	0.0114	ND <0.011	ND <0.0278	0.303	---	---
	04-Nov-03	0.0003	0.0012	---	---	---	---	---
	11-Dec-03	0.0067	0.007	ND <0.01	ND <0.02	0.054	1,250	7.91
	16-Mar-04	0.0026	0.0021	ND <0.01	ND <0.02	0.0748 J	1,260	7.87
<b>PGE-06</b>	09-Sep-03	0.304	0.354	ND <0.011	ND <0.0261	0.027	4,130	7.98
	09-Dec-03	0.671	0.776	ND <0.01	ND <0.02	0.092	4,220	7.71
<b>PGE-07</b>	10-Dec-03	4.74	6.78	0.019	ND <0.02	0.125	14,300	8.08
<b>PGE-08</b>	09-Dec-03	ND <0.0002	0.0038	ND <0.01	ND <0.02	0.094	17,100	8.48
<b>TW-01</b>	16-Dec-03	3.25	4.32	---	---	---	5,770	7.37

**Table 1**  
**Groundwater Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (µS/cm)	pH
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NOTES:

1. milligrams per liter (mg/L)
2. microSiemens per centimeter (µS/cm)
3. ND = not detected at listed reporting limit, J = concentration or reporting limit estimated by laboratory or data validation, R = result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making, \* = the reporting limit (RL) for hexavalent chromium is estimated and might be as high as the total chromium RL.
4. Hexavalent chromium analysis methods: SW 7196A (reporting limit 0.010 mg/L) and SW 7199 (reporting limit 0.0002 mg/L)
5. Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), copper, nickel, zinc (dissolved concentrations, SW 6020A), specific conductance (SW 9050), pH (SW 9040).
6. (---) = data not collected or not available.
7. FD = field duplicate sample
8. The September 2003 total chromium (dissolved) results for samples: MW-16, MW-17, MW-21, MW-22, MW-23, MW-27, MW-28 (and MW-28 duplicate sample), MW-29, MW-30-30, MW-32-20, MW-32-35, MW-33-40, MW-34-55, and MW-34-80 are from laboratory re-analyses using Method SW 6010B.
9. During the February 2004 monthly event, a sampling method comparison test was performed for 10 wells in the floodplain area. The results listed for this event are from samples collected using the well-volume sampling method.



**Table 2**  
**Surface Water Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

Sample Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (uS/cm)	pH
<b>A-DOCK</b>	08-Sep-03	ND <0.0002	ND <0.001	---	---	---	---	---
	17-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
<b>CON</b>	18-Sep-02	ND <0.01	0.004	ND <0.02	ND <0.005	0.308	---	---
	12-Dec-02	ND <0.01	0.0073	ND <0.02	ND <0.0278	0.174	---	---
	20-Mar-03	ND <0.01	0.0133	ND <0.011	ND <0.0278	0.245	---	---
	11-Jun-03	ND <0.01	0.003 J	ND <0.01	ND <0.0261	0.127	988	8.31
	08-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.0631	930	8.10
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0401	977	8.31
	17-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0967	990	8.23
<b>I-3</b>	18-Sep-02	ND <0.01	0.0044	ND <0.02	ND <0.005	0.096	---	---
	12-Dec-02	ND <0.01	0.0057	ND <0.02	ND <0.0278	0.0847	---	---
	19-Mar-03	ND <0.01	0.0135	ND <0.011	ND <0.0278	0.063	---	---
	10-Jun-03	ND <0.01 J	0.0034 J	ND <0.01	ND <0.0261	0.0936	969	8.27
	08-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.158	936	8.11
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0592	984	8.28
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.144 J	997	8.23
<b>NEEDLES-1</b>	08-Sep-03	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
<b>NR-1</b>	08-Sep-03	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0707	990	8.30
<b>NR-2</b>	08-Sep-03	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Mar-04	ND <0.001	ND <0.001	ND <0.01	ND <0.02	0.0608	988	8.32
<b>NR-3</b>	17-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Mar-04	ND <0.0002 J	ND <0.001	ND <0.01	ND <0.02	0.287	986	8.32

**Table 2**  
**Surface Water Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

Sample Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (uS/cm)	pH
<b>R-22</b>	18-Sep-02	ND <0.01	0.0034	0.119	0.0244	0.226	---	---
	12-Dec-02	ND <0.01	0.0067	ND <0.02	ND <0.0278	0.0761	---	---
	19-Mar-03	ND <0.01	0.0125	ND <0.011	ND <0.0278	0.159	---	---
	10-Jun-03	ND <0.01	0.003 J	ND <0.01	ND <0.0261	0.105	1,000	8.31
	10-Sep-03	ND <0.0002	ND <0.001	0.0681	ND <0.0261	0.116	960	8.12
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0664	986	8.30
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	16-Feb-04 <sup>FD</sup>	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	0.0011	ND <0.01	ND <0.02	0.176	993	8.27
<b>R-27</b>	18-Sep-02	ND <0.01	0.0038	ND <0.02	ND <0.005	0.343	---	---
	12-Dec-02	ND <0.01	0.007	ND <0.02	ND <0.0278	0.135	---	---
	19-Mar-03	ND <0.01	0.0103	ND <0.011	ND <0.0278	0.114	---	---
	10-Jun-03	ND <0.01	0.0026 J	ND <0.01	ND <0.0261	0.174	952	8.31
	10-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.0906	960	8.17
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0343	994	8.32
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	03-Mar-04	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.122 J	988	8.27
<b>R-28</b>	18-Sep-02	ND <0.01	0.0187	ND <0.02	0.03	1.06	---	---
	12-Dec-02	ND <0.01	0.0072	ND <0.02	ND <0.0278	0.11	---	---
	20-Mar-03	ND <0.01	0.0146	ND <0.011	ND <0.0278	0.324	---	---
	10-Jun-03	ND <0.01	0.0055	ND <0.01	ND <0.0261	0.174	963	8.29
	10-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	ND <0.0261	968	8.32
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0309	998	8.38
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	03-Mar-04	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.104 J	981	8.27
<b>RRB</b>	12-Dec-02	ND <0.01	0.0141	ND <0.02	ND <0.0278	0.172	---	---
	20-Mar-03	ND <0.01	0.013	ND <0.011	ND <0.0278	0.334	---	---
	11-Jun-03	ND <0.01	0.0044 J	ND <0.01	ND <0.0261	0.126	995	8.14
	08-Sep-03	ND <0.0002	ND <0.001	ND <0.011	ND <0.0261	0.178	980	7.82
	08-Dec-03	ND <0.0002	ND <0.001	ND <0.01	ND <0.02	0.0331	1,260	7.86
	16-Feb-04	ND <0.0002	ND <0.001	---	---	---	---	---
	15-Mar-04	ND <0.0002	0.0016	ND <0.01	ND <0.02	0.116 J	992	8.16

**Table 2**  
**Surface Water Sampling Results**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

Sample Location	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (uS/cm)	pH
<b>Vernal-Pool</b>	18-Sep-02	ND <0.01	0.0179	ND <0.02	0.0216	1.06	---	---

NOTES:

1. mg/L = milligrams per liter
2.  $\mu$ S/cm = microSiemens per centimeter
2. ND = not detected at listed reporting limit, J = concentration or reporting limit estimated by laboratory or data validation.
3. Hexavalent chromium analysis methods: SW 7196A (reporting limit 0.010 mg/L) and SW 7199 (reporting limit 0.0002 mg/L).
4. Other analysis methods: total chromium (dissolved concentrations re-analyses by Method SW 6010B), copper, nickel, zinc (dissolved concentrations, SW 6020A), specific conductance (SW 9050), pH (SW 9040).
5. (---) = data not collected or not available
6. FD = field duplicate sample

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
<b>Monitoring Wells</b>						
<b>MW-09</b>	88	536.18	16-Sep-02 12:00 PM	79.75	0.20	456.45
	88	536.18	09-Dec-02 12:00 PM	81.00	0.20	455.19
	88	536.18	17-Mar-03 12:00 PM	81.20	0.20	454.99
	88	536.18	09-Jun-03 9:04 AM	79.85	0.20	456.35
	88	536.18	08-Sep-03 10:45 AM	80.15	0.20	456.04
	88	536.18	08-Dec-03 9:47 AM	81.22	0.20	454.97
	88	536.56	15-Mar-04 12:37 PM	81.28	0.20	455.29
<b>MW-10</b>	95	530.24	16-Sep-02 12:00 PM	74.00	0.20	456.27
	95	530.24	09-Dec-02 12:00 PM	75.28	0.20	454.99
	95	530.24	17-Mar-03 12:00 PM	75.44	0.20	454.83
	95	530.24	09-Jun-03 9:01 AM	73.95	0.20	456.32
	95	530.24	08-Sep-03 10:42 AM	74.40	0.20	455.87
	95	530.24	08-Dec-03 9:40 AM	75.37	0.20	454.90
	95	530.65	15-Mar-04 12:32 PM	75.40	0.20	455.28
<b>MW-11</b>	88	522.19	16-Sep-02 12:00 PM	66.17	0.10	456.04
	88	522.19	09-Dec-02 12:00 PM	67.30	0.10	454.91
	88	522.19	17-Mar-03 12:00 PM	66.90	0.10	455.31
	88	522.19	09-Jun-03 8:57 AM	---	0.10	---
	88	522.19	08-Sep-03 10:38 AM	66.52	0.10	455.69
	88	522.19	08-Dec-03 9:35 AM	67.47	0.10	454.74
	88	522.61	15-Mar-04 12:25 PM	67.32	0.10	455.31
<b>MW-12</b>	49	483.57	16-Sep-02 12:00 PM	27.75	0.20	455.85
	49	483.57	09-Dec-02 12:00 PM	29.00	0.20	454.60
	49	483.57	17-Mar-03 12:00 PM	28.95	0.20	454.65
	49	483.57	09-Jun-03 10:11 AM	27.58	0.20	456.02
	49	483.57	08-Sep-03 11:58 AM	28.15	0.20	455.45
	49	483.57	08-Dec-03 10:58 AM	29.00	0.20	454.60
	49	484.01	15-Mar-04 10:30 AM	29.00	0.28	455.05

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-13</b>	50	488.20	16-Sep-02	12:00 PM	32.00	0.10	456.21
	50	488.20	09-Dec-02	12:00 PM	32.35	0.10	455.86
	50	488.20	17-Mar-03	12:00 PM	32.40	0.10	455.81
	50	488.20	09-Jun-03	9:45 AM	32.00	0.10	456.21
	50	488.20	08-Sep-03	11:23 AM	32.33	0.10	455.88
	50	488.20	08-Dec-03	10:36 AM	32.40	0.10	455.81
	50	488.64	15-Mar-04	2:25 PM	32.37	0.14	456.29
<b>MW-14</b>	132	570.54	16-Sep-02	12:00 PM	114.75	0.10	455.80
	132	570.54	09-Dec-02	12:00 PM	115.90	0.10	454.65
	132	570.54	17-Mar-03	12:00 PM	115.70	0.10	454.85
	132	570.54	09-Jun-03	9:40 AM	114.40	0.10	456.15
	132	570.54	08-Sep-03	11:15 AM	115.00	0.10	455.55
	132	570.54	08-Dec-03	10:27 AM	115.90	0.10	454.65
	132	570.99	15-Mar-04	2:16 PM	115.52	0.10	455.48
<b>MW-15</b>	202	641.09	16-Sep-02	12:00 PM	184.70	0.12	456.41
	202	641.09	09-Dec-02	12:00 PM	186.00	0.10	455.10
	202	641.09	17-Mar-03	12:00 PM	186.25	0.10	454.85
	202	641.09	09-Jun-03	9:14 AM	185.83	0.10	455.27
	202	641.09	08-Sep-03	10:53 AM	184.33	0.10	456.77
	202	641.09	08-Dec-03	9:56 AM	186.23	0.10	454.87
	202	641.52	15-Mar-04	12:48 PM	184.81	0.10	456.72
<b>MW-16</b>	218	656.59	16-Sep-02	12:00 PM	199.70	0.10	456.90
	218	656.59	09-Dec-02	12:00 PM	201.10	0.10	455.50
	218	656.59	17-Mar-03	12:00 PM	201.60	0.10	455.00
	218	656.59	09-Jun-03	9:19 AM	200.60	0.10	456.00
	218	656.59	08-Sep-03	11:04 AM	200.43	0.10	456.17
	218	656.59	08-Dec-03	10:05 AM	201.25	0.10	455.35
	218	657.31	15-Mar-04	12:58 PM	201.65	0.10	455.67

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-17</b>	151	588.23	16-Sep-02	12:00 PM	132.68	0.10	455.56
	151	588.23	09-Dec-02	12:00 PM	133.68	0.10	454.56
	151	588.23	09-Jun-03	12:40 PM	132.80	0.10	455.44
	151	588.23	08-Sep-03	1:33 PM	132.95	0.10	455.29
	151	588.23	05-Nov-03	8:43 AM	133.60	0.10	454.64
	151	588.23	08-Dec-03	10:15 AM	133.77	0.10	454.47
	151	589.96	15-Mar-04	2:00 PM	133.87	0.10	456.10
<b>MW-18</b>	110	544.52	16-Sep-02	12:00 PM	88.78	0.10	455.76
	110	544.52	09-Dec-02	12:00 PM	89.95	0.10	454.59
	110	544.52	17-Mar-03	12:00 PM	89.80	0.10	454.74
	110	544.52	09-Jun-03	9:03 AM	88.55	0.10	455.99
	110	544.52	08-Sep-03	11:10 AM	88.97	0.10	455.57
	110	544.52	08-Dec-03	10:23 AM	89.95	0.10	454.59
	110	545.32	15-Mar-04	2:10 PM	89.76	0.10	455.58
<b>MW-19</b>	66	499.11	16-Sep-02	12:00 PM	44.31	0.10	454.82
	66	499.11	09-Dec-02	12:00 PM	45.60	0.10	453.52
	66	499.11	17-Mar-03	12:00 PM	44.52	0.10	454.61
	66	499.11	09-Jun-03	9:48 AM	43.27	0.10	455.86
	66	499.11	08-Sep-03	11:32 AM	44.32	0.10	454.81
	66	499.11	08-Dec-03	10:43 AM	45.18	0.10	453.95
	66	499.92	15-Mar-04	2:38 PM	44.56	0.15	455.38

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-20-070</b>	70	499.67	16-Sep-02	12:00 PM	44.52	0.20	455.19
	70	499.67	09-Dec-02	12:00 PM	45.95	0.20	453.76
	70	499.67	17-Mar-03	12:00 PM	44.83	0.20	454.88
	70	499.67	09-Jun-03	10:02 AM	43.60	0.20	456.11
	70	499.67	06-Aug-03	11:55 AM	44.27	0.20	455.44
	70	499.67	06-Aug-03	11:56 AM	44.27	0.20	455.44
	70	499.67	08-Sep-03	11:37 AM	44.70	0.20	455.01
	70	499.67	08-Dec-03	10:50 AM	44.45	0.20	455.26
	70	500.15	15-Mar-04	3:04 PM	56.99	0.24	443.18
<b>MW-20-100</b>	100	500.08	16-Sep-02	12:00 PM	45.15	0.30	455.05
	100	500.08	09-Dec-02	12:00 PM	47.50	0.30	452.69
	100	500.08	17-Mar-03	12:00 PM	45.60	0.30	454.60
	100	500.08	09-Jun-03	10:06 AM	43.95	0.30	456.25
	100	500.08	06-Aug-03	12:10 PM	44.80	0.30	455.40
	100	500.08	08-Sep-03	11:42 AM	45.15	0.30	455.05
	100	500.08	08-Dec-03	10:53 AM	45.93	0.30	454.27
	100	500.58	15-Mar-04	2:54 PM	74.75	0.36	425.90
<b>MW-20-130</b>	132	500.20	16-Sep-02	12:00 PM	45.45	1.20	455.49
	132	500.20	09-Dec-02	12:00 PM	46.95	1.20	453.98
	132	500.20	17-Mar-03	12:00 PM	45.27	1.20	455.67
	132	500.20	09-Jun-03	10:04 AM	44.25	1.10	456.64
	132	500.20	17-Jun-03	10:30 AM	44.70	1.10	456.19
	132	500.20	08-Sep-03	11:40 AM	45.55	1.20	455.39
	132	500.20	08-Dec-03	10:57 AM	46.30	1.20	454.64
	132	500.66	15-Mar-04	3:02 PM	69.88	0.96	431.21

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-21</b>	60	504.77	16-Sep-02	12:00 PM	49.30	0.80	455.53
	60	504.77	09-Dec-02	12:00 PM	50.60	0.80	454.22
	60	504.77	17-Mar-03	12:00 PM	50.50	0.90	454.33
	60	504.77	09-Jun-03	10:35 AM	49.00	0.80	455.83
	60	504.77	08-Sep-03	11:52 AM	49.25	0.90	455.59
	60	504.77	03-Nov-03	8:53 AM	49.87	1.00	454.97
	60	504.77	08-Dec-03	10:15 AM	50.65	0.90	454.18
	60	505.55	15-Mar-04	11:35 AM	50.70	0.83	454.90
<b>MW-22</b>	11	460.30	06-Aug-02	12:00 PM	4.85	1.86	455.56
	11	460.30	16-Sep-02	12:00 PM	6.03	2.00	454.37
	11	460.30	09-Dec-02	12:00 PM	7.00	2.20	453.39
	11	460.30	17-Mar-03	12:00 PM	5.87	1.80	454.52
	11	460.30	09-Jun-03	10:50 AM	4.75	1.70	455.65
	11	460.30	08-Sep-03	12:42 PM	6.50	2.10	453.90
	11	460.30	08-Dec-03	12:10 PM	6.25	2.10	454.15
	11	460.72	15-Mar-04	11:33 AM	5.65	2.10	455.18
<b>MW-23</b>	80	506.53	16-Sep-02	12:00 PM	51.52	1.10	455.25
	80	506.53	09-Dec-02	12:00 PM	52.65	1.30	454.15
	80	506.53	17-Mar-03	12:00 PM	52.20	1.20	454.58
	80	506.53	09-Jun-03	10:17 AM	51.25	1.20	455.54
	80	506.53	08-Sep-03	12:00 PM	51.72	1.20	455.07
	80	506.53	08-Dec-03	11:04 AM	52.63	1.20	454.15
	80	507.33	15-Mar-04	11:50 AM	52.54	1.13	455.03



**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-24A</b>	125	566.38	16-Sep-02	12:00 PM	110.68	0.20	455.72
	125	566.38	09-Dec-02	12:00 PM	111.90	0.20	454.50
	125	566.38	17-Mar-03	12:00 PM	112.00	0.20	454.40
	125	566.38	09-Jun-03	8:50 AM	110.60	0.20	455.80
	125	566.38	05-Aug-03	5:45 PM	110.57	0.20	455.83
	125	566.38	06-Aug-03	10:45 AM	110.69	0.20	455.71
	125	566.38	08-Sep-03	10:26 AM	111.02	0.20	455.38
	125	566.38	09-Sep-03	3:04 PM	110.96	0.20	455.44
	125	566.38	09-Sep-03	3:34 PM	110.97	0.20	455.43
	125	566.38	08-Dec-03	9:15 AM	112.00	0.20	454.40
	125	567.16	15-Mar-04	11:50 AM	111.94	0.23	455.24
<b>MW-24B</b>	217	564.01	16-Sep-02	12:00 PM	108.40	0.80	456.24
	217	564.01	09-Dec-02	12:00 PM	109.80	0.90	454.91
	217	564.01	17-Mar-03	12:00 PM	109.75	0.80	454.88
	217	564.01	09-Jun-03	8:48 AM	108.35	0.80	456.29
	217	564.01	05-Aug-03	6:30 PM	108.30	0.80	456.34
	217	564.01	06-Aug-03	10:45 AM	108.37	0.80	456.27
	217	564.01	08-Sep-03	10:24 AM	108.82	0.90	455.89
	217	564.01	09-Sep-03	3:51 PM	108.66	0.90	456.05
	217	564.01	09-Sep-03	2:54 PM	108.64	0.90	456.07
	217	564.01	09-Sep-03	3:06 PM	108.64	0.90	456.07
	217	564.01	08-Dec-03	9:17 AM	109.80	0.90	454.91
	217	564.76	15-Mar-04	12:00 PM	109.71	0.85	455.71

**Table 3**  
**Water Level Measurements and Elevations**  
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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-24BR</b>	440	563.11	16-Sep-02	12:00 PM	107.25	0.90	457.99
	440	563.11	09-Dec-02	12:00 PM	108.75	1.00	456.72
	440	563.11	17-Mar-03	12:00 PM	108.45	0.90	456.79
	440	563.11	09-Jun-03	8:45 AM	106.90	0.90	458.35
	440	563.11	08-Sep-03	10:15 AM	107.58	0.90	457.66
	440	563.11	09-Sep-03	3:10 PM	107.60	0.90	457.64
	440	563.11	09-Sep-03	3:15 PM	107.60	0.90	457.64
	440	563.11	09-Sep-03	3:56 PM	107.59	0.90	457.65
	440	563.11	08-Dec-03	9:30 AM	108.30	1.00	457.17
	440	563.95	15-Mar-04	12:08 PM	108.55	0.89	457.51
<b>MW-25</b>	105	542.34	16-Sep-02	12:00 PM	86.83	0.10	455.52
	105	542.34	09-Dec-02	12:00 PM	88.10	0.10	454.25
	105	542.34	17-Mar-03	12:00 PM	87.65	0.10	454.70
	105	542.34	09-Jun-03	9:50 AM	88.35	0.10	454.00
	105	542.34	08-Sep-03	11:26 AM	87.00	0.10	455.35
	105	542.34	08-Dec-03	10:37 AM	87.95	0.10	454.40
	105	542.90	15-Mar-04	2:31 PM	87.62	0.11	455.30
<b>MW-26</b>	72	501.74	16-Sep-02	12:00 PM	46.27	0.20	455.51
	72	501.74	09-Dec-02	12:00 PM	47.50	0.20	454.28
	72	501.74	17-Mar-03	12:00 PM	47.10	0.20	454.68
	72	501.74	09-Jun-03	10:40 AM	45.85	0.20	455.93
	72	501.74	08-Sep-03	11:47 AM	46.53	0.20	455.25
	72	501.74	08-Dec-03	10:21 AM	47.40	0.20	454.38
	72	502.22	15-Mar-04	11:42 AM	47.10	0.23	455.16

**Table 3**  
**Water Level Measurements and Elevations**  
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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>	<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-27</b>	17	460.09	06-Aug-02 12:00 PM	4.57	0.07	455.53
	17	460.09	16-Sep-02 12:00 PM	5.95	0.10	454.15
	17	460.09	09-Dec-02 12:00 PM	7.26	0.00	452.83
	17	460.09	17-Mar-03 12:00 PM	5.32	0.10	454.78
	17	460.09	09-Jun-03 11:00 AM	3.85	0.00	456.24
	17	460.09	10-Jun-03 9:45 AM	3.71	0.00	456.38
	17	460.09	17-Jun-03 8:30 AM	4.19	0.00	455.90
	17	460.09	05-Aug-03 2:40 PM	4.97	0.00	455.12
	17	460.09	08-Sep-03 12:47 PM	5.75	0.00	454.34
	17	460.09	04-Nov-03 9:40 AM	6.65	0.10	453.45
	17	460.09	08-Dec-03 12:26 PM	6.40	0.00	453.69
	17	460.56	15-Mar-04 11:27 AM	5.02	0.00	455.54
<b>MW-28</b>	23	466.32	06-Aug-02 12:00 PM	11.07	0.09	455.26
	23	466.32	16-Sep-02 12:00 PM	12.25	0.10	454.08
	23	466.32	09-Dec-02 12:00 PM	13.40	0.10	452.93
	23	466.32	17-Mar-03 12:00 PM	11.45	0.20	454.89
	23	466.32	09-Jun-03 11:40 AM	10.10	0.10	456.23
	23	466.32	08-Sep-03 1:05 PM	12.00	0.10	454.33
	23	466.32	04-Nov-03 11:29 AM	13.00	0.10	453.33
	23	466.32	08-Dec-03 12:48 PM	12.70	0.10	453.63
	23	466.85	15-Mar-04 11:05 AM	11.45	0.10	455.41
<b>MW-29</b>	40	484.73	06-Aug-02 12:00 PM	29.09	0.28	455.67
	40	484.73	16-Sep-02 12:00 PM	29.87	0.10	454.87
	40	484.73	09-Dec-02 12:00 PM	31.20	0.50	453.57
	40	484.73	17-Mar-03 12:00 PM	29.90	0.80	454.90
	40	484.73	09-Jun-03 12:00 PM	28.75	0.30	456.01
	40	484.73	08-Sep-03 1:25 PM	30.00	0.20	454.75
	40	484.73	08-Dec-03 1:00 PM	30.60	0.30	454.15
	40	485.21	15-Mar-04 10:55 AM	29.87	0.53	455.39

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**Water Level Measurements and Elevations**  
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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>	<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-30-30</b>	32	467.64	06-Aug-02 12:00 PM	12.45	3.36	455.70
	32	467.64	16-Sep-02 12:00 PM	13.20	4.00	455.03
	32	467.64	09-Dec-02 12:00 PM	14.30	4.00	453.90
	32	467.64	17-Mar-03 12:00 PM	13.30	2.90	454.77
	32	467.64	09-Jun-03 11:30 AM	12.00	2.50	456.03
	32	467.64	05-Aug-03 2:00 PM	12.75	2.50	455.27
	32	467.64	06-Aug-03 2:00 PM	12.89	2.50	455.12
	32	467.64	08-Sep-03 12:58 PM	13.30	4.00	454.93
	32	467.64	10-Sep-03 1:25 PM	13.32	4.00	454.91
	32	467.64	04-Nov-03 11:14 AM	13.70	4.00	454.52
	32	467.64	08-Dec-03 12:40 PM	13.85	3.60	454.31
	32	468.12	15-Mar-04 11:10 AM	13.30	3.20	455.29
<b>MW-30-50</b>	50	468.36	17-Mar-03 12:00 PM	13.55	0.70	455.00
	50	468.36	09-Jun-03 11:31 AM	12.25	0.60	456.28
	50	468.36	05-Aug-03 3:20 PM	14.03	0.60	454.49
	50	468.36	08-Sep-03 1:00 PM	13.97	0.70	454.58
	50	468.36	10-Sep-03 1:30 PM	14.05	0.70	454.50
	50	468.36	04-Nov-03 10:55 AM	14.78	0.60	453.74
	50	468.36	08-Dec-03 12:45 PM	14.73	0.20	453.68
	50	468.81	15-Mar-04 11:12 AM	13.70	0.60	455.27
<b>MW-31</b>	62	496.30	16-Sep-02 12:00 PM	41.35	0.20	454.98
	62	496.30	09-Dec-02 12:00 PM	42.65	0.20	453.68
	62	496.30	17-Mar-03 12:00 PM	41.44	0.20	454.89
	62	496.30	09-Jun-03 9:57 AM	40.20	0.20	456.13
	62	496.30	08-Sep-03 11:35 AM	41.35	0.20	454.98
	62	496.30	08-Dec-03 10:45 AM	42.15	0.20	454.18
	62	496.81	15-Mar-04 11:30 AM	41.44	0.20	455.40

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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-32-20</b>	20	461.05	17-Mar-03	12:00 PM	6.50	0.40	454.59
	20	461.05	09-Jun-03	10:45 AM	5.30	0.40	455.80
	20	461.05	08-Sep-03	12:38 PM	6.64	0.40	454.45
	20	461.05	04-Nov-03	9:27 AM	7.25	0.70	453.87
	20	461.05	08-Dec-03	12:15 PM	7.25	0.70	453.87
	20	461.51	15-Mar-04	11:30 AM	6.50	0.60	455.08
<b>MW-32-35</b>	37	461.21	17-Mar-03	12:00 PM	6.40	0.30	454.88
	37	461.21	09-Jun-03	10:43 AM	5.03	0.40	456.28
	37	461.21	08-Sep-03	12:36 PM	6.67	0.40	454.63
	37	461.21	04-Nov-03	9:10 AM	7.52	0.40	453.78
	37	461.21	08-Dec-03	12:20 PM	7.40	0.40	453.90
	37	461.63	15-Mar-04	11:31 AM	6.36	0.43	455.37
<b>MW-33-40</b>	39	486.92	17-Mar-03	12:00 PM	32.20	0.20	454.73
	39	486.92	09-Jun-03	12:08 PM	30.90	0.20	456.04
	39	486.92	08-Sep-03	1:10 PM	32.28	1.10	454.72
	39	486.92	04-Nov-03	1:00 PM	33.13	1.00	453.85
	39	486.92	08-Dec-03	12:52 PM	33.05	1.00	453.93
	39	487.41	15-Mar-04	11:00 AM	32.03	0.20	455.39
<b>MW-33-90</b>	89	487.08	17-Mar-03	12:00 PM	32.15	0.40	455.10
	89	487.08	09-Jun-03	12:05 PM	30.95	0.50	456.34
	89	487.08	08-Sep-03	1:14 PM	32.50	0.50	454.79
	89	487.08	04-Nov-03	1:14 PM	33.30	0.60	454.03
	89	487.08	08-Dec-03	12:55 PM	33.25	0.60	454.08
	89	487.57	15-Mar-04	11:02 AM	32.22	0.40	455.52

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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>MW-34-55</b>	56	460.45	09-Jun-03	11:12 AM	4.20	0.50	456.44
	56	460.45	16-Jun-03	1:10 PM	5.45	0.50	455.18
	56	460.45	05-Aug-03	4:05 PM	6.00	0.50	454.63
	56	460.45	06-Aug-03	1:40 PM	6.24	0.50	454.39
	56	460.45	08-Sep-03	12:52 PM	6.17	0.30	454.39
	56	460.45	04-Nov-03	10:00 AM	6.97	0.40	453.62
	56	460.45	08-Dec-03	12:30 PM	7.00	0.10	453.49
	56	460.88	15-Mar-04	11:17 AM	5.85	0.70	455.28
<b>MW-34-80</b>	83	460.53	09-Jun-03	11:15 AM	4.30	0.90	456.74
	83	460.53	16-Jun-03	11:15 AM	5.25	0.80	455.73
	83	460.53	05-Aug-03	4:20 PM	6.10	0.80	454.87
	83	460.53	06-Aug-03	1:40 PM	6.27	0.80	454.70
	83	460.53	08-Sep-03	12:50 PM	6.27	1.00	454.81
	83	460.53	04-Nov-03	10:20 AM	7.00	1.00	454.07
	83	460.53	08-Dec-03	12:35 PM	7.07	0.90	453.95
	83	460.99	15-Mar-04	11:19 AM	5.98	0.90	455.51
<b>PGE-06</b>	180	562.99	16-Sep-02	12:00 PM	106.85	0.33	456.31
	180	562.99	09-Dec-02	12:00 PM	108.10	0.33	455.06
	180	562.99	17-Mar-03	12:00 PM	108.15	0.33	455.01
	180	562.99	09-Jun-03	8:25 AM	106.90	0.33	456.26
	180	562.99	08-Sep-03	10:30 AM	107.20	0.20	455.90
	180	562.99	08-Dec-03	9:25 AM	108.15	0.30	455.00
	180	563.32	15-Mar-04	12:13 PM	108.14	0.30	455.33

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<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>		<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>PGE-07</b>	330	563.63	09-Dec-02	12:00 PM	108.80	0.94	456.31
	330	563.63	17-Mar-03	12:00 PM	108.92	0.94	456.20
	330	563.63	09-Jun-03	8:35 AM	108.35	0.97	456.82
	330	563.63	08-Sep-03	10:28 AM	107.95	0.97	457.22
	330	563.63	08-Dec-03	9:21 AM	108.95	1.00	456.26
	330	563.89	15-Mar-04	12:16 PM	108.80	1.00	456.66
<b>PGE-08</b>	562	595.35	16-Sep-02	12:00 PM	139.93	1.12	458.79
	562	595.35	09-Dec-02	12:00 PM	140.90	1.12	457.81
	562	595.35	17-Mar-03	12:00 PM	141.36	1.12	457.35
	562	595.35	09-Jun-03	8:29 AM	139.53	1.12	459.20
	562	595.35	08-Sep-03	1:45 PM	140.05	1.12	458.67
	562	595.35	08-Dec-03	9:05 AM	141.05	1.30	458.21
	562	596.01	15-Mar-04	10:15 AM	141.07	1.30	458.83

**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Well Depth (feet BGS)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
<b>Surface Water Stations</b>						
<b>A-Dock</b>	0	459.67	06-Aug-02 12:00 PM	5.02	0.00	454.65
	0	459.67	16-Sep-02 12:00 PM	5.05	0.00	454.62
	0	459.67	09-Dec-02 12:00 PM	6.80	0.00	452.87
	0	459.67	17-Mar-03 12:00 PM	4.45	0.00	455.22
	0	459.67	09-Jun-03 12:25 PM	3.50	0.00	456.17
	0	459.67	08-Sep-03 12:23 PM	5.50	0.00	454.17
	0	459.67	08-Dec-03 1:22 PM	6.75	0.00	452.92
	0	460.22	15-Mar-04 10:47 AM	4.95	0.00	455.27
<b>I-3</b>	0	459.87	06-Aug-02 12:00 PM	5.70	0.00	454.17
	0	459.87	16-Sep-02 12:00 PM	7.82	0.00	452.05
	0	459.87	09-Dec-02 12:00 PM	7.02	0.00	452.85
	0	459.87	17-Mar-03 12:00 PM	5.40	0.00	454.47
	0	459.87	09-Jun-03 10:26 AM	3.65	0.00	456.22
	0	459.87	10-Jun-03 11:10 AM	4.25	0.00	455.62
	0	459.87	16-Jun-03 3:25 PM	5.53	0.00	454.34
	0	459.87	08-Sep-03 12:06 PM	5.85	0.00	454.02
	0	459.87	09-Sep-03 4:17 PM	6.72	0.00	453.15
	0	459.87	03-Nov-03 3:34 PM	7.60	0.00	452.27
	0	459.87	08-Dec-03 1:50 PM	7.20	0.00	452.67
	0	460.30	15-Mar-04 10:30 AM	5.62	0.00	454.68



**Table 3**  
**Water Level Measurements and Elevations**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Well Depth (feet BGS)</b>	<b>Measuring Point Elevation (feet AMSL)*</b>	<b>Monitoring Date &amp; Time</b>	<b>Water Level Measurement (feet BMP)</b>	<b>Salinity (percent)</b>	<b>Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)</b>
<b>RRB</b>	0	476.18	06-Aug-02 12:00 PM	21.83	0.00	454.35
	0	476.18	16-Sep-02 12:00 PM	21.78	0.00	454.40
	0	476.18	09-Dec-02 12:00 PM	23.40	0.00	452.78
	0	476.18	17-Mar-03 12:00 PM	21.25	0.00	454.93
	0	476.18	09-Jun-03 12:20 PM	20.25	0.00	455.93
	0	476.18	08-Sep-03 12:18 PM	22.10	0.00	454.08
	0	476.18	03-Nov-03 3:42 PM	23.57	0.00	452.61
	0	476.18	08-Dec-03 1:42 PM	23.35	0.00	452.83
	0	476.63	15-Mar-04 10:40 AM	21.61	0.00	455.02

**NOTES:**

1. BGS: below ground surface
2. AMSL: above mean sea level
3. BMP: below well measure point
4. Well depths rounded off to whole foot.
5. (---): data not collected or available.

\* Measuring Point Elevations were re-surveyed in February 2004.

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>Monitoring Wells</b>						
<b>MW-09</b>	17-Sep-02	4,260	30.5	8.14	8	4.4
	10-Dec-02	3,061	24.9	8.18	136	7.7
	18-Mar-03	3,540	26.9	7.96	65	4.2
	12-Jun-03	3,590	30.2	8.09	67	8.4
	11-Sep-03	3,640	30.5	7.35	77	3.7
	12-Dec-03	3,750	27.4	7.30	55	4.5
	16-Mar-04	3,570	28.7	7.44	109	4.7
<b>MW-10</b>	17-Sep-02	3,580	30.0	8.19	-25	2.3
	10-Dec-02	3,038	27.5	8.29	13	2.6
	18-Mar-03	3,530	28.1	8.18	42	0.8
	12-Jun-03	3,580	29.2	8.16	37	1.1
	11-Sep-03	3,250	29.1	7.46	57	2.3
	12-Dec-03	3,140	28.2	7.48	52	3.3
	16-Mar-04	4,090	28.6	7.41	101	5.6
<b>MW-11</b>	17-Sep-02	2,640	31.9	8.14	-82	6.1
	10-Dec-02	4,020	27.0	8.24	128	4.6
	18-Mar-03	2,430	28.6	8.04	62	8.3
	12-Jun-03	2,520	29.8	8.10	58	6.5
	11-Sep-03	2,560	29.8	7.44	68	5.9
	12-Dec-03	2,350	27.8	7.37	73	4.5
	16-Mar-04	2,830	29.1	7.42	111	5.9
<b>MW-12</b>	18-Sep-02	4,300	28.3	9.06	-128	4.2
	11-Dec-02	4,015	27.6	9.23	-145	6.1
	20-Mar-03	4,300	28.0	9.28	-52	5.0
	11-Jun-03	4,150	28.7	9.19	-10	6.7
	09-Sep-03	4,360	29.3	8.03	187	6.5
	10-Dec-03	4,480	27.8	8.47	-24	7.2
	16-Mar-04	---	28.8	8.56	141	6.4
<b>MW-13</b>	17-Sep-02	2,300	27.6	6.63	190	7.4
	10-Dec-02	2,020	27.6	8.31	107	6.7
	21-Mar-03	2,260	26.4	8.29	48	6.4
	12-Jun-03	2,170	29.5	8.17	27	6.4
	13-Sep-03	2,180	28.9	7.55	19	6.9
	12-Dec-03	2,060	27.9	7.53	-13	6.0
	17-Mar-04	---	29.3	7.78	84	6.4

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-14</b>	18-Sep-02	1,480	29.6	8.32	-30	7.8
	10-Dec-02	1,035	27.4	8.39	66	8.5
	21-Mar-03	1,700	28.0	8.35	9	7.6
	12-Jun-03	1,630	29.3	8.22	-33	6.0
	11-Sep-03	1,660	29.4	7.62	33	6.1
	12-Dec-03	1,540	28.0	7.61	4	6.7
	16-Mar-04	1,770	28.6	7.69	10	7.0
<b>MW-15</b>	10-Dec-02	1,045	27.8	8.42	112	4.2
	18-Mar-03	1,850	29.1	8.31	11	8.9
	12-Jun-03	1,670	30.5	8.47	47	6.4
	11-Sep-03	1,260	30.5	7.81	20	7.6
	12-Dec-03	1,400	29.2	7.58	10	7.2
	16-Mar-04	2,200	29.4	7.53	-71	7.8
<b>MW-16</b>	10-Dec-02	1,031	28.5	8.55	84	2.5
	18-Mar-03	1,210	29.1	8.52	-22	5.0
	12-Jun-03	1,190	30.9	8.50	-28	5.5
	11-Sep-03	1,220	30.6	7.79	-28	3.2
	12-Dec-03	1,200	28.1	1.67	-49	5.6
	16-Mar-04	1,360	29.4	7.81	-7	8.1
<b>MW-17</b>	18-Sep-02	1,650	29.9	8.57	-150	4.2
	11-Sep-03	1,840	30.5	7.60	39	2.7
	05-Nov-03	1,920	27.6	7.72	43	4.7
	12-Dec-03	1,730	27.8	7.58	29	6.0
	16-Mar-04	2,030	29.4	7.60	15	5.3
<b>MW-18</b>	18-Sep-02	1,320	29.6	8.32	10	8.0
	10-Dec-02	1,035	27.4	8.39	66	8.5
	18-Mar-03	1,200	27.1	8.26	69	9.9
	12-Jun-03	1,300	30.4	8.28	65	7.4
	11-Sep-03	1,360	29.6	7.62	91	7.8
	12-Dec-03	1,300	27.7	7.58	21	7.8
	16-Mar-04	1,450	28.6	7.65	55	8.5
<b>MW-19</b>	10-Dec-02	2,058	27.4	8.34	108	6.1
	21-Mar-03	2,620	27.8	8.43	56	7.3
	13-Sep-03	2,500	29.0	7.56	64	7.0
	10-Dec-03	2,480	27.4	7.58	81	7.4
	16-Mar-04	---	29.0	7.82	92	7.2

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-20-070</b>	17-Sep-02	3,660	30.0	8.09	137	5.2
	11-Dec-02	3,043	28.2	8.23	41	4.9
	20-Mar-03	4,210	27.8	8.43	40	4.7
	11-Jun-03	3,770	31.4	8.15	62	3.8
	09-Sep-03	3,660	30.6	7.50	113	4.3
	10-Dec-03	3,680	28.5	7.61	82	6.2
	03-Mar-04	---	28.7	7.38	147	4.3
	15-Mar-04	---	28.0	7.60	198	5.4
<b>MW-20-100</b>	17-Sep-02	6,080	30.1	8.30	135	3.0
	11-Dec-02	5,079	27.8	8.44	2	1.5
	20-Mar-03	5,870	29.4	8.50	-20	1.9
	11-Jun-03	5,730	31.4	8.38	31	1.6
	09-Sep-03	6,010	30.4	7.61	95	0.9
	10-Dec-03	15,900	28.3	7.80	53	3.8
	03-Mar-04	---	28.7	7.54	138	3.2
	15-Mar-04	---	29.4	7.60	155	3.6
<b>MW-20-130</b>	17-Sep-02	20,000	32.1	8.40	102	4.0
	11-Dec-02	19,001	28.9	8.41	1	2.3
	20-Mar-03	19,400	29.2	8.49	17	3.0
	11-Jun-03	19,000	31.1	8.30	34	1.9
	09-Sep-03	20,000	32.1	7.59	110	4.5
	10-Dec-03	19,100	26.5	7.81	48	3.2
	03-Mar-04	---	27.9	7.43	153	2.8
	15-Mar-04	---	28.4	7.96	177	4.3
<b>MW-21</b>	18-Sep-02	13,000	28.5	7.58	-198	0.3
	11-Dec-02	13,005	26.3	7.70	-176	1.6
	20-Mar-03	15,600	27.3	7.96	-230	0.3
	11-Jun-03	13,900	28.7	7.61	-192	0.1
	09-Sep-03	14,400	30.3	7.13	-69	3.9
	04-Nov-03	16,900	26.1	7.50	219	5.9
	10-Dec-03	15,800	26.4	7.08	-105	3.8
	13-Jan-04	18,200	26.3	7.32	-101	4.1
	25-Feb-04	22,300	26.3	6.78	-95	4.2
	15-Mar-04	---	29.1	6.78	-157	2.7
16-Mar-04	---	27.6	7.07	129	9.9	

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-22</b>	18-Sep-02	32,000	30.1	7.05	-143	1.2
	12-Dec-02	34,007	23.2	7.36	-143	0.0
	19-Mar-03	28,900	20.3	7.28	-161	1.4
	10-Jun-03	27,300	24.7	8.15	-156	0.3
	10-Sep-03	33,900	30.8	6.60	-102	1.0
	11-Dec-03	32,600	22.8	6.97	-23	3.3
	19-Mar-04	33,100	22.5	6.96	-162	0.0
<b>MW-23</b>	18-Sep-02	18,300	27.8	7.53	-182	1.6
	11-Dec-02	20,008	26.4	7.66	-196	1.0
	20-Mar-03	19,900	27.7	7.94	-148	1.0
	11-Jun-03	19,400	29.1	7.78	-155	0.6
	09-Sep-03	20,700	28.2	7.09	-84	1.8
	11-Dec-03	21,000	26.0	7.42	-198	2.6
	15-Mar-04	---	29.5	6.79	-196	3.9
	16-Mar-04	---	27.5	7.03	100	6.2
<b>MW-24A</b>	17-Sep-02	4,290	31.6	8.35	151	5.7
	11-Dec-02	3,046	26.4	7.27	212	3.4
	18-Mar-03	3,650	27.9	8.50	12	3.3
	12-Jun-03	3,850	29.1	8.71	-150	3.5
	11-Sep-03	3,600	29.3	7.79	16	2.9
	10-Dec-03	3,620	28.5	7.86	16	4.7
	17-Mar-04	---	29.3	7.96	59	6.5
<b>MW-24B</b>	10-Dec-02	12,400	25.8	8.83	85	1.3
	18-Mar-03	13,700	29.1	8.71	-24	1.5
	12-Jun-03	14,400	31.0	8.65	13	1.9
	11-Sep-03	14,700	31.1	8.28	-41	2.7
	10-Dec-03	15,300	29.4	8.09	-47	2.9
	17-Mar-04	---	30.4	8.35	-46	2.0
<b>MW-24BR</b>	18-Sep-02	16,900	29.1	8.50	-188	2.2
	11-Dec-02	17,000	30.4	8.52	-302	1.1
	18-Mar-03	15,200	26.3	8.49	-297	0.9
	12-Jun-03	15,800	32.4	8.38	-359	0.1
	11-Sep-03	15,900	32.0	7.81	-294	0.6
	10-Dec-03	16,800	30.5	7.94	-317	2.4
	16-Mar-04	---	32.4	7.85	-380	0.0
	17-Mar-04	---	32.0	8.10	-276	1.9

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-25</b>	17-Sep-02	1,910	29.2	7.85	173	4.6
	10-Dec-02	1,078	28.3	8.24	112	6.3
	19-Mar-03	1,980	28.4	8.24	56	6.6
	12-Jun-03	1,920	30.5	8.07	63	3.5
	13-Sep-03	1,800	29.9	7.48	64	5.0
	12-Dec-03	1,650	28.6	7.63	-39	6.1
	03-Mar-04	---	28.4	7.44	157	4.4
	17-Mar-04	---	29.8	7.77	99	7.4
<b>MW-26</b>	18-Sep-02	3,590	30.1	8.09	-29	7.2
	11-Dec-02	3,025	28.5	8.11	-40	3.0
	20-Mar-03	3,700	29.0	8.50	-62	6.3
	11-Jun-03	3,480	30.9	8.12	-18	2.9
	09-Sep-03	3,790	31.0	7.25	77	6.4
	10-Dec-03	4,000	26.7	7.42	61	7.4
	03-Mar-04	---	29.6	7.36	158	4.3
	16-Mar-04	---	30.4	7.90	164	9.1
<b>MW-27</b>	19-Sep-02	1,110	21.7	8.30	-208	1.0
	12-Dec-02	1,004	18.8	8.55	-208	0.0
	19-Mar-03	1,370	18.5	8.34	-182	0.8
	10-Jun-03	980	20.4	9.15	-213	0.1
	10-Sep-03	1,100	21.8	7.57	-183	0.2
	04-Nov-03	1,130	21.0	7.87	-172	3.3
	11-Dec-03	938	19.5	7.72	-177	3.1
	13-Jan-04	1,420	19.5	7.86	-188	2.3
	29-Jan-04	1,160	17.7	7.83	-204	1.6
	05-Feb-04	883	18.8	7.87	-211	2.1
	12-Feb-04	950	17.7	7.85	-200	3.7
	26-Feb-04	1,340	17.0	7.86	-190	1.9
	03-Mar-04	---	18.1	7.53	-211	1.3
	10-Mar-04	---	21.2	7.55	-157	2.4
17-Mar-04	938	19.3	7.62	-234	2.6	
24-Mar-04	1,150	21.1	7.64	-219	3.0	

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-28-25</b>	19-Sep-02	1,550	25.1	8.39	-115	1.9
	12-Dec-02	1,069	23.7	8.37	-84	0.2
	20-Mar-03	3,200	23.0	8.41	-143	0.0
	10-Jun-03	1,930	24.4	9.09	-173	0.0
	10-Sep-03	1,430	25.9	7.43	-110	1.0
	04-Nov-03	1,480	25.2	7.87	-106	3.3
	11-Dec-03	1,450	24.0	7.87	-170	3.4
	13-Jan-04	1,770	23.9	7.60	-77	2.1
	29-Jan-04	1,970	23.5	7.55	-72	2.0
	05-Feb-04	1,240	23.5	7.65	-111	2.0
	12-Feb-04	1,260	22.8	7.65	-111	1.7
	26-Feb-04	1,860	22.6	7.67	-113	2.2
	04-Mar-04	---	24.9	7.61	92	2.9
	10-Mar-04	---	24.6	7.69	-115	2.4
	17-Mar-04	2,290	24.2	7.44	-169	3.6
24-Mar-04	2,490	26.0	7.40	-163	3.5	
<b>MW-29</b>	19-Sep-02	23,500	24.6	7.95	-210	0.0
	11-Dec-02	7,018	24.5	7.73	-213	0.0
	20-Mar-03	14,300	24.6	7.85	-173	0.0
	11-Jun-03	8,630	24.7	7.63	-255	0.1
	10-Sep-03	5,700	25.2	7.14	-207	0.2
	11-Dec-03	7,180	24.5	7.34	-242	3.0
	18-Mar-04	---	25.7	7.70	-164	1.9

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-30-30</b>	19-Sep-02	60,200	27.0	7.37	-138	1.0
	12-Dec-02	61,006	25.7	7.23	-98	0.1
	20-Mar-03	44,100	25.5	7.53	-137	0.1
	10-Jun-03	40,100	28.2	8.43	-153	0.7
	10-Sep-03	62,200	28.7	6.81	-145	0.3
	04-Nov-03	65,600	26.2	7.11	-161	2.0
	11-Dec-03	54,800	25.6	7.04	-130	2.6
	14-Jan-04	70,000	25.3	6.67	-109	1.7
	29-Jan-04	62,800	25.4	6.86	-139	1.9
	05-Feb-04	44,800	25.1	7.01	-142	1.8
	12-Feb-04	32,200	25.4	7.04	-149	1.9
	26-Feb-04	58,900	25.2	7.07	-139	1.9
	04-Mar-04	---	25.7	7.04	-118	0.8
	11-Mar-04	---	26.6	7.50	-121	0.5
	18-Mar-04	48,300	27.4	6.98	-160	1.5
24-Mar-04	48,700	27.7	7.00	-172	2.8	
<b>MW-30-50</b>	19-Mar-03	9,630	26.1	8.27	-9	0.0
	20-Mar-03	11,700	25.9	8.38	-19	0.0
	10-Jun-03	11,200	26.6	9.48	-201	0.0
	10-Sep-03	11,900	27.4	7.25	-234	0.1
	04-Nov-03	10,300	26.2	7.44	-227	3.1
	12-Dec-03	3,070	25.9	7.42	-324	2.0
	14-Jan-04	3,350	25.5	7.95	-344	1.7
	29-Jan-04	6,390	25.7	7.39	-209	2.0
	05-Feb-04	7,050	25.6	7.37	-136	1.9
	12-Feb-04	6,300	25.0	7.29	-161	1.9
	26-Feb-04	10,200	25.5	7.41	-173	2.2
	05-Mar-04	---	26.4	7.29	-75	1.5
	11-Mar-04	---	26.9	7.60	-42	1.4
	18-Mar-04	10,800	27.7	7.36	-66	0.4
	25-Mar-04	11,900	27.5	7.54	-45	3.3



**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-31-60</b>	17-Sep-02	3,350	29.1	8.04	163	7.0
	11-Dec-02	3,033	27.6	8.27	46	5.9
	21-Mar-03	3,320	24.2	8.51	75	8.1
	11-Jun-03	3,150	30.0	8.17	75	7.5
	09-Sep-03	3,280	29.9	7.52	144	6.7
	10-Dec-03	3,220	27.4	7.66	87	6.1
	03-Mar-04	---	28.0	7.45	160	4.8
	16-Mar-04	---	29.8	7.88	149	7.0
<b>MW-32-20</b>	19-Mar-03	6,290	23.4	7.20	-138	0.1
	20-Mar-03	7,000	22.8	7.23	-147	0.0
	10-Jun-03	6,650	25.7	7.65	-144	0.2
	10-Sep-03	7,190	27.8	6.61	-114	0.7
	04-Nov-03	12,000	26.4	7.02	-148	2.9
	11-Dec-03	11,900	24.4	7.05	-118	3.0
	13-Jan-04	11,600	23.4	7.13	-117	2.6
	04-Mar-04	---	23.7	6.99	-151	1.7
	18-Mar-04	---	24.9	7.35	-148	1.4
<b>MW-32-35</b>	19-Mar-03	6,340	24.5	7.90	-170	0.0
	20-Mar-03	7,210	24.3	7.92	-180	0.0
	10-Jun-03	8,130	24.9	8.53	-283	0.0
	10-Sep-03	7,370	26.1	7.10	-245	0.1
	04-Nov-03	6,940	25.3	7.34	-218	3.0
	11-Dec-03	6,580	24.8	7.29	-254	2.4
	13-Jan-04	8,480	24.8	7.20	-255	2.0
	04-Mar-04	---	25.6	7.35	-193	1.9
18-Mar-04	---	26.1	7.71	-165	1.3	
<b>MW-33-40</b>	19-Mar-03	3,840	26.5	9.30	-5	1.2
	20-Mar-03	4,250	26.5	9.63	-72	0.3
	11-Jun-03	4,160	27.0	7.59	-267	1.0
	10-Sep-03	18,000	27.8	7.63	-200	0.4
	04-Nov-03	17,000	26.9	7.88	-185	2.9
	11-Dec-03	16,300	26.5	7.80	-258	2.7
	13-Jan-04	17,900	26.7	7.76	-229	2.4
	18-Mar-04	4,440	27.5	8.28	-181	1.4

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>MW-33-90</b>	19-Mar-03	7,130	26.8	8.73	-192	0.0
	20-Mar-03	8,190	26.6	8.95	-193	0.0
	11-Jun-03	7,760	30.0	7.83	-252	1.8
	12-Sep-03	9,270	27.3	7.34	-224	0.9
	04-Nov-03	10,000	27.1	7.88	-215	2.6
	13-Jan-04	13,200	26.3	7.75	-146	3.3
	18-Mar-04	8,140	27.2	7.76	-107	0.3
<b>MW-34-55</b>	16-Jun-03	11,500	23.2	7.93	-178	0.0
	17-Jun-03	9,040	23.0	7.85	-182	0.0
	10-Sep-03	5,830	24.5	7.50	-319	0.0
	04-Nov-03	7,270	23.1	7.65	-275	2.3
	12-Dec-03	2,770	22.9	6.66	-214	2.8
	13-Jan-04	3,690	22.3	7.86	-28	2.3
	29-Jan-04	8,690	22.9	7.35	-144	2.0
	05-Feb-04	8,710	22.7	7.41	-153	2.3
	12-Feb-04	7,900	22.2	7.39	-165	2.0
	26-Feb-04	13,100	22.3	7.45	-115	2.2
	04-Mar-04	---	23.2	7.38	-97	1.4
	11-Mar-04	---	24.0	7.70	-88	1.3
	17-Mar-04	12,200	23.3	7.28	-134	0.0
	24-Mar-04	14,500	23.7	7.36	-200	2.2
<b>MW-34-80</b>	16-Jun-03	15,400	23.7	7.80	-194	0.1
	17-Jun-03	13,300	23.3	7.78	-180	0.0
	10-Sep-03	16,000	24.7	7.30	-314	0.0
	04-Nov-03	16,700	23.5	7.84	-215	2.3
	11-Dec-03	15,700	22.9	7.86	-307	1.9
	13-Jan-04	14,000	23.0	7.74	-268	1.9
	29-Jan-04	11,500	22.8	7.68	-145	1.6
	05-Feb-04	13,200	22.6	7.74	-179	2.2
	12-Feb-04	12,300	22.4	7.71	-184	2.1
	26-Feb-04	26,900	22.3	7.76	-40	2.9
	05-Mar-04	---	22.9	7.74	73	1.4
	11-Mar-04	---	23.8	7.97	-63	1.0
	17-Mar-04	15,500	23.1	7.50	-112	0.0
25-Mar-04	15,300	24.0	7.58	-135	2.5	

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

<b>LocID</b>	<b>Sampling Date</b>	<b>Electrical Conductivity (uS/cm)</b>	<b>Temperature (°C)</b>	<b>pH</b>	<b>ORP (mV)</b>	<b>Dissolved Oxygen (mg/L)</b>
<b>Park-Moabi</b>	18-Mar-03	1,200	21.2	8.54	---	---
	04-Nov-03	1,540	22.7	8.20	51	7.6
	11-Dec-03	1,340	27.2	8.11	-88	6.6
	16-Mar-04	---	24.1	7.03	204	8.3
<b>PGE-06</b>	09-Sep-03	4,550	29.6	7.62	-71	0.2
	09-Dec-03	5,020	27.9	7.62	-31	2.5
<b>PGE-07</b>	10-Dec-03	17,200	26.3	8.26	94	4.1
<b>PGE-08</b>	09-Dec-03	21,600	30.8	8.08	-269	2.1

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>Surface Water Stations</b>						
<b>A-Dock</b>	08-Sep-03	947	27.3	7.72	176	10.6
<b>CON</b>	18-Sep-02	804	20.1	8.83	51	11.4
	12-Dec-02	1,009	13.8	9.15	---	---
	20-Mar-03	1,020	14.7	9.72	---	---
	11-Jun-03	887	19.1	8.89	-15	11.2
	08-Sep-03	936	21.9	7.83	186	9.5
	10-Dec-03	969	13.1	8.45	81	9.8
	15-Mar-04	1,090	16.1	7.55	128	10.0
<b>I-3</b>	18-Sep-02	813	19.2	8.60	23	10.8
	12-Dec-02	1,012	13.4	9.25	---	---
	19-Mar-03	804	13.6	5.67	---	---
	10-Jun-03	990	18.4	6.19	235	12.0
	08-Sep-03	977	22.6	8.19	127	12.3
	09-Dec-03	1,110	13.7	8.42	45	10.0
	15-Mar-04	1,090	14.9	6.91	226	11.1
<b>Needles-1</b>	08-Sep-03	951	22.7	6.57	224	9.3
<b>NR-1</b>	08-Sep-03	945	22.5	7.04	208	9.9
	16-Mar-04	---	16.2	8.03	213	10.0
<b>NR-2</b>	08-Sep-03	948	22.5	7.61	192	9.5
	16-Mar-04	---	15.8	8.21	203	9.9
<b>NR-3</b>	16-Mar-04	---	15.8	8.32	199	9.8
<b>R-22</b>	18-Sep-02	804	22.3	8.75	5	11.1
	12-Dec-02	1,068	14.0	9.32	---	---
	19-Mar-03	900	13.7	9.12	---	---
	10-Jun-03	935	18.8	9.13	74	11.9
	10-Sep-03	1,150	20.1	7.91	56	6.9
	11-Dec-03	1,020	13.2	8.49	41	9.6
	15-Mar-04	1,090	15.7	7.73	161	9.9

**Table 4**  
**Field Water Quality Measurements**  
**September 2002 through March 2004**  
**PG&E Topock Groundwater Monitoring Program**

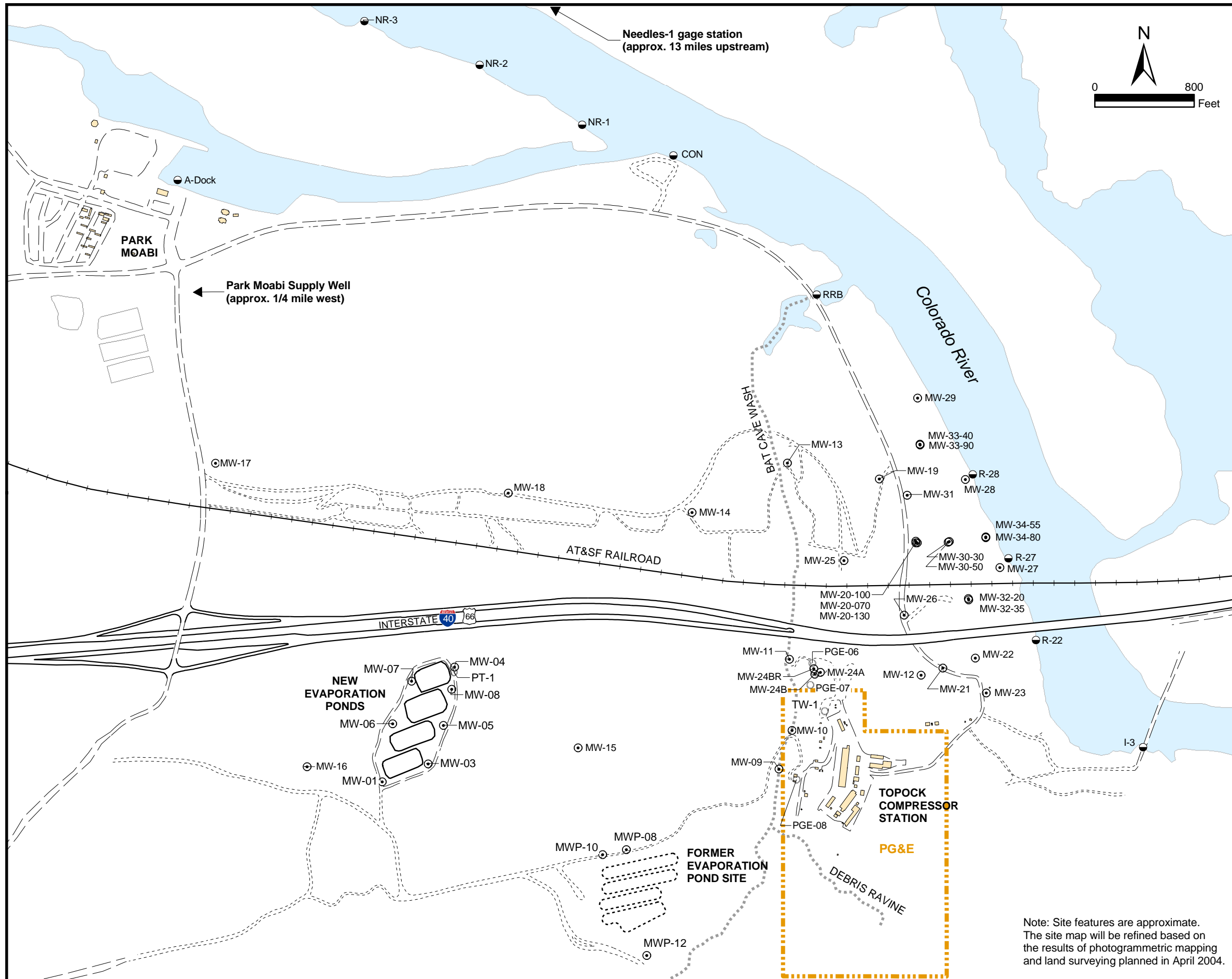
LocID	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
<b>R-27</b>	18-Sep-02	803	20.6	8.27	41	11.1
	12-Dec-02	1,003	13.6	9.42	---	---
	19-Mar-03	818	14.3	9.13	---	---
	10-Jun-03	980	21.1	9.88	-73	10.0
	10-Sep-03	1,030	21.2	7.77	-89	5.2
	11-Dec-03	686	13.4	8.30	-65	9.5
	03-Mar-04	---	14.1	8.27	129	4.4
	15-Mar-04	1,070	17.3	7.76	159	9.7
<b>R-28</b>	18-Sep-02	804	20.3	8.40	40	10.1
	12-Dec-02	1,012	14.6	9.04	---	---
	19-Mar-03	1,020	14.5	9.02	---	---
	10-Jun-03	980	20.2	9.86	-49	10.7
	10-Sep-03	1,130	21.7	8.06	-130	7.2
	11-Dec-03	936	13.5	8.38	-119	9.5
	03-Mar-04	---	13.6	8.24	131	3.6
	15-Mar-04	1,100	16.2	7.80	130	9.9
<b>RRB</b>	12-Dec-02	4,078	14.6	8.69	---	---
	20-Mar-03	1,000	18.1	9.58	---	---
	11-Jun-03	1,040	22.0	8.96	-64	10.6
	08-Sep-03	964	25.5	7.80	143	11.1
	08-Dec-03	1,350	14.3	6.12	163	9.0
	15-Mar-04	1,080	20.3	7.50	174	11.1

NOTES:

1.  $\mu\text{S/cm}$ : microSiemens per centimeter
2. ORP: oxidation reduction potential
3. mV: millivolts
4. mg/L: milligrams per liter.
5. All field measurements were collected during groundwater / surface water sampling using a Horiba U-22 water quality meter.
6. (---) = data not collected or not available.

**Figures**

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**Legend**

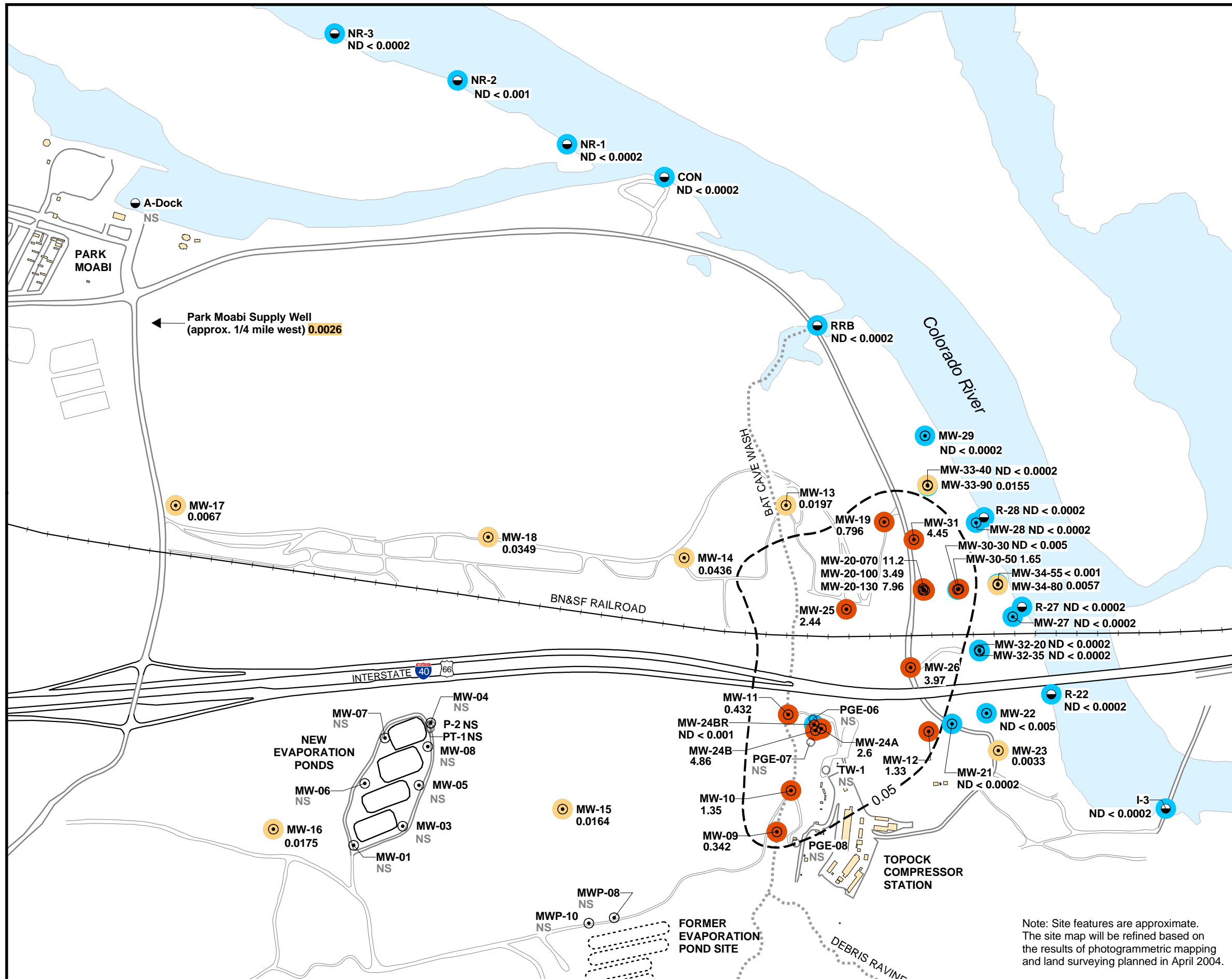
- ⊙ Groundwater Monitoring Well
- Test Well or Supply Well (Inactive)
- Surface Water Monitoring Location

Station ID	Monitored Zone	Well Depth (feet bgs)	Sampling Frequency
MW-09	Upper UA	87	Q
MW-10	Upper UA	94	Q
MW-11	Upper UA	83	Q
MW-12	Upper UA	48	Q
MW-13	Upper UA	49	Q
MW-14	Upper UA	131	Q
MW-15	Upper UA	201	Q
MW-16	Upper UA	218	Q
MW-17	Upper UA	150	Q
MW-18	Upper UA	105	Q
MW-19	Upper UA	66	Q
MW-20-70	Upper UA	70	Q
MW-20-100	Middle UA	99	Q
MW-20-130	Lower UA	131	Q
MW-21	Upper UA	60	Q, M
MW-22	Floodplain sediments	11	Q
MW-23	Fanglomerate	80	Q
MW-24A	Upper UA	124	Q
MW-24B	Lower UA	214	Q
MW-24BR	Bedrock	438	Q
MW-25	Upper UA	104	Q
MW-26	Upper UA	71	Q
MW-27	Floodplain sediments	17	Q, M, W
MW-28	Floodplain sediments	23	Q, M, W
MW-29	Floodplain sediments	39	Q, M
MW-30-30	Floodplain sediments	32	Q, M, W
MW-30-50	Middle UA	50	Q, M, W
MW-31	Upper UA	62	Q
MW-32-20	Floodplain sediments	20	Q, M
MW-32-35	Middle UA	35	Q, M
MW-33-40	Floodplain sediments	39	Q, M
MW-33-90	Middle UA	89	Q, M
MW-34-55	Middle UA	56	Q, M, W
MW-34-80	Lower UA	83	Q, M, W
PGE-6	UA	163	every 2 years (Q4)
PGE-7	Fangl / Bedrock	338	every 2 years (Q4)
PGE-8	Bedrock	575	every 2 years (Q4)
Park Moabi	UA	200	Q
<b>River Stations</b>			
A-Dock	slough		water level only
NR-1	upstream		Q, M
NR-2	upstream		Q, M
NR-3	upstream		Q, M
CON	upstream		Q, M
RRB	Bat Cave Wash		Q, M
R-28	shoreline area		Q, M
R-27	shoreline area		Q, M
R-22	shoreline area		Q, M
I-3	downstream		Q, M
UA = Unconsolidated Alluvial Aquifer		Q = Quarterly monitoring	
W = Weekly monitoring		M = Monthly monitoring	

Note: Site features are approximate. The site map will be refined based on the results of photogrammetric mapping and land surveying planned in April 2004.

**Figure 1**  
**Groundwater and Surface Water Monitoring Locations, March 2004**

GROUNDWATER MONITORING PROGRAM  
 PG&E TOPOCK COMPRESSOR STATION  
 NEEDLES, CALIFORNIA



**Legend**

- Groundwater Monitoring Well
- Groundwater Test Well or Supply Well (Inactive)
- Surface Water Monitoring Location

Sampling conducted March 15-19, 2004

**3.47** Concentration of hexavalent chromium [Cr(VI)] in milligrams per liter (mg/L)  
Results shown are maximum concentrations of primary and duplicate samples

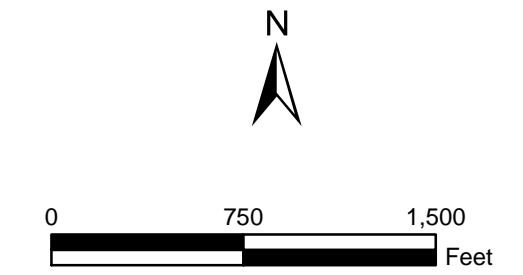
**ND < 0.0002** Cr(VI) not detected, at analytical detection (Method SW 7199)

**NS** Not sampled

**Cr(VI) Concentrations in Water Samples**

- Not detected at analytical reporting limit
- Concentration between reporting limit and 0.05 mg/L
- Concentration greater than 0.05 mg/L

Approximate outline of Cr(VI) in groundwater  $\geq 0.05$  mg/L (California drinking water standard for Total Chromium)



**Figure 2**  
Hexavalent Chromium Sampling Results  
March 2004 Quarterly Event  
Groundwater and Surface Water Monitoring

GROUNDWATER MONITORING PROGRAM  
PG&E TOPOCK COMPRESSOR STATION  
NEEDLES, CALIFORNIA

Note: Site features are approximate. The site map will be refined based on the results of photogrammetric mapping and land surveying planned in April 2004.