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May 31, 2005

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Subject: First Quarter 2005 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 2005 groundwater and surface water monitoring report for the Topock project. The monitoring event was conducted by PG&E during March 7-11, 2005, and included monitoring and sampling of 55 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,

Enclosure

Groundwater and Surface Water Monitoring Report, First Quarter 2005

**PG&E Topock Compressor Station
Needles, California**

Prepared for
Pacific Gas and Electric Company

May 31, 2005

CH2MHILL

**Groundwater and Surface Water Monitoring Report
First Quarter 2005**

**PG&E Topock Compressor Station
Needles, California**

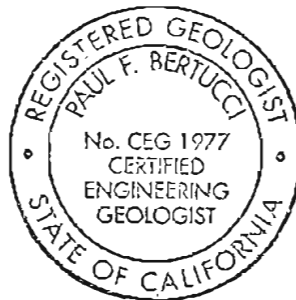
**Prepared for
Pacific Gas and Electric Company**

May 31, 2005

**This report was prepared under the supervision of a
California Certified Engineering Geologist**



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Acronyms and Abbreviations

CACA	Corrective Action Consent Agreement
COC	constituent of concern
Cr(T)	total dissolved chromium
Cr(VI)	hexavalent chromium
DTSC	California Department of Toxic Substances Control
GMP	Groundwater and Surface Water Monitoring Program
IM	Interim Measures
mg/L	milligrams per liter
µg/L	micrograms per liter
¹⁸ O	oxygen 18
PG&E	Pacific Gas and Electric Company
RCRA	Resource Conservation and Recovery Act of 1976
RFI	RCRA facility investigation
SAP	Sampling and Analysis Plan
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

1.0 Background

This report presents the results of the first quarter 2005 groundwater and surface water quarterly monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station during March 2005. The Topock Groundwater and Surface Water Monitoring Program (GMP) is part of a Resource Conservation and Recovery Act (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 (United States Environmental Protection Agency [USEPA] ID No. CAT080011729). The Topock Compressor Station is located in eastern San Bernardino County, 15 miles southeast of the city of Needles, California, as shown on Figure 1. (All figures and tables are provided at the end of this report.)

The groundwater and surface water monitoring activities at the Topock site were initiated in 1998 as a continuation of the RFI groundwater investigations (Ecology and Environment, Inc. 2004). In July 2004, at the request of DTSC (DTSC 2004a), PG&E submitted a *Sampling and Analysis Plan, Groundwater and Surface Water Monitoring* (SAP) (CH2M HILL 2004a) that describes the scope, schedule, and sampling and analysis procedures for the ongoing GMP. The SAP additionally recommended modifications to the monitoring locations, analyses, and sampling frequency for the GMP. On August 26, 2004, PG&E received DTSC approval to implement the sampling plan modifications proposed in the July 2004 SAP.

Before August 26, 2004, the wells and surface water monitoring locations were sampled for the site constituents of concern (COCs) defined in the 1996 CACA. The site COCs listed in the CACA include hexavalent chromium [Cr(VI)], total dissolved chromium [Cr(T)], copper, nickel, zinc, electrical conductivity (also referred to as specific conductance), and pH.

As proposed in the July 2004 SAP and approved by DTSC, the parameters currently analyzed in the quarterly GMP include the primary site COCs (Cr(VI), Cr(T), specific conductance and pH) as well as the California Code of Regulations Title 22 full list of metals (including copper, nickel, and zinc) at selected groundwater monitoring wells. Groundwater and surface water elevation data and field water quality data are also measured during the monitoring events.

Beginning in March 2004, as directed by DTSC, PG&E initiated groundwater extraction at the MW-20 bench, located adjacent to the floodplain area of the site, as part of an Interim Measures (IM) program. One of the provisions for the IM activity requested by DTSC was the collection of chemical data from selected sampling locations near the pumping operation (CH2M HILL 2004b). The chemical parameter performance monitoring initiated under the IM program is currently being performed as part of the GMP quarterly monitoring and reporting activity.

Figure 2 shows the locations of the PG&E Topock Compressor Station, site features, groundwater and surface water monitoring stations in the GMP, and other groundwater wells at the site. Table 1 summarizes information on well construction and sampling methods for all wells in the GMP and other groundwater wells at the site.

During January and February 2005, new groundwater monitoring wells were installed in the floodplain area of the site under the IM program. An approved IM *Contingency Plan for Sentry Well Groundwater Monitoring* (DTSC 2005a) was initiated in February 2005 as directed by DTSC in response to elevated levels of Cr(VI) and Cr(T) in one of the new monitoring wells. The Contingency Plan includes the weekly monitoring and sampling of four sentry wells in the floodplain and four consecutive weeks of monitoring and sampling of three surface water stations.

Under the GMP as of March 2005 (Figure 2), samples are collected from groundwater wells and surface water stations according to the following schedule:

- Fifty-five groundwater wells and nine surface water stations along the Colorado River are sampled quarterly.
- Twenty-four groundwater wells and the nine surface water stations are sampled monthly.
- Four groundwater wells on the floodplain are sampled biweekly (every two weeks).
- Four groundwater wells and three surface water stations are sampled weekly as part of the IM Contingency Plan.
- One test well and two background monitoring wells are sampled annually.
- Three inactive supply wells are sampled every two years (December events).

2.0 First Quarter 2005 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed during the first quarter 2005 reporting period and the specific groundwater and surface water analyses performed for the March 2005 quarterly monitoring event.

2.1 Summary of Monitoring and Sampling

The first quarter 2005 monitoring event was conducted from March 7 through March 11, 2005 and consisted of:

- Fifty-five groundwater wells and eight surface water stations in the quarterly monitoring program (Figure 2) were sampled for Cr(VI), Cr(T), specific conductance, and pH. A ninth surface water station, RRB, was not sampled because the station was dry. The station RRB was sampled during the April monthly monitoring event.
- The three monitoring wells installed for IM site investigation (MW-41S, MW-41M, and MW-41D) were sampled for Cr(VI), Cr(T), specific conductance, and pH.
- Three new monitoring wells (MW-27-60, MW-27-85 and MW-34-100) that were constructed in January and February 2005 were sampled as part of the IM Contingency Plan.
- Nine wells were sampled for the full list of Title 22 metals, following the California Code of Regulations Title 22, and in accordance with the July 2004 SAP (MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D).
- Fourteen wells (MW-20-70, MW-20-100, MW-20-130, MW-25, MW-26, MW-27-20, MW-28-25, MW-30-30, MW-30-50, MW-31-060, MW-32-20, MW-32-35, MW-34-55, MW-34-80) and two surface water locations (R-27, R-28) were sampled for the IM chemical performance monitoring parameters: total dissolved solids (TDS), oxygen 18 (¹⁸O), deuterium, chloride, sulfate, nitrate, bromide, alkalinity, calcium, magnesium, potassium, sodium, and boron.
- Groundwater and surface water elevations and field water quality data were collected for the GMP locations sampled.
- Duplicate samples were collected at seven monitoring wells (MW-10, MW-12, MW-18, MW-20-130, MW-24A, MW-26, and MW-39-70) to assess field sampling and analytical procedures.

The sampling methods, procedures, field documentation of the GMP sampling, water level measurements, and field water quality monitoring were performed in accordance with PG&E's *Sampling and Analysis Plan, Groundwater and Surface Water Monitoring*, dated July 14, 2004 (CH2M HILL 2004a).

During the monitoring period, two monthly sampling events (January and February), three biweekly sampling events, and three weekly sampling events were also conducted. The results of the monthly, biweekly, and weekly monitoring events performed during the first quarter 2005 have been issued in periodic data reports to DTSC and project stakeholders during the reporting period. The monitoring data presented in this report (Tables 2 through 7) include the results from the monthly, biweekly and weekly sampling events; however, only the data from the March 2005 quarterly monitoring event are discussed.

2.1.1 Site COC Analyses

All monitoring wells and surface water stations in the quarterly GMP were sampled for Cr(VI), Cr(T), specific conductance, and pH. The analyses for the site COC parameters were performed by Truesdail Laboratories, Inc., a California-certified analytical laboratory in Tustin, California. In accordance with the SAP, Cr(VI) and Cr(T) were analyzed using the following analytical methods:

- Method SW 7196A was used for samples collected from monitoring wells where prior monitoring has detected Cr(VI) concentrations above 50 micrograms per liter ($\mu\text{g/L}$). The minimum reporting limit for Method SW 7196A for undiluted samples is 10 $\mu\text{g/L}$.
- 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 50 $\mu\text{g/L}$. The minimum reporting limit for Cr(VI) using Method SW 7199 is 2 $\mu\text{g/L}$ for undiluted samples.
- Dissolved Cr(T) was analyzed using Method SW 6010B (reporting limit of 1 $\mu\text{g/L}$ for undiluted samples).
- Method USEPA 218.6 (equivalent to Method SW 7199), with a reporting limit of 2 $\mu\text{g/L}$, was used for the Cr(VI) water analysis from the domestic supply well at Park Moabi.

2.1.2 Title 22 Metals

As specified in the July 2004 SAP, nine selected monitoring wells were sampled for the California Code of Regulations Title 22 full list of metals in addition to Cr(T): antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc.

In accordance with DTSC (2004a), the groundwater samples for Title 22 dissolved metals analyses were field-filtered with a 0.45-micron inline filter. The metals analyses were performed by Truesdail Laboratories, Inc., Tustin, California.

2.1.3 IM Performance Monitoring Parameters

During the March 2005 quarterly event, select monitoring wells and surface water locations were sampled for specific chemical parameters in order to monitor the performance and effects of IM pumping at the MW-20 bench on groundwater chemistry in the floodplain area. Water samples were analyzed for:

- TDS (USEPA Method 160.1).
- Chloride, sulfate, nitrate and bromide (USEPA Method 300.0).

- Dissolved calcium, magnesium, potassium, sodium, and boron (Method SW 6010B).
- Alkalinity (USEPA Method 310.1).
- Stable isotopes ^{18}O and deuterium (CF-IRMS methods).

The performance monitoring parameter analyses were performed by Truesdail Laboratories, Inc (TDS), Zymax Laboratory (stable isotopes), and Emax (cations, anions, and alkalinity).

3.0 March 2005 Quarterly Monitoring Results

This section summarizes the results of the groundwater and surface water sampling completed for the Topock GMP March 2005 quarterly monitoring event. Figure 2 shows the locations of the GMP groundwater wells and the nine surface water locations sampled along the Colorado River.

The monitoring results and data presented include results for site COCs as well as the performance monitoring parameters and Title 22 metals. Laboratory data quality review, water level measurements, and water quality field parameter data are also presented in this section. The complete laboratory reports and analytical documentation are maintained in the project file and are available upon request.

3.1 Site COC Analytical Results

3.1.1 Groundwater Sampling

Table 2 presents the results of chromium and other site COC analyses for groundwater sampling from the March 2005 quarterly monitoring as well as historical data dating back to March 2004. During the March 2005 quarterly event, the maximum Cr(T) concentration detected was 8,630 µg/L in well MW-20-70, and the maximum Cr(VI) concentration detected was 8,940 µg/L in well MW-39-100. Overall, the March 2005 chromium sampling results for wells in the current quarterly GMP are consistent with prior sampling results at these locations (Table 2).

3.1.2 Surface Water Sampling

Table 3 presents the results of chromium and other site COC analyses for March 2005 surface water sampling as well as historical data dating back to March 2004. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine surface water stations sampled during the March 2005 quarterly event.

3.1.3 Hexavalent Chromium Results

Figures 3a through 3c present the Cr(VI) results distribution from the Upper, Middle, and Lower zones of the Alluvial Aquifer, respectively, and surface water locations during the first quarter 2005 GMP event. Figures 3a through 3c also show the approximate outline of the area where the concentration of Cr(VI) in the groundwater is greater than 50 µg/L (the California drinking water standard for total chromium). The March quarterly data indicates that in the Lower zone of the Aquifer, a portion of the plume has extended to the east and slightly to the west. Otherwise, the overall distribution and concentrations of Cr(VI) in the GMP wells are consistent and comparable with the prior quarterly monitoring data (CH2M HILL 2004c-e, 2005b).

3.2 Additional Analytes Results

3.2.1 Performance Monitoring Parameters

Table 4 presents the results of the IM performance monitoring analyses for selected groundwater wells in the floodplain area during the March 2005 and previous quarterly monitoring events. The stable isotopes ^{18}O and deuterium can often be used to distinguish water sources and assess groundwater and surface water mixing and evaporation effects. In the case of the Topock site, there are distinct isotopic signatures of river water and groundwater in the interior wells (e.g. the MW-20 wells and MW-25). Figure 2 shows the locations of the groundwater wells and the surface water stations sampled for the performance monitoring parameters.

For the majority of the floodplain wells, the performance monitoring parameters exhibit minor variations in concentrations over the March 2004 to March 2005 period. However, the concentrations of TDS, chloride, sulfate, and calcium measured in wells MW-20-100, MW-25, MW-26, MW-31-60, MW-32-35 showed decreases compared to historical values (Table 4). Well MW-27-20 showed increases in TDS, chloride, sulfate, calcium, magnesium, sodium and alkalinity concentrations. Further assessment of the performance monitoring wells will be conducted as additional quarterly monitoring data are collected.

3.2.2 Title 22 Metals

Table 5 presents the full-list Title 22 metal results for the GMP groundwater wells sampled during first quarter 2005 monitoring event and previous quarterly events. In addition to Cr(T), the trace metals detected in the March 2005 groundwater sampling were arsenic, barium, molybdenum, nickel, vanadium, and zinc. Excluding Cr(T) and arsenic, the dissolved concentrations of the trace metals detected during the first quarter 2005 sampling are below those of drinking water standards.

3.3 Analytical Data Quality Review

The laboratory analytical data generated from the first quarter 2005 monitoring event were independently reviewed by project chemists to assess data quality and identify deviations from analytical requirements. A detailed discussion of data quality for GMP sampling data is presented in the data validation reports, which are kept in the project file and are available upon request.

As discussed below, the completeness objectives were met for all method and analyte combinations except for hexavalent chromium. Samples from locations MW-34-80-56 and MW-34-100 were flagged due to exceedences of holding time requirements. No other significant analytical deficiencies were identified in the March 2005 monitoring data. With minor exceptions (noted below), the analyses and data quality meet the laboratory method quality control acceptance criteria. Overall, the analytical data for the March 2005 quarterly monitoring event are considered acceptable for the purpose of monitoring groundwater and surface water conditions at the site.

Matrix Interference: Matrix interference was encountered in groundwater samples from some of the monitoring wells. This interference affected the analyses' sensitivity for Cr(VI)

when using Method SW 7199. Twenty one well results from reflect adjusted reporting limits (Table 2) as a result of serial dilutions that were required to overcome the matrix interference and provide acceptable matrix spike recoveries.

Quantitation and Sensitivity: All method and analyte combinations met the project reporting limit objectives.

Holding Time Data Qualification: All method holding time requirements were met with the following exceptions: the hexavalent chromium analyses for MW-34-80 and MW-34-100 samples were analyzed just after the holding time limits. The non-detect result is qualified as estimated (UJ flagged) and the detect result is qualified as estimated (J flagged).

Matrix Spike Samples: Matrix spike acceptance criteria were all met.

3.4 Water Level Measurements

Table 6 presents the water level measurements and groundwater and surface water elevations collected during the March 2005 quarterly event. Water level measurements from prior monitoring events since March 2004 are summarized in this table for reference and comparison. Table 6 also lists water salinity data for the wells where water level data were measured. Groundwater salinity during this monitoring event ranged from 0.03 percent (well MW-27-20) to a maximum of 3.14 percent (well MW-30-30), a range that is consistent with results of prior monitoring. Because of the density differences in groundwater caused by to salinity variations, the groundwater elevations measured in the groundwater wells have been adjusted, or normalized, to a freshwater standard (Table 6).

As discussed in the first quarter 2004 monitoring report (CH2M HILL 2004c), water elevation data collected by manual water level methods at the Topock site are not sufficient to accurately illustrate hydraulic gradients in the Alluvial Aquifer (due to the hourly fluctuations of the river level and its effects on groundwater levels). Accordingly, hydraulic gradient maps are not included in this GMP monitoring report. However, since March 2004, a network of over 70 pressure transducers are being used to collect continuous records of water elevation data in the Alluvial Aquifer and Colorado River for the analysis and assessment of hydraulic data. This assessment is ongoing and is being reported as part of the IM activities. The average groundwater gradients for wells in the floodplain area are calculated monthly and are presented in the IM performance monitoring reports (CH2M HILL 2005c).

3.5 Field Parameter Data

A field parameter meter and flow-through cell are used to measure water quality parameters during well purging and groundwater sampling (CH2M HILL 2004a). Water quality field measurements are also recorded during surface water sampling. The field parameters measured include specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen. Table 7 summarizes the field water quality data measured during the March 2005 quarterly event and prior monitoring events. Field data sheets and chains of custody for the event are presented in Appendix A.

4.0 Status of Monitoring Activities

This section summarizes the scope and status of ongoing monitoring activities scheduled for the Topock GMP. Monitoring activities up to and including the first quarter event 2005 were conducted in accordance with the July 2004 SAP (CH2M HILL 2004a) and subsequent revisions. DTSC provided comments on the July 2004 SAP in a letter dated January 25, 2005 (DTSC 2005b). An updated Monitoring Plan, describing the objectives, scope, and schedule for the GMP, was submitted on April 11, 2005 (CH2M HILL 2005a). Pending DTSC approval, the new Monitoring Plan will be implemented for future GMP sampling events.

4.1 Quarterly Monitoring – 2005 Annual Event

The second quarter 2005 monitoring event is scheduled to be conducted June 13 through 17, 2005. Semi-annual, annual, and biennial monitoring will also occur during the second quarter 2005 event. This GMP monitoring event will implement the sampling and analysis scope presented in the April 2005 Monitoring Plan (CH2M HILL 2005a), upon DTSC's approval, and the IM chemical performance monitoring of selected locations (described in Section 2.0). The groundwater and surface water monitoring report for the June 2005 GMP event will be submitted approximately 10 to 12 weeks after sampling.

4.2 Monthly Monitoring

Beginning in November 2003, at the DTSC's request, PG&E has conducted monthly sampling for Cr(VI) and Cr(T) in selected monitoring wells in the Colorado River floodplain for more frequent monitoring of water quality in this area of the site. Requirements for the monthly monitoring activity were further modified to include surface water monitoring, as specified by DTSC (DTSC 2004b).

Since October 2004, monthly sampling events have been conducted in accordance with the July 2004 SAP. The monthly events include the sampling of 24 wells and nine surface water locations for Cr(VI) and Cr(T) (Figure 2). Following approval from DTSC of the April 2005 Monitoring Plan, monthly sampling events will include the sampling of 35 wells and nine surface water locations for Cr(VI) and Cr(T) (CH2M HILL 2005a).

4.3 Biweekly/Weekly Well Sampling

From January 29, 2004 to August 26, 2004, at the DTSC's request, PG&E conducted weekly sampling for Cr(VI) and Cr(T) in seven selected monitoring wells in the floodplain as part of IM data collection (DTSC 2004b). The results of the 2004 weekly well sampling were reported to DTSC and project stakeholders in periodic data transmittals and are presented in Tables 2 through 7 of this report.

On the basis of sampling results and monitoring needs, the July 2004 SAP proposed that the sampling activity at four select wells be changed from weekly to biweekly to better monitor the plume edge nearest the Colorado River. On August 26, 2004, DTSC approved the

transition from weekly to biweekly sampling. The four floodplain wells included in biweekly sampling are MW-28-90, MW-33-90, MW-34-80, and MW-36-100 (Figure 2). Biweekly sampling events have been conducted since August 2004.

In late February 2005, weekly sampling of selected floodplain monitoring wells and river sampling locations was resumed at DTSC direction and in accordance with the approved IM Contingency Plan (DTSC 2005a). Weekly sampling of four wells (MW-27-60, MW-27-85, MW-34-80, and MW-34-100) was initiated during the week of February 23, 2005. In May 2005, DTSC stated that MW-34-100 would be subsequently sampled weekly; MW-27-85 and MW-34-80 would be subsequently be sampled biweekly; and MW-27-60 would be subsequently be sampled monthly (DTSC 2005c). Groundwater monitoring of these sentry wells in the floodplain area will continue as required by DTSC.

5.0 References

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Tables

Table 1
Well Construction and Sampling Summary
PGE Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft btoc)	Depth to Water (ft toc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monitoring Wells										
MW-09	Bat Cave Wash	536.56	77 - 87	4 in PVC	88.0	81.1	CD pump	3	11	
MW-10	Bat Cave Wash	530.65	73.69 - 93.7	4 in PVC	95.0	75.2	CD pump	5	40	
MW-11	Bat Cave Wash	522.61	62.5 - 82.5	4 in PVC	88.0	67.1	CD pump	5	30	
MW-12	East of Station	484.01	27.5 - 47.5	4 in PVC	49.0	28.8	Ded. Redi-Flo AR	3	40	
MW-13	Bat Cave Wash	488.64	28.5 - 48.5	4 in PVC	50.0	32.8	CD pump	4	30	
MW-14	Bat Cave Wash	570.99	111 - 131	4 in PVC	132.0	115.3	CD pump	4	30	
MW-15	Bat Cave Wash	641.52	180.5 - 200.5	4 in PVC	202.0	185.4	CD pump	5	30	
MW-16	Near New Ponds	657.31	198 - 218	4 in PVC	218.0	201.7	CD pump	7	35	
MW-17	Bat Cave Wash	589.96	130 - 150	4 in PVC	150.5	133.8	CD pump	5	32	
MW-18	West Mesa	545.32	85 - 105	4 in PVC	110.0	89.4	CD pump	5	30	
MW-19	Bat Cave Wash	499.92	46 - 66	4 in PVC	66.0	44.2	CD pump	7	41	
MW-20-070	MW-20 bench	500.15	50 - 70	4 in PVC	70.0	46.2	CD pump	10	53	
MW-20-100	MW-20 bench	500.58	89.5 - 99.5	4 in PVC	99.5	49.1	CD pump	10	110	
MW-20-130	MW-20 bench	500.66	121 - 131	4 in PVC	132.0	47.3	CD pump	10	180	
MW-21	East of Station	505.55	36 - 59	4 in PVC	60.0	50.5	CD pump	10	10	low recharge well; purges dry at 1 casing volume
MW-22	Floodplain	460.72	5.5 - 11	2 in PVC	11.0	7.5	Peristaltic	0.2	4	
MW-23	East of Station	507.33	60 - 80	4 in PVC	80.0	53.0	CD Pump	5	20	low recharge well; purges dry at 1 casing volume
MW-24A	MW-24 Bench	567.16	104 - 124.5	4 in PVC	124.5	111.8	CD pump	3	30	
MW-24B	MW-24 Bench	564.76	194 - 213	4 in PVC	217.0	109.5	CD pump	7	210	
MW-24BR	MW-24 Bench	563.95	378 - 437	4 in PVC	440.0	108.3	CD pump	8	185	low recharge well; purges dry at 1 casing volume
MW-25	Near Bat Cave	542.9	84.5 - 104.5	4 in PVC	105.0	87.5	CD pump	5	32	
MW-26	Near Bat Cave	502.22	51.5 - 71.5	2 in PVC	72.0	47.1	CD pump	7	50	
MW-27-020	Floodplain	460.56	7 - 17	2 in PVC	17.0	4.4	Ded. Redi-Flo AR	1	7	
MW-27-060	Floodplain	461.375	47.3 - 57.3	2 in PVC	57.5	5.4	Redi-Flo AR	2	25	
MW-27-085	Floodplain	460.993	77.5 - 87.5	2 in PVC	97.5	5.0	Redi-Flo AR	2	36	
MW-28-025	Floodplain	466.85	13 - 23	2 in PVC	23.0	10.4	Ded. Redi-Flo AR	1	5	
MW-28-090	Floodplain	467.513	70 - 90	2 in PVC	95.0	11.2	Ded. Redi-Flo AR	2	50	
MW-29	Floodplain	485.21	29.5 - 39.5	2 in PVC	40.0	29.3	Ded. Mini-Monsoon	0.5	6	
MW-30-030	Floodplain	468.12	12 - 32	2 in PVC	32.0	13.1	Ded. Redi-Flo AR	1	10	
MW-30-050	Floodplain	468.81	40.5 - 50.5	4 in PVC	50.0	13.4	Ded. Redi-Flo AR	2	75	
MW-31-060	MW-20 Bench	496.81	41.5 - 61.5	4 in PVC	62.0	42.2	CD pump	10	40	
MW-31-135	MW-20 Bench	498.11	113 - 133	2 in PVC	133.3	46.4	Redi-Flo AR	3	60	
MW-32-020	Floodplain	461.51	10 - 19	2 in PVC	20.0	6.3	Ded. Redi-Flo AR	1.5	6	

Table 1
Well Construction and Sampling Summary
PGE Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft btoc)	Depth to Water (ft toc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monitoring Wells										
MW-32-035	Floodplain	461.63	26 - 36	4 in PVC	37.0	6.1	Ded. Redi-Flo AR	2	60	
MW-33-040	Floodplain	487.378	29 - 38	4 in PVC	39.0	31.5	Ded. Mini-Monsoon	0.5	4	
MW-33-090	Floodplain	487.55	69 - 88	4 in PVC	89.0	31.8	Ded. Redi-Flo AR	2	110	
MW-33-150	Floodplain	487.77	132 - 152	2 in PVC	152.0	35.4	Redi-Flo AR	3	60	
MW-33-210	Floodplain	487.25	190 - 210	2 in PVC	220.2	35.4	Redi-Flo AR	3	90	
MW-34-055	Floodplain	460.945	45 - 55	4 in PVC	56.0	5.5	Ded. Redi-Flo AR	2	100	
MW-34-080	Floodplain	461.197	73 - 82	4 in PVC	83.0	5.2	Ded. Redi-Flo AR	3	150	
MW-34-100	Floodplain	460.965	89.5 - 99.5	2 in PVC	114.5	5.2	Redi-Flo AR	2	55	
MW-35-060	North Area	484.19	41 - 61	2 in PVC	61.3	32.0	Redi-Flo AR	2	18	
MW-35-135	North Area	483.57	120 - 140	2 in PVC	140.3	31.4	Redi-Flo AR	3	66	
MW-36-020	Floodplain	469.26	10 - 20	1 in PVC	20.3	13.4	Peristaltic	0.5	4	
MW-36-040	Floodplain	469.614	30 - 40	1 in PVC	40.3	14.1	Peristaltic	0.5	4	
MW-36-050	Floodplain	469.596	46 - 51	1 in PVC	51.3	14.2	Peristaltic	0.75	5	
MW-36-070	Floodplain	469.251	60 - 70	1 in PVC	70.3	13.4	Peristaltic	0.5	7	
MW-36-090	Floodplain	469.612	80 - 90	1 in PVC	90.3	14.5	Peristaltic	0.4	10	
MW-36-100	Floodplain	469.638	88 - 98	2 in PVC	108.0	14.9	Ded. Redi-Flo AR	2	45	
MW-37D	Bat Cave Wash	486.19	180 - 200	2 in PVC	228.0	31.3	Redi-Flo AR	3	100	
MW-37S	Bat Cave Wash	485.97	64 - 84	2 in PVC	85.0	31.0	Redi-Flo AR	2	30	
MW-38D	Bat Cave Wash	525.31	163.3 - 183.3	2 in PVC	188.3	70.9	Redi-Flo AR	3	60	
MW-38S	Bat Cave Wash	525.51	75 - 95	2 in PVC	95.3	70.7	Redi-Flo AR	1	13	
MW-39-040	Floodplain	468.02	30 - 40	1 in PVC	40.3	12.3	Peristaltic	0.5	3.5	
MW-39-050	Floodplain	467.93	45 - 50	1 in PVC	50.3	13.8	Peristaltic	0.5	5	
MW-39-060	Floodplain	468	49 - 59	1 in PVC	59.3	12.7	Peristaltic	0.5	6	
MW-39-070	Floodplain	468.02	60 - 70	1 in PVC	70.3	12.9	Peristaltic	0.5	7	
MW-39-080	Floodplain	467.92	70 - 80	1 in PVC	80.3	13.4	Peristaltic	0.5	9	
MW-39-100	Floodplain	468.01	80 - 100	2 in PVC	118.3	13.1	Ded. Redi-Flo AR	2	45	
MW-40D	I-40 Median	566.08	240 - 260	2 in PVC	265.0	111.3	Redi-Flo AR	3	75	
MW-40S	I-40 Median	566.04	115 - 135	2 in PVC	135.3	110.8	Redi-Flo AR	2	13	
MW-41D	Bat Cave Wash	479.416	271 - 291	2 in PVC	311.0	24.4	Redi-Flo AR	3	145	
MW-41M	Bat Cave Wash	479.835	170 - 190	2 in PVC	190.0	24.2	Redi-Flo AR	3	85	
MW-41S	Bat Cave Wash	480.071	40 - 60	2 in PVC	60.0	24.1	Redi-Flo AR	2	42	
MW-42-030	Floodplain	463.808	9.8 - 29.8	2 in PVC	30.1	12.1	Redi-Flo AR	2	28	
MW-42-055	Floodplain	463.866	42.5 - 52.5	2 in PVC	52.8	12.1	Redi-Flo AR	3	21	

Table 1
Well Construction and Sampling Summary
PGE Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft btoc)	Depth to Water (ft toc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monitoring Wells										
MW-42-065	Floodplain	463.371	56.2 - 66.2	2 in PVC	81.2	11.8	Redi-Flo AR	3	36	
MW-43-025	Floodplain	462.54	15 - 25	2 in PVC	25.0	10.7	Redi-Flo AR	1	9	
MW-43-075	Floodplain	462.71	65 - 75	2 in PVC	75.0	10.3	Redi-Flo AR	2	28	
MW-43-090	Floodplain	462.76	80 - 90	2 in PVC	90.0	11.1	Redi-Flo AR	2	47	
Other Site Wells not in GMP										
MW-01	New Ponds	661.76	200.5 - 210.5	4 in PVC	212.0	206.8	air bladder pump			active PG&E pond monitoring well
MW-03	New Ponds	650.51	193 - 203	4 in PVC	203.0	195.9	air bladder pump			active PG&E pond monitoring well
MW-04	New Ponds	625.73	164.5 - 174.5	4 in PVC	174.5	170.4	air bladder pump			active PG&E pond monitoring well
MW-05	New Ponds	635.69	175.89 - 185.4	4 in PVC	185.4	180.1	air bladder pump			active PG&E pond monitoring well
MW-06	New Ponds	642.84	184.5 - 193.5	4 in PVC	194.0	187.2	air bladder pump			active PG&E pond monitoring well
MW-07	New Ponds	631.91	172.69 - 182.7	4 in PVC	182.7	176.9	air bladder pump			active PG&E pond monitoring well
MW-08	New Ponds	627.54	169 - 178	4 in PVC	179.4	171.8	air bladder pump			active PG&E pond monitoring well
MWP-08	Old Ponds	677.48	181 - 210	3 in PVC	210.0	189.5	---			inactive monitoring well
MWP-10	Old Ponds	675.81	195 - 235	3 in PVC	235.0	208.6	---			inactive monitoring well
MWP-12	Old Ponds	663.49	96 - 136	4 in PVC	143.0	107.8	---			inactive monitoring well
P-2	New Ponds	537.6	238.5 - 248.5	4 in PVC	249.0	169.8	---			inactive monitoring well
Test and Extraction Wells										
TW-01	Plan B Test	620.55	169 - 269	5 in PVC	269.0	65.8	CD pump	20	200	inactive pilot test well
TW-02D	MW-20 bench	499.57	113 - 148	6 in PVC	153.0	72.9	CD pump	70.1	160	active IM extraction well
TW-02S	MW-20 bench	499.05	42.5 - 92.5	6 in PVC	97.5	47.6	CD pump	6	75	IM extraction well
Water Supply Wells										
PGE-06	MW-24 Bench	563.32	110 - 180	14 in PVC	180.0	107.9	CD pump	24	650	inactive supply
PGE-07	MW-24 Bench	563.89	195 - 330	14 in PVC	330.0	108.7	CD pump	12	600	inactive supply
PGE-08	Station	596.01	405 - 554	8 in PVC	562.0	140.8	CD pump	20	1900	inactive injection
PM-03	Park Moabi	518.55	80 - 200	8 in PVC	210.0	61.3	active supply well			call Park Ranger to schedule sampling

Table 1
Well Construction and Sampling Summary
PGE Topock Groundwater Monitoring Program

Notes:

Depth to water shown is the most recently measured depth to water.

Well depth, and screen interval and water level depths rounded-off to whole-foot values.

BGS = below ground surface

MSL = mean sea level

BTOC = below top of polyvinyl chloride (PVC) casing

NA = not known or available

CD pump = dedicated constant-discharge electric submersible pump

Redi-Flo AR = adjustable-rate electric submersible pump

All GMP wells except low recharge wells and Park Moabi well are purged and sampled using well-volume

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-9	16-Mar-04	342	297	3,150	7.50
	09-Jun-04	359	334	3,160	7.82
	21-Sep-04	265	333	3,340	7.63
	17-Dec-04	---	294	3,450	7.51
	11-Jan-05	279	---	---	---
	08-Mar-05	343	316	3,010	7.74
MW-10	16-Mar-04	1350	1110	3,700	7.79
	10-Jun-04	1390	1300	3,670	7.88
	21-Sep-04	1560	1630	3,640	7.59
	17-Dec-04	---	1320	3,400	7.53
	11-Jan-05	1210	---	---	---
	08-Mar-05	1140	1020	3,370	7.66
	08-Mar-05 FD	1030	1020	3,420	7.72
MW-11	16-Mar-04	432	358	2,520	7.48
	10-Jun-04	424	394	2,280	7.54
	21-Sep-04	320	390	2,540	7.56
	17-Dec-04	---	387	2,500	7.52
	11-Jan-05	323	---	---	---
	08-Mar-05	396	392	2,310	7.89
MW-12	16-Mar-04	1330	1240	4,270	8.40
	09-Jun-04	1560	1570	4,570	8.31
	09-Jun-04 FD	1560	1390	4,420	8.29
	20-Sep-04	1390	1440	2,280	8.24
	10-Mar-05	925	883	3,980	8.62
	10-Mar-05 FD	925	841	4,000	8.65
MW-13	17-Mar-04	19.7	17.7	2,130	7.56
	17-Mar-04 FD	19.7	16.3	2,120	7.57
	09-Jun-04	18.8	17.6	1,970	7.61
	24-Sep-04	19.7	20.9	2,150	7.64
	24-Sep-04 FD	19.7	19.7	2,120	7.56
	16-Dec-04	19.3	16.0	1,910	7.78
	11-Mar-05	19.2	19.0	1,850	8.00
MW-14	16-Mar-04	43.6	26.8	1,550	7.79
	08-Jun-04	32.6	36.3	1,340	7.71
	08-Jun-04 FD	32.2	34.3	1,570	7.70
	20-Sep-04	33.6	30.3	1,520	7.74
	20-Sep-04 FD	33.4	31.4	1,540	7.76
	16-Dec-04	31.3	24.2	1,530	7.82
	09-Mar-05	32.0	32.5	1,510	7.89
MW-15	16-Mar-04	16.4	7.90	1,700	7.69
	07-Jun-04	8.00	9.40	1,500	7.77
	22-Sep-04	7.90	7.50	1,340	7.80
	17-Dec-04	7.70	6.50	1,330	7.76
	09-Mar-05	8.40	8.40	1,350	7.81

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-16	16-Mar-04	17.5	9.70	1,200	7.98
	09-Jun-04	9.00	9.80	1,130	8.13
	16-Dec-04	10.4	10.9	1,230	7.99
MW-17	16-Mar-04	6.70	6.40	1,840	7.81
	07-Jun-04	12.7	14.4	1,770	7.82
	16-Dec-04	11.8	9.80	1,800	7.90
MW-18	16-Mar-04	34.9	30.3	1,290	7.64
	09-Jun-04	24.5	25.6	716	7.86
	24-Sep-04	29.1	30.9	1,300	7.63
	16-Dec-04	30.6	25.2	1,270	7.80
	09-Mar-05	34.1	34.6	1,190	7.81
	09-Mar-05 FD	33.3	36.0	1,180	7.84
MW-19	16-Mar-04	796	589	2,350	7.93
	08-Jun-04	813	718	2,100	7.43
	20-Sep-04	732	994	2,300	7.69
	17-Dec-04	796	786	2,240	7.63
	07-Mar-05	1080	1010	2,150	7.73
MW-20-70	03-Mar-04	11200	10800	---	---
	15-Mar-04	11200	9770	3,650	7.56
	11-May-04	11000	12000	---	---
	11-Jun-04	12400	11300	3,870	7.62
	24-Sep-04	7680	7800	3,370	7.63
	16-Dec-04	7800	7840	3,250	7.62
	10-Mar-05	8280	8630	3,240	7.76
MW-20-100	03-Mar-04	2890	2400	---	---
	15-Mar-04	3490	2940	5,500	7.74
	11-May-04	4740	3960	---	---
	11-Jun-04	3910	3500	5,520	7.74
	24-Sep-04	5890	5480	4,970	7.70
	16-Dec-04	8130	7910	4,470	7.69
	10-Mar-05	8440	7770	4,180	8.03
MW-20-130	03-Mar-04	6050	5260	---	---
	15-Mar-04	7960	6670	14,900	7.76
	11-May-04	7710	7260	---	---
	11-Jun-04	7860	7270	12,000	7.75
	24-Sep-04	7380	7490	12,100	7.73
	27-Jan-05	8600	9400	12,300	7.88
	09-Mar-05	8730	8900	11,000	7.90
	09-Mar-05 FD	8810	8170	10,900	7.81
MW-21	16-Mar-04	ND (0.2) J	ND (1.0)	12,900	7.28
	14-Apr-04	ND (1.5) J	ND (8.0)	---	---
	11-May-04	ND (1.0)	ND (1.0) J	---	---
	08-Jun-04	ND (1.0) J	ND (1.0)	11,200	7.69
	14-Jul-04	ND (1.0)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-21	12-Aug-04	ND (1.0)	ND (1.0)	---	---
	21-Sep-04	ND (1.0)	ND (1.0)	10,000	7.34
	17-Dec-04	ND (0.2) J	ND (1.0)	9,460	7.17
	08-Mar-05	ND (1.0)	ND (1.0)	8,890	7.39
MW-22	19-Mar-04	ND (5.0)	2.20	26,600	6.96
	07-Jun-04	ND (2.0)	2.20	25,300	7.04
	23-Sep-04	ND (2.0)	6.60	32,700	6.99
	16-Dec-04	ND (1.0) J	7.00	34,300	6.88
	10-Mar-05	ND (2.0)	ND (1.0)	42,600	6.88
MW-23	16-Mar-04	3.30 J	ND (1.0)	17,400	7.24
	08-Jun-04	10.1	10.5	17,000	7.31
	21-Sep-04	6.80	7.90	18,000	7.39
	17-Dec-04	1.10	1.50	17,300	7.14
	08-Mar-05	ND (1.0)	2.90	17,000	7.35
MW-24A	17-Mar-04	2600	2270	3,480	7.71
	17-Mar-04	FD 2440	1970	3,520	7.72
	08-Jun-04	2660	2390	3,450	7.85
	20-Sep-04	2960	2960	3,380	7.72
	17-Dec-04	---	2890	3,400	7.63
	11-Jan-05	3040	---	---	---
	07-Mar-05	3390	3180	3,330	7.88
	07-Mar-05	FD 3360	3290	3,380	7.96
MW-24B	17-Mar-04	4860	3900	13,100	8.00
	08-Jun-04	5190	4910	13,300	7.78
	21-Sep-04	5100	4940	13,400	8.10
	17-Dec-04	---	4470	13,400	7.53
	17-Dec-04	FD 4790	4420	13,400	7.79
	11-Jan-05	5260	---	---	---
	07-Mar-05	5320	4950	13,400	8.13
MW-24BR	17-Mar-04	ND (1.0) J	4.80	13,800	8.19
	08-Jun-04	ND (1.0)	ND (1.0)	14,000	7.92
	21-Sep-04	ND (1.0)	ND (1.0)	15,000	8.00
	17-Dec-04	ND (1.0)	3.50	14,500	7.83
	08-Mar-05	ND (1.0)	ND (1.0)	14,000	8.14
MW-25	03-Mar-04	2270	2020	---	---
	17-Mar-04	2180	1920	1,740	7.55
	17-Mar-04	FD 2440	1940	1,780	7.54
	14-May-04	2300	1970	---	---
	09-Jun-04	2260	2150	1,700	7.38
	22-Sep-04	1970	1940	1,620	7.60
	09-Mar-05	1740	1600	1,410	7.67
MW-26	03-Mar-04	3720	3150	---	---
	16-Mar-04	3970	3580	3,540	7.62
	14-May-04	4060	4240	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-26	08-Jun-04		3890	3650	3,640	7.52
	08-Jun-04	FD	4000	3610	3,580	7.61
	22-Sep-04		3670	3710	3,650	7.56
	16-Dec-04		3790	3800	3,410	7.60
	08-Mar-05		2990	3160	3,180	7.84
	08-Mar-05	FD	2990	3050	3,090	7.77
MW-27-20	03-Mar-04		ND (0.2)	1.90	---	---
	10-Mar-04		ND (0.2)	ND (1.0)	---	---
	17-Mar-04		ND (0.2)	ND (1.2)	963	7.64
	24-Mar-04		ND (0.2)	ND (1.0)	---	---
	31-Mar-04		ND (0.2)	ND (1.0)	---	---
	07-Apr-04		ND (0.2)	ND (1.0)	---	---
	13-Apr-04		ND (0.2)	ND (1.0)	---	---
	21-Apr-04		ND (0.2)	ND (1.0)	---	---
	28-Apr-04		ND (0.2)	ND (1.0) J	---	---
	05-May-04		ND (0.2)	ND (1.0)	---	---
	12-May-04		ND (1.0)	ND (1.0)	---	---
	19-May-04		ND (0.2)	ND (1.0)	---	---
	26-May-04		ND (0.2)	ND (1.0)	---	---
	02-Jun-04		ND (0.2)	ND (1.0)	---	---
	08-Jun-04		ND (0.2)	ND (1.0)	929	7.61
	17-Jun-04		ND (0.2)	ND (1.0)	---	---
	23-Jun-04		ND (0.2)	ND (1.0)	---	---
	30-Jun-04		ND (0.2)	ND (1.0)	---	---
	07-Jul-04		ND (0.2)	ND (1.0)	---	---
	13-Jul-04		ND (0.2)	ND (1.0)	---	---
	21-Jul-04		ND (0.2)	ND (1.0)	---	---
	27-Jul-04		ND (0.2)	ND (1.0)	---	---
	04-Aug-04		ND (0.2)	ND (1.0)	---	---
	11-Aug-04		ND (0.2)	ND (1.0)	---	---
	19-Aug-04		ND (0.2)	ND (1.0)	---	---
	21-Sep-04		ND (0.2)	ND (1.0)	1,110	7.59
	19-Oct-04		ND (0.2)	ND (1.0)	---	---
	15-Nov-04		ND (0.2) R	ND (1.0)	---	---
	02-Dec-04		ND (0.2)	---	---	---
	15-Dec-04		ND (0.2)	ND (1.0)	1,130	7.91
	10-Jan-05		ND (0.2)	ND (1.0)	---	---
	09-Feb-05		ND (0.2)	ND (1.0)	---	---
	08-Mar-05		ND (0.2)	ND (1.0)	1,830	7.75
MW-27-60	01-Mar-05		ND (1.0)	ND (1.0) J	---	---
	08-Mar-05		ND (1.0)	ND (1.0)	---	---
	23-Mar-05		ND (1.0)	ND (1.0)	---	---
	29-Mar-05		ND (1.0)	ND (1.0)	---	---
MW-27-85	01-Mar-05		ND (1.0)	ND (1.0) J	---	---
	08-Mar-05		ND (2.0)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-27-85	23-Mar-05	ND (1.0)	ND (1.0)	---	---
	29-Mar-05	ND (1.0)	ND (1.0)	---	---
MW-28-25	04-Mar-04	ND (0.2)	ND (2.1)	---	---
	10-Mar-04	ND (0.2)	ND (1.2)	---	---
	17-Mar-04	ND (0.2)	ND (1.2)	2,050	7.56
	24-Mar-04	ND (0.2)	ND (1.0)	---	---
	31-Mar-04	ND (0.2)	ND (1.0)	---	---
	07-Apr-04	ND (0.2)	2.90	---	---
	13-Apr-04	ND (0.75) J	1.20	---	---
	21-Apr-04	ND (0.2)	ND (1.0)	---	---
	28-Apr-04	ND (0.2)	ND (1.0) J	---	---
	05-May-04	ND (0.2)	ND (1.0) J	---	---
	11-May-04	ND (0.2)	ND (1.0)	---	---
	20-May-04	ND (0.2)	2.50	---	---
	26-May-04	ND (0.2)	ND (1.0)	---	---
	02-Jun-04	ND (0.2)	ND (1.0)	---	---
	07-Jun-04	ND (0.2)	ND (1.0)	1,340	7.54
	16-Jun-04	ND (0.2)	ND (1.0)	---	---
	23-Jun-04	ND (0.2)	ND (1.0)	---	---
	30-Jun-04	ND (0.2)	ND (1.0)	---	---
	07-Jul-04	ND (0.2)	ND (1.0)	---	---
	13-Jul-04	ND (0.2)	ND (1.0)	---	---
	21-Jul-04	ND (0.2)	ND (1.0)	---	---
	27-Jul-04	ND (0.2)	ND (1.0)	---	---
	04-Aug-04	ND (0.2)	ND (1.0)	---	---
	11-Aug-04	ND (0.2)	ND (1.0)	---	---
	19-Aug-04	ND (0.2)	ND (1.0)	---	---
	20-Sep-04	ND (0.2)	ND (1.0)	1,270	7.44
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	02-Dec-04	ND (0.2)	---	---	---
	14-Dec-04	ND (0.2)	ND (1.0)	1,260	7.80
	11-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	10-Mar-05	ND (0.2)	ND (1.0)	1,290	7.75
MW-28-90	29-Apr-04	ND (1.0)	2.40	9,900	---
	10-Jun-04	ND (1.0)	ND (1.0)	---	---
	26-Aug-04	ND (1.0)	2.10	---	---
	09-Sep-04	ND (1.0)	ND (1.0)	---	---
	20-Sep-04	ND (1.0)	ND (1.0)	10,000	7.65
	06-Oct-04	ND (1.0)	ND (1.0)	---	---
	19-Oct-04	ND (1.0)	1.10	---	---
	02-Nov-04	ND (1.0)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	02-Dec-04	ND (1.0)	ND (1.0)	---	---
	13-Dec-04	ND (0.2) J	ND (1.0)	9,900	7.87

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-28-90	29-Dec-04	ND (1.0)	ND (1.0)	---	---
	11-Jan-05	ND (1.0)	ND (1.0)	---	---
	27-Jan-05	ND (1.0)	5.10	---	---
	08-Feb-05	ND (1.0)	ND (1.0)	---	---
	22-Feb-05	ND (1.0)	ND (1.0)	---	---
	07-Mar-05	ND (1.0)	ND (1.0)	9,520	7.89
	22-Mar-05	ND (1.0)	ND (1.0)	---	---
MW-29	18-Mar-04	ND (0.2)	ND (1.0)	8,210	7.28
	13-Apr-04	ND (0.2)	ND (1.0)	---	---
	11-May-04	ND (0.2)	2.90	---	---
	09-Jun-04	ND (0.2)	ND (1.0)	2,860	7.62
	13-Jul-04	ND (0.2)	ND (1.0)	---	---
	11-Aug-04	ND (0.2)	ND (1.0)	---	---
	20-Sep-04	ND (0.2)	ND (1.0)	2,850	7.41
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	02-Dec-04	ND (0.2)	---	---	---
	14-Dec-04	ND (0.2) J	ND (1.0)	8,050	7.51
	11-Jan-05	ND (1.0)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	3.00	---	---
	09-Mar-05	ND (2.0)	ND (1.0)	24,900	7.32
MW-30-30	04-Mar-04	ND (5.0)	ND (1.0)	---	---
	11-Mar-04	ND (5.0) J	ND (2.3)	---	---
	18-Mar-04	ND (5.0)	ND (1.0)	43,200	6.98
	24-Mar-04	ND (5.0)	ND (1.0)	---	---
	31-Mar-04	ND (10)	1.40	---	---
	07-Apr-04	ND (5.0) J	1.10	---	---
	14-Apr-04	ND (3.8) J	ND (1.3)	---	---
	21-Apr-04	ND (7.5)	2.00	---	---
	28-Apr-04	ND (5.0)	1.10	---	---
	05-May-04	ND (5.0)	ND (1.0)	---	---
	12-May-04	ND (5.0)	ND (1.0)	---	---
	20-May-04	ND (5.0)	1.90	---	---
	26-May-04	ND (5.0)	2.40	---	---
	03-Jun-04	ND (5.0)	1.40	---	---
	09-Jun-04	ND (5.0)	ND (1.0)	34,500	7.53
	16-Jun-04	ND (5.0)	ND (1.0)	---	---
	24-Jun-04	ND (5.0)	ND (1.0)	---	---
	01-Jul-04	ND (5.0)	ND (1.0)	---	---
	08-Jul-04	ND (5.0)	1.70	---	---
	14-Jul-04	ND (5.0)	ND (1.0)	---	---
	22-Jul-04	ND (5.0)	ND (1.0)	---	---
	28-Jul-04	ND (5.0)	ND (1.0)	---	---
	04-Aug-04	ND (5.0)	ND (1.0)	---	---
	12-Aug-04	ND (5.0)	ND (1.0)	---	---
	19-Aug-04	ND (5.0)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-30-30	23-Sep-04	ND (5.0)	ND (1.0)	47,800	7.04
	20-Oct-04	ND (5.0)	ND (1.0)	---	---
	16-Nov-04	ND (5.0)	ND (1.0)	---	---
	15-Dec-04	ND (5.0)	ND (1.0)	56,800	6.97
	11-Jan-05	ND (5.0)	ND (1.0)	---	---
	09-Feb-05	ND (5.0)	ND (1.0)	---	---
	10-Mar-05	ND (5.0)	ND (1.0)	57,300	7.00
MW-30-50	05-Mar-04	83.1	41.2	---	---
	05-Mar-04	FD 104	60.6	---	---
	11-Mar-04	984	744	---	---
	18-Mar-04	1650	1410	9,990	7.32
	18-Mar-04	FD 1520	1300	9,970	7.32
	25-Mar-04	2310	2240	---	---
	01-Apr-04	2080	1820	---	---
	08-Apr-04	1740	1700	---	---
	08-Apr-04	FD 1750	1680	---	---
	15-Apr-04	1980	2130	---	---
	15-Apr-04	FD 1920	2050	---	---
	22-Apr-04	1950 J	1870	---	---
	29-Apr-04	1810	1930	---	---
	06-May-04	1970	2080	---	---
	14-May-04	2010	1730	---	---
	14-May-04	FD 1870	1650	---	---
	20-May-04	1720	1860	---	---
	27-May-04	1650	1530	---	---
	03-Jun-04	1960	2070	---	---
	09-Jun-04	1710	1640	9,880	7.53
	09-Jun-04	FD 1690	1640	9,950	7.41
	16-Jun-04	1550	1700	---	---
	24-Jun-04	1440	1730	---	---
	01-Jul-04	1590	1420	---	---
	08-Jul-04	---	1740	---	---
	15-Jul-04	1170	1140	---	---
	15-Jul-04	FD 1190	1160	---	---
	22-Jul-04	1290	1430	---	---
	28-Jul-04	1150	1100	---	---
	05-Aug-04	883	809	---	---
	05-Aug-04	FD 893	781	---	---
	12-Aug-04	756	689	---	---
	12-Aug-04	FD 752	790	---	---
	20-Aug-04	729	970	---	---
	23-Sep-04	831	739	10,300	7.38
	23-Sep-04	FD 774	754	10,300	7.36
	21-Oct-04	487	464	---	---
	17-Nov-04	243	257	---	---
	15-Dec-04	29.4	33.9	10,500	7.48

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-30-50	15-Dec-04	FD	26.2	36.5	10,500	7.43
	11-Jan-05		ND (10)	ND (1.0)	---	---
	11-Jan-05	FD	ND (1.0)	ND (1.0)	---	---
	09-Feb-05		ND (10)	1.60 J	---	---
	09-Feb-05	FD	ND (1.0)	11.2 J	---	---
	10-Mar-05		ND (1.0)	ND (1.0)	10,200	7.29
MW-31-60	03-Mar-04		3970	3370	---	---
	16-Mar-04		4450	3230	3,020	7.63
	14-May-04		3610	3800	---	---
	08-Jun-04		3510	3300	2,890	7.66
	22-Sep-04		3090	3070	2,880	7.66
	16-Nov-04		2920	3250	---	---
	16-Dec-04		2910	2680	2,750	7.75
	09-Mar-05		2700	2550	2,530	7.93
MW-31-135	16-Apr-04		331	378	11,800	---
	16-Apr-04	FD	354	396	---	---
	10-Jun-04		266	261	---	---
	23-Sep-04		282	246	11,200	7.95
	14-Dec-04		410 J	407	11,300	7.90
	10-Mar-05		422	403	10,900	8.09
MW-32-20	04-Mar-04		ND (1.0)	ND (1.9)	---	---
	18-Mar-04		ND (0.2) J	ND (1.0)	9,300	6.85
	13-Apr-04		ND (0.75) J	ND (1.0)	---	---
	12-May-04		ND (1.0)	ND (1.0)	---	---
	07-Jun-04		ND (1.0)	ND (1.0)	7,080	6.88
	13-Jul-04		ND (1.0)	ND (1.0)	---	---
	11-Aug-04		ND (2.0)	ND (1.0)	---	---
	20-Sep-04		ND (2.0)	ND (1.0)	27,800	7.00
	19-Oct-04		ND (1.0)	ND (1.0)	---	---
	15-Nov-04		ND (1.0) R	ND (1.0)	---	---
	02-Dec-04		ND (1.0)	---	---	---
	14-Dec-04		ND (1.0) J	ND (1.0)	24,600	7.08
	10-Jan-05		ND (1.0)	ND (1.0)	---	---
	07-Feb-05		ND (1.0)	ND (1.0)	---	---
	09-Mar-05		ND (2.0)	ND (1.0)	22,100	7.09
MW-32-35	04-Mar-04		ND (1.0)	ND (1.5)	---	---
	18-Mar-04		ND (0.2)	ND (1.0)	6,720	7.16
	13-Apr-04		ND (0.75) J	1.70	---	---
	12-May-04		ND (1.0)	ND (1.0)	---	---
	08-Jun-04		ND (1.0)	ND (1.0)	6,990	7.17
	14-Jul-04		ND (1.0)	ND (1.0)	---	---
	11-Aug-04		ND (1.0)	ND (1.0)	---	---
	21-Sep-04		ND (1.0)	ND (1.0)	7,530	7.19
	19-Oct-04		ND (1.0)	ND (1.0)	---	---
	15-Nov-04		ND (1.0) R	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-32-35	02-Dec-04	ND (1.0)	---	---	---
	15-Dec-04	ND (1.0)	ND (1.0)	6,580	7.61
	10-Jan-05	ND (1.0)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	ND (1.0)	---	---
	09-Mar-05	ND (1.0)	ND (1.0)	6,460	7.42
MW-33-40	18-Mar-04	ND (0.2)	ND (1.0)	5,420	8.29
	14-Apr-04	ND (0.75) J	ND (4.9)	---	---
	12-May-04	ND (1.0)	ND (1.0)	---	---
	09-Jun-04	ND (1.0)	ND (1.0)	3,970	8.44
	13-Jul-04	ND (0.2)	ND (1.0)	---	---
	11-Aug-04	ND (1.0)	ND (1.0)	---	---
	21-Sep-04	ND (1.0)	ND (1.0)	17,400	7.77
	20-Oct-04	ND (1.0)	ND (1.0)	---	---
	16-Nov-04	ND (1.0)	ND (1.0)	---	---
	15-Dec-04	ND (0.2) J	ND (1.0)	8,380	7.98
	11-Jan-05	ND (1.0)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	ND (1.0)	---	---
	09-Mar-05	ND (1.0)	ND (1.0)	5,530	8.23
MW-33-90	18-Mar-04	15.5	11.4	7,970	7.74
	14-Apr-04	12.1	12.0	---	---
	06-May-04	15.8 J	12.3	---	---
	06-May-04 FD	15.7 J	12.6	---	---
	13-May-04	16.1	13.5	---	---
	13-May-04 FD	15.2	12.5	---	---
	20-May-04	14.5	14.4	---	---
	20-May-04 FD	14.6	16.4	---	---
	26-May-04	14.2	14.8	---	---
	26-May-04 FD	13.4	13.9	---	---
	03-Jun-04	15.0	17.2	---	---
	03-Jun-04 FD	15.4	16.8	---	---
	10-Jun-04	14.1	16.7	6,560	8.01
	16-Jun-04	14.0	12.8	---	---
	24-Jun-04	13.0	13.2	---	---
	24-Jun-04 FD	12.8	16.0	---	---
	01-Jul-04	14.6	16.1	---	---
	08-Jul-04	14.2	14.4	---	---
	08-Jul-04 FD	13.8	16.4	---	---
	14-Jul-04	14.6	12.6	---	---
	22-Jul-04	13.7	12.3	---	---
	28-Jul-04	13.8	12.7	---	---
	28-Jul-04 FD	14.0	12.1	---	---
	05-Aug-04	14.3	14.1	---	---
	12-Aug-04	14.8	12.8	---	---
	20-Aug-04	14.6	14.8	---	---
	20-Aug-04 FD	14.4	13.5	---	---
	26-Aug-04	14.9	12.3	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-33-90	08-Sep-04	13.5	12.0	---	---
	21-Sep-04	14.0	14.0	9,320	7.78
	06-Oct-04	12.0	13.7	---	---
	20-Oct-04	15.6	14.1	---	---
	02-Nov-04	17.6	18.2	---	---
	02-Nov-04 FD	17.4	16.8	---	---
	16-Nov-04	14.8	12.7	---	---
	02-Dec-04	15.6	13.1	---	---
	14-Dec-04	16.0	14.8	8,130	7.83
	29-Dec-04	16.7	13.7	---	---
	11-Jan-05	18.2	14.8	---	---
	27-Jan-05	17.7	14.4	---	---
	07-Feb-05	20.2	14.9	---	---
	22-Feb-05	19.0	18.3	---	---
	09-Mar-05	18.6	18.2	8,090	7.80
	22-Mar-05	18.9	19.2	---	---
MW-34-55	04-Mar-04	ND (1.0)	ND (1.7)	---	---
	11-Mar-04	ND (1.0)	ND (1.3)	---	---
	17-Mar-04	ND (1.0) J	ND (1.0)	10,600	7.38
	24-Mar-04	ND (2.0)	6.50	---	---
	31-Mar-04	ND (1.0) J	ND (1.0)	---	---
	07-Apr-04	ND (1.0)	ND (1.0)	---	---
	15-Apr-04	ND (1.5) J	ND (1.0)	---	---
	22-Apr-04	ND (1.5) J	ND (1.0)	---	---
	29-Apr-04	ND (2.0)	ND (1.0)	---	---
	29-Apr-04 FD	ND (1.0)	ND (1.0)	---	---
	06-May-04	ND (1.0)	ND (1.0)	---	---
	13-May-04	ND (1.0)	ND (1.0)	---	---
	19-May-04	ND (1.0)	1.50	---	---
	27-May-04	ND (1.0)	ND (1.0)	---	---
	02-Jun-04	ND (1.0)	ND (1.0)	---	---
	08-Jun-04	ND (1.0)	ND (1.0)	9,460	7.43
	17-Jun-04	ND (1.0)	ND (1.0)	---	---
	23-Jun-04	ND (1.0)	ND (1.0)	---	---
	30-Jun-04	ND (1.0)	ND (1.0)	---	---
	07-Jul-04	ND (1.0)	ND (1.0)	---	---
	14-Jul-04	ND (1.0)	ND (1.0)	---	---
	21-Jul-04	ND (1.0)	ND (1.0)	---	---
	27-Jul-04	ND (1.0)	ND (1.0)	---	---
	04-Aug-04	ND (1.0)	ND (1.0)	---	---
	11-Aug-04	ND (1.0)	ND (1.0)	---	---
	19-Aug-04	ND (1.0)	ND (1.0)	---	---
	22-Sep-04	ND (1.0)	ND (1.0)	8,920	7.47
	20-Oct-04	ND (1.0)	ND (1.0)	---	---
	16-Nov-04	ND (1.0)	ND (1.0)	---	---
	15-Dec-04	ND (0.2) J	ND (1.0)	9,120	7.68

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-34-55	12-Jan-05	ND (1.0)	ND (1.0)	---	---
	09-Feb-05	ND (1.0)	ND (1.0)	---	---
	10-Mar-05	ND (1.0)	ND (1.0)	9,140	7.80
MW-34-80	05-Mar-04	25.6	25.6	---	---
	11-Mar-04	5.00	7.10	---	---
	11-Mar-04	FD 7.30	7.20	---	---
	17-Mar-04	5.70	6.00	13,900	7.61
	25-Mar-04	3.40 J	9.20 J	---	---
	25-Mar-04	FD 3.70	4.90 J	---	---
	01-Apr-04	2.20 J	3.70	---	---
	08-Apr-04	2.00 J	2.50	---	---
	16-Apr-04	0.86	1.60	---	---
	22-Apr-04	0.84	1.30	---	---
	22-Apr-04	FD 0.87	1.30	---	---
	29-Apr-04	ND (2.0)	ND (1.0) J	---	---
	06-May-04	ND (1.0)	1.30	---	---
	13-May-04	ND (1.0)	ND (1.0) J	---	---
	13-May-04	FD ND (1.0)	ND (1.0)	---	---
	20-May-04	ND (1.0)	ND (1.0) J	---	---
	27-May-04	ND (1.0)	1.20	---	---
	02-Jun-04	ND (2.0)	ND (1.0)	---	---
	08-Jun-04	ND (1.0)	ND (1.0)	13,600	7.31
	17-Jun-04	ND (1.0)	ND (1.0)	---	---
	17-Jun-04	FD ND (1.0)	ND (1.0)	---	---
	23-Jun-04	ND (1.0)	ND (1.0)	---	---
	30-Jun-04	ND (1.0)	ND (1.0)	---	---
	30-Jun-04	FD ND (2.0)	ND (1.0)	---	---
	07-Jul-04	ND (1.0)	ND (1.0)	---	---
	15-Jul-04	ND (1.0)	ND (1.0)	---	---
	15-Jul-04	FD ND (1.0)	ND (1.0)	---	---
	21-Jul-04	ND (1.0)	ND (1.0)	---	---
	21-Jul-04	FD ND (1.0)	ND (1.0)	---	---
	27-Jul-04	ND (1.0)	ND (1.0)	---	---
	05-Aug-04	ND (1.0)	ND (1.0)	---	---
	12-Aug-04	ND (1.0)	ND (1.0)	---	---
	12-Aug-04	FD ND (1.0)	ND (1.0)	---	---
	20-Aug-04	ND (1.0)	ND (1.0)	---	---
	26-Aug-04	ND (1.0)	1.70	---	---
	08-Sep-04	ND (1.0)	ND (1.0)	---	---
	23-Sep-04	ND (1.0)	ND (1.0)	13,200	7.41
	23-Sep-04	FD ND (1.0)	ND (1.0)	12,600	7.46
	06-Oct-04	ND (1.0)	ND (1.0)	---	---
	20-Oct-04	ND (1.0)	ND (1.0)	---	---
	02-Nov-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	FD ND (1.0)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-34-80	02-Dec-04	ND (1.0)	ND (1.0)	---	---
	13-Dec-04	ND (1.0)	ND (1.0)	13,700	7.60
	29-Dec-04	ND (1.0)	ND (1.0)	---	---
	12-Jan-05	ND (1.0)	ND (1.0)	---	---
	27-Jan-05	ND (1.0)	ND (1.0)	---	---
	08-Feb-05	ND (1.0)	ND (1.0)	---	---
	22-Feb-05	ND (1.0)	ND (1.0)	---	---
	01-Mar-05	ND (1.0)	ND (1.0) J	---	---
	08-Mar-05	ND (1.0) J	ND (1.0)	14,200	7.73
	22-Mar-05	ND (1.0)	ND (1.0)	---	---
	29-Mar-05	ND (1.0)	ND (1.0)	---	---
MW-34-100	01-Mar-05	402	374	---	---
	01-Mar-05	FD 411	332	---	---
	08-Mar-05	425 J	490	---	---
	23-Mar-05	421	548	---	---
	29-Mar-05	73.9 J	110	---	---
	29-Mar-05	FD 56.7 J	106	---	---
MW-35-60	15-Apr-04	4.80	5.40	5,880	---
	10-Jun-04	19.7	18.2	---	---
	22-Sep-04	27.5	23.7	6,870	7.54
	13-Dec-04	26.8	27.0	6,700	7.67
	15-Mar-05	33.8	37.5	6,280	7.64
MW-35-135	15-Apr-04	ND (0.75)	ND (1.0)	10,800	---
	10-Jun-04	11.4	12.9	---	---
	23-Sep-04	7.60	6.30	10,500	7.72
	23-Sep-04	FD 7.90	6.60	10,700	7.75
	13-Dec-04	15.6 J	16.0	9,790	7.90
	13-Dec-04	FD 15.7 J	14.1	10,100	7.91
	15-Mar-05	23.0	21.4	9,960	7.80
MW-36-20	18-May-04	2.60	2.40	11,200	---
	15-Jun-04	ND (1.0)	ND (1.0)	---	---
	21-Sep-04	ND (1.0)	ND (1.0)	23,800	7.39
	19-Oct-04	ND (2.0)	2.40	---	---
	17-Nov-04	ND (1.0)	6.50 J	---	---
	17-Nov-04	FD ND (1.0)	ND (1.0) J	---	---
	14-Dec-04	ND (2.0) J	ND (1.0)	27,700	7.34
	11-Jan-05	ND (2.0)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	1.40	---	---
	09-Mar-05	ND (2.0)	ND (1.0)	24,400	7.43
MW-36-40	18-May-04	ND (1.0)	1.50	9,120	---
	16-Jun-04	ND (1.0)	ND (1.0)	---	---
	21-Sep-04	ND (1.0)	ND (1.0)	10,600	7.48
	19-Oct-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	ND (1.0)	ND (1.0)	---	---
	14-Dec-04	ND (1.0)	ND (1.0)	13,300	7.55

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-36-40	12-Jan-05	ND (0.2)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	ND (1.0)	---	---
	08-Mar-05	ND (1.0)	ND (1.0)	12,400	7.55
MW-36-50	19-May-04	ND (1.0)	1.20	8,700	---
	17-Jun-04	ND (1.0)	ND (1.0)	---	---
	21-Sep-04	ND (1.0)	ND (1.0)	9,650	7.54
	19-Oct-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	ND (1.0)	ND (1.0)	---	---
	14-Dec-04	ND (0.2) J	ND (1.0)	9,080	7.66
	12-Jan-05	ND (1.0)	ND (1.0)	---	---
	07-Feb-05	ND (1.0)	ND (1.0)	---	---
	08-Mar-05	ND (1.0)	ND (1.0)	9,430	7.39
MW-36-70	19-May-04	ND (1.0)	1.60	12,200	---
	17-Jun-04	ND (1.0)	1.20	---	---
	22-Sep-04	ND (1.0)	ND (1.0)	11,300	7.37
	20-Oct-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	ND (1.0)	ND (1.0)	---	---
	14-Dec-04	ND (0.2) J	ND (1.0)	10,600	7.37
	11-Jan-05	ND (1.0)	ND (1.0)	---	---
	07-Feb-05	ND (0.21)	1.20	---	---
	08-Mar-05	ND (1.0)	ND (1.0)	10,400	7.44
MW-36-90	18-May-04	3660	3350	14,700	---
	15-Jun-04	3270	3450	---	---
	23-Sep-04	3370	2780	14,800	7.75
	23-Sep-04	FD 3420	2970	14,300	7.75
	19-Oct-04	3200	2940	---	---
	17-Nov-04	2770	2700	---	---
	14-Dec-04	2270	2130	15,600	7.77
	14-Dec-04	FD 2270	2180	15,800	7.76
	12-Jan-05	1970	1780	---	---
	12-Jan-05	FD 1860	1800	---	---
	07-Feb-05	1720	1610	---	---
	09-Mar-05	1480	1380	15,800	7.55
MW-36-100	21-May-04	2980	3180	14,500	---
	15-Jun-04	2800	2490	---	---
	26-Aug-04	2370	2060	---	---
	26-Aug-04	FD 2370	2080	---	---
	09-Sep-04	2330	2190	---	---
	09-Sep-04	FD 2260	2160	---	---
	23-Sep-04	2710	2330	15,200	7.73
	06-Oct-04	2750	2420	---	---
	06-Oct-04	FD 2680	2410	---	---
	21-Oct-04	2640	2300	---	---
	21-Oct-04	FD 2620	2250	---	---
	02-Nov-04	2490	2240	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-36-100	17-Nov-04	2150	2270	---	---
	02-Dec-04	1860	1620	---	---
	02-Dec-04	FD	1750	---	---
	14-Dec-04	1790	1810	14,700	7.72
	29-Dec-04	1690	1580	---	---
	29-Dec-04	FD	1720	---	---
	12-Jan-05	1520 ~	1470 ~	---	---
	12-Jan-05	FD	1550	---	---
	27-Jan-05	1500	1420	---	---
	27-Jan-05	FD	1420	---	---
	09-Feb-05	1440	1420	---	---
	22-Feb-05	1430	1230	---	---
	22-Feb-05	FD	1390	---	---
	09-Mar-05	1380	1200	16,600	7.74
	22-Mar-05	1250	1180	---	---
	22-Mar-05	FD	1230	---	---
MW-37D	19-May-04	930	960	12,700	---
	11-Jun-04	951	854	---	---
	24-Sep-04	1250	1310	13,900	7.82
	24-Sep-04	FD	1250	14,200	7.85
	14-Dec-04	1480	1520	13,900	7.81
	14-Dec-04	FD	1480	13,900	7.80
	11-Mar-05	1610	1530	13,800	7.72
MW-37S	19-May-04	1.90	3.40	3,990	---
	19-May-04	FD	1.80	3,970	---
	10-Jun-04	2.80	2.70	---	---
	23-Sep-04	7.50	6.80	4,430	7.64
	13-Dec-04	6.20	7.00	4,480	7.93
	11-Mar-05	7.40	5.40	4,260	7.84
MW-38D	05-May-04	33.1	29.6	17,900	---
	10-Jun-04	76.9	83.5	---	---
	23-Sep-04	270	237	19,500	7.94
	14-Dec-04	279	264	20,500	7.87
	11-Mar-05	328	323	20,000	8.01
MW-38S	14-May-04	332	373	3,500	---
	11-Jun-04	509	493	---	---
	24-Sep-04	894	891	4,000	7.43
	14-Dec-04	964	1010	4,310	7.82
	11-Mar-05	919	938	3,840	7.80
MW-39-40	20-May-04	ND (1.0)	ND (1.0)	5,190	---
	18-Jun-04	ND (1.0)	ND (1.0)	---	---
	24-Sep-04	ND (1.0)	ND (1.0)	5,980	7.81
	20-Oct-04	ND (1.0)	ND (1.0)	---	---
	17-Nov-04	ND (0.2)	1.40	---	---
	15-Dec-04	ND (0.2)	ND (1.0)	5,920	7.70

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-39-40	12-Jan-05		ND (1.0)	2.60	---	---
	08-Feb-05		ND (0.2)	ND (1.0)	---	---
	09-Mar-05		ND (1.0)	ND (1.0)	6,040	7.62
MW-39-50	20-May-04		4140	3880	6,830	---
	18-Jun-04		3480	3920	---	---
	24-Sep-04		2960	2960	8,190	7.66
	20-Oct-04		2630	2650	---	---
	18-Nov-04		1850	1720	---	---
	15-Dec-04		1470	1480	11,000	7.48
	14-Jan-05		1000	1020	---	---
	08-Feb-05		819	800	---	---
	09-Mar-05		422	372	12,100	7.51
MW-39-60	20-May-04		2070	2090	6,360	---
	18-Jun-04		3540	3550	---	---
	18-Jun-04	FD	3480	3580	---	---
	24-Sep-04		3810	3610	7,410	7.74
	20-Oct-04		3590	3480	---	---
	20-Oct-04	FD	3670	3440	---	---
	18-Nov-04		3210	3130	---	---
	15-Dec-04		2800	2650	9,110	7.54
	14-Jan-05		1640	2880	---	---
	08-Feb-05		1880	1650	---	---
	09-Mar-05		1450	1300	11,200	7.45
MW-39-70	20-May-04		5880	6980	8,180	---
	18-Jun-04		8210	8490	---	---
	24-Sep-04		5590	6360	8,740	7.68
	21-Oct-04		6410	5940	---	---
	18-Nov-04		7600	6390	---	---
	15-Dec-04		5040	5860	9,190	7.61
	12-Jan-05		5310	4860	---	---
	08-Feb-05		6640	6800	---	---
	09-Mar-05		4310	4010 J	10,600	7.60
	09-Mar-05	FD	4340	5310 J	10,500	7.56
MW-39-80	20-May-04		10900	12900	11,200	---
	17-Jun-04		10000	10300	---	---
	24-Sep-04		8470	7570	10,800	7.58
	20-Oct-04		8310	7480	---	---
	18-Nov-04		9680	8850	---	---
	15-Dec-04		9430	8320	12,500	7.47
	14-Jan-05		8270	11200	---	---
	08-Feb-05		7750	8220	---	---
	08-Feb-05	FD	7890	7750	---	---
	09-Mar-05		7460	7240	12,400	7.56
MW-39-100	21-May-04		10300 J	11900	14,200	---
	21-May-04	FD	12900 J	13700	14,100	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-39-100	15-Jun-04		12500	11500	---	---
	15-Jun-04	FD	12300	12100	---	---
	23-Sep-04		11600	11400	13,700	7.66
	21-Oct-04		11400	10600	---	---
	17-Nov-04		11300	11100	---	---
	17-Nov-04	FD	11300	12700	---	---
	15-Dec-04		10900	11000	14,800	7.69
	12-Jan-05		10100 ~	9820 ~	---	---
	27-Jan-05		9930	10200	---	---
	09-Feb-05		9180	9480	---	---
	09-Feb-05	FD	9260	9710	---	---
	10-Mar-05		8940	8160	15,500	7.64
MW-40D	10-May-04		37.5	38.6	12,300	---
	14-Jun-04		25.6	28.8	---	---
	22-Sep-04		34.1	30.0	14,700	7.72
	22-Sep-04	FD	31.5	30.6	14,500	7.72
	16-Dec-04		38.5	33.2	14,900	7.57
	16-Dec-04	FD	36.8	32.4	15,000	7.59
	10-Mar-05		58.6	63.7	15,200	7.82
MW-40S	11-May-04		2.10	2.30	2,130	---
	15-Jun-04		4.70	4.70	---	---
	22-Sep-04		7.70	6.80	1,920	7.78
	16-Dec-04		8.20	7.80	1,970	7.77
	10-Mar-05		5.50	5.50	1,910	7.61
MW-41D	18-Nov-04		ND (2.0)	8.10	---	---
	15-Dec-04		ND (1.0)	ND (1.0)	19,500	7.49
	11-Mar-05		ND (1.0)	ND (1.0)	20,700	7.90
MW-41M	18-Nov-04		4.10	3.50	---	---
	15-Dec-04		5.30	5.20	13,800	7.64
	11-Mar-05		8.10	4.90	14,500	8.04
MW-41S	18-Nov-04		7.40	7.30	---	---
	16-Dec-04		11.8	11.0	4,950	7.90
	10-Mar-05		16.8	15.6	4,830	8.12
Park Moabi	16-Mar-04		2.60	2.10	1,260	7.87
	09-Jun-04		ND (0.2)	ND (1.0)	1,140	7.70
	22-Sep-04		9.40	7.70	1,260	7.88
	15-Dec-04		ND (0.2)	ND (1.0)	1,300	8.08
	11-Mar-05		0.35	ND (1.0)	1,260	8.03
TW-1	21-Dec-04		3820	3290	6,260	7.80
TW-2D	09-Jun-04		7410	6980	---	---
	29-Jul-04		5850	5510	---	---
	16-Dec-04		6280	6270	9,620	7.69
	09-Mar-05		5800	5620	9,400	7.87
TW-2S	09-Jun-04		7190	6820	---	---

Table 2
Groundwater COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
TW-2S	29-Jul-04	5820	5610	---	---
	16-Dec-04	5080	5050	3,270	7.70
	11-Mar-05	4400	4240	3,150	7.65

NOTES:

1. micrograms per liter (µg/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 for undiluted samples).
5. Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), 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. The December 2004 hexavalent chromium results for wells: MW-09, MW-10, MW-11 and MW-24A and MW-24B were rejected because they were analyzed out of holding time. Hexavalent chromium results from a January 2005 resample are presented.
10. Monitoring wells MW-12 and MW-25 were not sampled during the December 2004 event due to inactive pump and inaccessibility due to construction activities, respectively.
11. Extraction wells TW-2D and TW-2S were analyzed for hexavalent and total chromium, specific conductance and pH during the March 2005 quarterly event.

Table 3
Surface Water COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
CON	15-Mar-04	ND (0.2)	ND (1.0)	990	8.23
	14-Apr-04	ND (0.2)	ND (3.3)	---	---
	12-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	6,830	8.27
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	1,000	8.22
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.23
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	24-Feb-05	ND (0.2)	ND (1.0)	---	---
	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,040	8.34
I-3	15-Mar-04	ND (0.2)	ND (1.0)	997	8.23
	13-Apr-04	ND (0.2)	1.60	---	---
	13-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	1,030	8.31
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	997	8.24
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.26
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	08-Mar-05	ND (0.2)	ND (1.0)	1,050	8.31
NR-1	16-Mar-04	ND (0.2)	ND (1.0)	990	8.30
	13-Apr-04	ND (0.2)	ND (1.0)	---	---
	13-May-04	ND (0.2)	ND (1.0)	---	---
	11-Jun-04	ND (0.2)	ND (1.0)	1,040	7.88
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	1,010	8.22
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,040	8.36
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	08-Mar-05	ND (0.2)	ND (1.0)	1,030	8.35
NR-2	16-Mar-04	ND (1.0)	ND (1.0)	988	8.32
	13-Apr-04	ND (0.2)	ND (1.0)	---	---
	13-May-04	ND (0.2)	ND (1.0)	---	---
	11-Jun-04	ND (0.2)	ND (1.0)	1,040	8.04

Table 3
Surface Water COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
NR-2	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	995	8.21
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,010	8.11
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	08-Mar-05	ND (0.2)	ND (1.0)	1,020	8.34
NR-3	16-Mar-04	ND (0.2) J	ND (1.0)	986	8.32
	13-Apr-04	ND (0.2)	ND (1.0)	---	---
	13-May-04	ND (0.2)	ND (1.0)	---	---
	11-Jun-04	ND (0.2)	ND (1.0)	1,030	8.11
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	1,000	8.21
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.19
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	08-Mar-05	ND (0.2)	ND (1.0)	1,030	8.38
R-22	15-Mar-04	ND (0.2)	1.10	993	8.27
	14-Apr-04	ND (0.2)	ND (4.3)	---	---
	12-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	1,030	8.25
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	977	8.29
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.29
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	24-Feb-05	ND (0.2)	ND (1.0)	---	---
	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,010	8.38
R-27	03-Mar-04	ND (0.2)	ND (1.0)	---	---
	15-Mar-04	ND (0.2)	ND (1.0)	988	8.27
	14-Apr-04	ND (0.2)	ND (1.0)	---	---
	12-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	780	8.29
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	22-Sep-04	ND (0.2)	ND (1.0)	1,020	8.30

Table 3
Surface Water COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
R-27	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.29
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	24-Feb-05	ND (0.2)	ND (1.0)	---	---
	01-Mar-05	ND (0.2)	ND (1.0) J	---	---
	07-Mar-05	ND (0.2)	ND (1.0)	1,010	8.40
R-28	03-Mar-04	ND (0.2)	ND (1.0)	---	---
	15-Mar-04	ND (0.2)	ND (1.0)	981	8.27
	14-Apr-04	ND (0.2)	ND (1.1)	---	---
	14-Apr-04 FD	ND (0.2)	ND (1.2)	---	---
	12-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	1,040	8.25
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	22-Sep-04	ND (0.2)	ND (1.0)	1,030	8.30
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,020	8.25
	10-Jan-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-05	ND (0.2)	ND (1.0)	---	---
	08-Mar-05	ND (0.2)	ND (1.0)	1,020	8.34
RRB	15-Mar-04	ND (0.2)	1.60	992	8.16
	13-Apr-04	ND (0.2)	1.10	---	---
	13-May-04	ND (0.2)	ND (1.0)	---	---
	10-Jun-04	ND (0.2)	ND (1.0)	990	8.31
	15-Jul-04	ND (0.2)	ND (1.0)	---	---
	10-Aug-04	ND (0.2)	ND (1.0)	---	---
	23-Sep-04	ND (0.2)	ND (1.0)	1,100	7.88
	19-Oct-04	ND (0.2)	ND (1.0)	---	---
	15-Nov-04	ND (0.2) R	ND (1.0)	---	---
	13-Dec-04	ND (0.2)	ND (1.0)	1,080	8.16
	08-Feb-05	ND (0.2)	ND (1.0)	---	---

Table 3
Surface Water COC Sampling Results
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

NOTES:

1. micrograms per liter ($\mu\text{g/L}$)
2. microSiemens per centimeter ($\mu\text{S/cm}$)
3. ND = not detected at listed reporting limit
J = concentration or reporting limit estimated by laboratory or data validation
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), specific conductance (SW 9050), pH (SW 9040)
6. (---) = data not collected or not available
7. FD = field duplicate sample

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-20-70	03-Mar-04	2300	-6.5	-39.0	890	440	9.7	0.6	230	52	11	480	0.3	75
	03-Mar-04 FD	2300	-6.5	-53.0	890	440	9.7	0.6	220	51	11	460	0.3	72
	11-May-04	2100	-5.5	-53.0	800	450	10	ND (0.5)	210	48	9.7	490	0.4	76
	24-Sep-04	2200	-6.5	-57.0	824	402	9.7	ND (1)	180	58.5	12	430	0.2	74
	16-Dec-04	2080	-7.3	-60.0	753	374	9.68	0.604	177 J	52.5	9.05	410	0.497	70
	10-Mar-05	1940	-7.1	-59.0	740	378	9.98	ND (1)	198	55.4	9.89	431	0.412	81.7
MW-20-100	03-Mar-04	3400	-4.2	-38.0	1300	740	9.6	0.7	170	20	11	1100	1	82
	11-May-04	3600	-2.7	-37.0	1300	700	9.6	0.5	150	18	10	1100	1	81
	24-Sep-04	3000	-4.8	-44.0	1180	621	8.85	ND (1)	140	23	13	860	0.8	100
	16-Dec-04	2840	-5	-47.0	1050	562	8.5	0.654	152	23.4	16.6	772	0.971	90
	10-Mar-05	2490	-5.2	-49.0	466	511	9.98	ND (1)	133	19.8	8.98	712	0.859	84.2
MW-20-130	03-Mar-04	11000	-6.6	-60.0	6200	960	6.2	ND (2.5)	400	19	35	3500	1.7	45
	11-May-04	8300	-5	-49.0	3300	1000	9.8	ND (0.5)	280	14	26	2500	1.7	62
	24-Sep-04	7800	-4.4	-45.0	7240	2280	9.8	ND (4)	240	15	33	2400	1.9	66
	27-Jan-05	7350	-5.7	-48.0	3790	1140	10.4	3.16	313	16.1	43.5	2260	2.03	66
	09-Mar-05	5520	-5.8	-56.0	3120	1080	10.9	ND (1)	219	12.1	24.7	2250	1.9	68.9
	09-Mar-05 FD	6200	-5.4	-51.0	3080	1080	10.9	ND (1)	231	12.8	25.4	2390	1.99	68.9
MW-25	03-Mar-04	970	-7.7	-56.0	300	220	4.2	ND (0.5)	92	18	7.8	230	0.4	140
	14-May-04	1000	-8.9	-59.0	310	210	4.2	ND (0.5)	89	19	8	230	0.4	130
	09-Jun-04	---	---	---	---	---	---	---	108	17.1	---	---	0.376	---
	22-Sep-04	1000	-7.6	-58.0	296	196	3.93	0.42	81	16.6	7.4	230	ND (0.2)	140
	09-Mar-05	877	-8.4	-62.0	247	169	3.64	ND (0.5)	77.6	16.1	6.24	211	0.441	158
MW-26	03-Mar-04	1900	-6.7	-54.0	770	400	4.6	ND (0.5)	170	40	12	470	0.5	110
	14-May-04	9300	-8.4	-60.0	850	480	5.1	ND (0.5)	190	50	14	490	0.6	110
	22-Sep-04	2300	-6.7	-59.0	821	472	5.65	ND (1)	170	46	13	390	0.4	98
	16-Dec-04	2130	-8.6	-64.0	835	388	5	0.578	176	45.7	17.8	466	0.662	100
	08-Mar-05	1840	-8.8	-70.0	756	370	4.48	ND (0.5)	166	41.6	10.7	439	0.557	98.7
	08-Mar-05 FD	1800	-8.7	-70.0	708	338	4.45	ND (0.5)	166	40.9	11.4	438	0.559	96.1
MW-27-20	03-Mar-04	640	-11.7	-100.0	74	200	ND (0.4)	ND (0.5)	79	26	4	84	ND (0.2)	180
	12-May-04	570	-11.3	-98.0	72	200	ND (0.4)	ND (0.5)	77	25	3.7	87	ND (0.2)	170
	21-Sep-04	670	-12.3	-92.0	77.2	212	ND (0.2)	ND (0.2)	76	26	5	82	ND (0.2)	160

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-27-20	15-Dec-04	692	-11.9	-101.0	87.2	236	ND (0.5)	ND (0.5)	91.5	32.6	4.61	88.4	ND (0.2)	169
	08-Mar-05	1250	-12	-102.0	190	432	ND (0.5)	ND (0.5)	137	56.6	4.89	195	ND (0.2)	215
MW-28-25	04-Mar-04	1000	-11.3	-95.0	220	290	ND (0.4)	ND (0.5)	120	33	3.8	210	0.2	260
	11-May-04	800	-11.3	-95.0	110	270	ND (0.4)	ND (0.5)	110	29	3.9	120	ND (0.2)	240
	07-Jun-04	890	-12.5	-100.0	150	220	ND (0.4)	---	---	---	---	---	---	---
	20-Sep-04	850 J	-11.7	-89.0	99.1	286	ND (0.4)	ND (0.2)	110	30	4.6	120	ND (0.2)	210
	14-Dec-04	810	-12	-99.0	110	310	ND (0.5)	ND (0.5)	122	35.7	4.78	103	ND (0.2) J	202
	10-Mar-05	880	-12.2	-95.0	112	302	ND (0.5)	ND (0.5)	129	36.3	3.5	122	ND (0.2)	204
MW-30-30	04-Mar-04	36000	-9	-76.0	19000	4100	ND (4)	5.2	1000	1000	50	9600	3.6	570
	12-May-04	30000	-7.8	-71.0	14000	3000	ND (4)	ND (50)	1300	800	47	8300	2.8	610
	23-Sep-04	42000	-9.5	-73.0	22000	4500	ND (200)	ND (100)	900	890	76	11000	4.1	570
	15-Dec-04	45500	-9.5	-79.0	19900	4730	ND (5)	8.14	1300	1400	118	6110	7.84	458
	10-Mar-05	38800	-9.8	-79.0	16000	4270	ND (5)	7.91	1590	1600	95.4	13600	4.97	421
MW-30-50	05-Mar-04	6100	-6.4	-58.0	3000	750	1.2	ND (5)	280	120	16	1600	0.9	280
	05-Mar-04 FD	5900	-6.6	-56.0	2900	730	1.2	ND (5)	290	120	15	1600	0.9	280
	14-May-04	6300	-7.7	-54.0	2700	800	3.5	ND (5)	270	100	15	1700	1.2	180
	14-May-04 FD	6500	-7.5	-54.0	2600	800	3.5	ND (5)	270	110	16	1700	1.1	180
	23-Sep-04	6600	-7.3	-58.0	3330	742	1.58	ND (10)	290	100	18	1800	0.9	240
	23-Sep-04 FD	6800	-6.7	-58.0	3220	694	1.64	ND (10)	310	110	19	1900	0.9	240
	15-Dec-04	6750	-7.9	-63.0	3040	716	ND (0.5)	1.14	378	117	36.5	1720	1.39	249
	15-Dec-04 FD	6690	-7.8	-64.0	2920	725	ND (0.5)	1.13	372	114	37.8	1700	1.43	249
	10-Mar-05	6470 J	-8.3	-68.0	4660	672	ND (0.5)	1.03	335	107	16.5	2040	1.15	324
MW-31-60	03-Mar-04	1700	-8.1	-60.0	750	280	6.2	ND (0.5)	160	22	7.9	420	0.4	72
	14-May-04	1900	-9	-59.0	750	260	5.5	ND (0.5)	150	22	7.5	420	0.4	74
	22-Sep-04	1700	-8	-61.0	691	236	5.45	0.46	130	19	7.9	430	ND (0.2)	79
	16-Dec-04	1640	-8.7	-64.0	691	246	5.36	ND (0.5)	118	18.5	9.67	421	0.44	80
	09-Mar-05	1540	-8.6	-63.0	649	210	4.94	ND (0.5)	108	17.3	5.97	424	0.401	76.6
MW-32-20	04-Mar-04	6200	-8	-64.0	2900	540	ND (0.4)	ND (5)	520	180	13	1500	1.1	570
	12-May-04	5000	-7.1	-70.0	2100	130	ND (0.4)	ND (5)	510	180	16	1100	0.8	600
	20-Sep-04	21000 J	-7.3	-63.0	10200	3800	ND (0.4)	ND (100)	1100	420	45	4900	3	920
	14-Dec-04	16100	-8.2	-66.0	8890	1990	ND (5)	ND (5)	1140	400	46.8	3500	4.22 J	784

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-32-20	09-Mar-05	12500	-7.2	-65.0	6930	1660	ND (0.5)	3.51	838	302	36.9	4000	2.76	123
MW-32-35	04-Mar-04	4200	-8	-65.0	1900	470	ND (0.4)	ND (5)	340	99	13	1100	1	310
	12-May-04	4500	-6.9	-64.0	1900	460	ND (0.4)	ND (5)	330	94	12	1100	0.9	320
	21-Sep-04	4500	-8.7	-63.0	2150	422	ND (0.2)	ND (10)	320	89	14	990	0.9	310
	15-Dec-04	4120	-8.5	-67.0	1760	524	ND (0.5)	0.89	351	96.3	24.7 J	954	1.28	276
	09-Mar-05	3560	-8.2	-68.0	1770	465	ND (0.5)	0.845	312	85.5	13	944	1.07	260
MW-34-55	04-Mar-04	6700	-9.6	-77.0	3200	850	ND (0.4)	ND (5)	360	97	13	2000	1.2	270
	13-May-04	5700	-10.3	-77.0	2700	770	ND (0.4)	ND (5)	310	77	15	1900	1	270
	08-Jun-04	---	---	---	---	---	---	---	246	68.3	---	---	1.18	---
	22-Sep-04	5800	-11	-82.0	2700	732	ND (0.2)	ND (10)	260	85.2	17	1800	0.9	250
	15-Dec-04	5860	-10.9	-83.0	2390	743	ND (0.5)	0.743	288	69.9	33	1540	1.34	234
	10-Mar-05	6230	-10.8	-82.0	2620	739	ND (0.5)	0.654	366	71.3	29.1	1900	1.19	240
MW-34-80	05-Mar-04	8800	-8.9	-75.0	4700	1000	ND (0.4)	ND (5)	280	24	25	2600	1.7	180
	13-May-04	8800	-10.2	-77.0	3900	1000	ND (4)	ND (5)	390	54	27	2800	1.4	270
	13-May-04 FD	9100	-10.2	-76.0	4000	1000	ND (4)	ND (5)	390	53	27	2700	1.5	280
	08-Jun-04	---	---	---	---	---	---	---	396	56.6	---	---	1.72	---
	23-Sep-04	8900	-9.9	-79.0	4050	997	ND (10)	ND (10)	410	76	32	2800	1.4	290
	23-Sep-04 FD	9900	-9.6	-78.0	4170	998	ND (10)	ND (10)	410	84.3	35	2800	1.5	290
	13-Dec-04	---	---	---	---	---	---	---	455	55	40.4	2220	1.63	---
	08-Mar-05	6940	-10.4	-83.0	4180	1040	ND (0.5)	1.01	439	68.1	28	2750	1.65	304
	15-Mar-05	8980	---	---	3920	ND (5)	ND (1)	---	445	65.7	29.7	2990	---	288
Surface Water Stations														
R-27	03-Mar-04	630	-11.4	-86.0	87	250	ND (0.4)	ND (0.5)	77	28	4.4	94	ND (0.2)	140
	12-May-04	590	-11.4	-96.0	84	240	ND (0.4)	ND (0.5)	74	27	4.8	96	ND (0.2)	140
	22-Sep-04	680	-12.1	-98.0	88.4	237	0.38	ND (0.2)	77	29	4.8	99	ND (0.2)	130
	13-Dec-04	632	-11.4	-95.0	84.4	235	ND (0.5) R	ND (0.5)	79.6	31.4	4.95	86.5	ND (0.2) J	125
	07-Mar-05	669	-12.3	-102.0	92.7	244	ND (0.5)	ND (0.5)	82.8	31.3	4.72	108	ND (0.2)	136
R-28	03-Mar-04	670	-11.3	-90.0	87	250	0.5	ND (0.5)	78	28	4.4	93	ND (0.2)	140
	12-May-04	580	-11.5	-98.0	84	240	ND (0.4)	ND (0.5)	72	26	4.2	92	ND (0.2)	140
	22-Sep-04	680	-12.1	-99.0	104	240	0.38	ND (0.2)	79	30	4.9	99	ND (0.2)	130

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Surface Water Stations														
R-28	13-Dec-04	652	-11.1	-95.0	84.8	236	ND (0.5) R	ND (0.5)	79.9	31.5	4.93	86	ND (0.2) J	133
	08-Mar-05	651	-12.5	-102.0	90.4	231	ND (12.5)	ND (0.5)	83.7	31.4	5.02	107	ND (0.2)	132

NOTES:

1. FD = field duplicate sample
2. Results in milligrams per liter (mg/L), except Oxygen-18 and Deuterium, which are expressed as differences from global standards in parts per thousand.
3. Alkalinity reported as carbonate (CaCO₃). Nitrate reported as Nitrogen (N).
4. All metal results are dissolved concentrations except for selected unfiltered parameters noted with ^ (total metals concentration).
5. ND =parameter not detected at the listed reporting limit.
J - concentration or reporting estimated by laboratory or data validation
--- parameter not analyzed
6. Monitoring well MW-25 was not sampled during the December 2004 Quarterly Event due to trenching activities for the IM3 treatment plant.

Table 5
2005 Quarterly Groundwater Monitoring Results - Title 22 Metals
PG&E Topock Groundwater Monitoring Program

California MCL:		6	50	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000 *
Well ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-10	9/21/2004	ND (5.0)	ND (10)	45.8	ND (3.0)	ND (3.0)	ND (3.0)	1960	6.40	ND (5.0)	ND (0.2)	115	ND (5.0)	ND (10)	ND (3.0)	ND (15)	25.2	22.7
MW-10	12/17/2004	ND (5.0)	ND (10)	44.9	ND (3.1)	ND (3.1)	ND (3.1)	1300	ND (5.0)	ND (2.1)	ND (0.2)	100	ND (5.0)	ND (10)	61.8	ND (15)	40.0	54.9
MW-10	3/8/2005	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	1110	ND (5.0)	ND (2.1)	ND (0.2)	83.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	141	56.2
MW-10 FD	3/8/2005	ND (5.0)	ND (10)	49.3	ND (3.1)	ND (3.1)	ND (3.1)	1100	ND (5.0)	ND (2.1)	ND (0.2)	81.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	165	65.6
MW-11	9/21/2004	ND (5.0)	ND (10)	45.1	ND (3.0)	ND (3.0)	ND (3.0)	431	ND (5.0)	ND (5.0)	ND (0.2)	8.80	ND (5.0)	ND (10)	ND (3.0)	ND (15)	5.80	ND (10)
MW-11	12/17/2004	ND (5.0)	ND (10)	38.8	ND (3.1)	ND (3.1)	ND (3.1)	393	ND (5.0)	ND (2.1)	ND (0.2)	9.40	ND (5.0)	13.6	ND (3.1)	ND (15)	9.90	27.4
MW-11	3/8/2005	ND (5.0)	ND (10)	38.3	ND (3.1)	ND (3.1)	ND (3.1)	357	ND (5.0)	ND (2.1)	ND (0.2)	9.00	ND (5.0)	ND (10)	ND (3.1)	ND (15)	85.9	56.7
MW-12	9/20/2004	20.9	68.6	62.8	ND (3.0)	ND (3.0)	ND (3.0)	1490	ND (5.0)	ND (5.0)	ND (0.2)	41.2	ND (5.0)	ND (10)	ND (3.0)	ND (15)	24.6	19.2
MW-12	3/10/2005	ND (5.0)	53.4	38.9	ND (3.1)	ND (3.1)	ND (3.1)	945	ND (5.0)	ND (2.1)	ND (0.2)	36.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	218	37.5
MW-12 FD	3/10/2005	ND (5.0)	64.2	39.9	ND (3.1)	ND (3.1)	ND (3.1)	912	ND (5.0)	ND (2.1)	ND (0.2)	40.7	ND (5.0)	ND (10)	ND (3.1)	ND (15)	202	54.6
MW-20-70	9/24/2004	ND (5.0)	ND (10)	59.1	ND (3.0)	ND (3.0)	ND (3.0)	7550	10.8	ND (5.0)	ND (0.2)	20.6	ND (5.0)	18.1	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-20-70	12/16/2004	ND (5.0)	ND (10)	36.6	ND (3.1)	ND (3.1)	ND (3.1)	7230	ND (5.0)	ND (2.1)	ND (0.2)	18.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.40	25.6
MW-20-70	3/10/2005	ND (5.0)	ND (10)	51.0	ND (3.1)	ND (3.1)	ND (3.1)	8120	ND (5.0)	ND (2.1)	ND (0.2)	13.0	5.20	ND (10)	ND (3.1)	ND (15)	91.6	136
MW-20-130	9/24/2004	ND (5.0)	ND (10)	40.3	ND (3.0)	ND (3.0)	ND (3.0)	7000	15.0	ND (5.0)	ND (0.2)	47.2	ND (5.0)	23.0	ND (3.0)	ND (15)	ND (3.0)	43.7
MW-20-130	1/27/2005	ND (5.0)	ND (10)	26.8	ND (3.0)	ND (3.0)	ND (3.0)	8410	ND (5.0)	ND (2.1)	ND (0.2)	44.4	ND (5.0)	13.0	ND (3.0)	ND (15)	11.6	24.6
MW-20-130	3/9/2005	ND (5.0)	ND (10)	21.5	ND (3.1)	ND (3.1)	ND (3.1)	8170	ND (5.0)	ND (2.1)	ND (0.2)	33.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	172	84.5 J
MW-20-130 FD	3/9/2005	ND (5.0)	ND (10)	20.0	ND (3.1)	ND (3.1)	ND (3.1)	7050	ND (5.0)	ND (2.1)	ND (0.2)	29.0	5.30	ND (10)	ND (3.1)	ND (15)	162	173 J
MW-25	9/22/2004	ND (5.0)	ND (10)	40.7	ND (3.0)	ND (3.0)	ND (3.0)	1930	7.10	ND (5.0)	ND (0.2)	ND (5.0)	ND (5.0)	13.1	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-25	3/9/2005	ND (5.0)	ND (10)	39.5	ND (3.1)	ND (3.1)	ND (3.1)	1700	ND (5.0)	ND (2.1)	ND (0.2)	ND (5.0)	ND (5.0)	ND (10)	ND (3.1)	ND (15)	73.3	94.6
MW-34-55	9/22/2004	ND (5.0)	ND (10)	87.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	12.0	ND (5.0)	ND (0.2)	13.0	ND (5.0)	12.5	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-34-55	12/15/2004	ND (5.0)	ND (10)	71.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	6.60	12.2	ND (0.2)	13.7	ND (5.0)	ND (10)	40.4	ND (15)	6.50	25.1
MW-34-55	3/10/2005	ND (5.0)	ND (10)	66.9	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	12.4	9.10	ND (10)	ND (3.1)	ND (15)	227	87.7
MW-34-80	9/23/2004	ND (5.0)	ND (10)	54.1	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.1	ND (5.0)	ND (0.2)	14.9	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	23.2
MW-34-80 FD	9/23/2004	ND (5.0)	ND (10)	52.8	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.6	ND (5.0)	ND (0.2)	14.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	22.0
MW-34-80	12/13/2004	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	14.7	8.60	ND (10)	ND (3.1)	ND (15)	15.3	29.7
MW-34-80	3/8/2005	ND (5.0)	ND (10)	51.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	13.3	15.5	ND (10)	ND (3.1)	ND (15)	238	41.7
MW-37D	9/24/2004	ND (5.0)	ND (10)	65.0	ND (3.0)	ND (3.0)	ND (3.0)	1220	8.50	ND (5.0)	ND (0.2)	47.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	17.2
MW-37D FD	9/24/2004	ND (5.0)	ND (10)	65.9	ND (3.0)	ND (3.0)	ND (3.0)	1160	9.60	ND (5.0)	ND (0.2)	46.3	ND (5.0)	10.0	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-37D	12/14/2004	ND (5.0)	ND (10)	46.4	ND (3.1)	ND (3.1)	ND (3.1)	1490	ND (5.0)	ND (2.1)	ND (0.2)	43.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	31.4 J	33.0 J
MW-37D FD	12/14/2004	ND (5.0)	ND (10)	49.9	ND (3.1)	ND (3.1)	ND (3.1)	1440	ND (5.0)	ND (2.1)	ND (0.2)	44.6	8.30	ND (10)	ND (3.1)	ND (15)	20.5 J	91.8 J
MW-37D	3/11/2005	ND (5.0)	ND (10)	53.9	ND (3.1)	ND (3.1)	ND (3.1)	1540	ND (5.0)	ND (2.1)	ND (0.2)	34.1	9.20	ND (10)	ND (3.1)	ND (15)	326	38.7
MW-31-60	3/9/2005	ND (5.0)	ND (10)	35.7	ND (3.1)	ND (3.1)	ND (3.1)	2590	ND (5.0)	ND (2.1)	ND (0.2)	9.80	ND (5.0)	ND (10)	ND (3.1)	ND (15)	118	104

Table 5
2005 Quarterly Groundwater Monitoring Results - Title 22 Metals
PG&E Topock Groundwater Monitoring Program

NOTES:

- 1. Title 22 metals are the metals listed in California Code of Regulations, Title 22, Section 66261.24(a)(2)(A)
The maximum contaminant levels (MCLs) listed, in micrograms per liter (µg/L), are the California primary drinking water standards, or California secondary MCLs, where noted * . NE = not established
- 2. All results are dissolved metals concentrations in µg/L from field-filtered samples. FD = field duplicate sample
- 3. ND = not detected at listed reporting limit
- 4. Metals analyses by Methods SW 6010B, SW 6020A, and SW7470A
- 5. See Section 2.1 for sampling summary.
- 6. Analytes detected above MCL are in bold.
- 7. Samples for MW-31-060 were analyzed by the laboratory for Title 22 metals during March 2005 quarterly event.

Table 6
Manual Water Level Measurements and Elevations
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation	
						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-9	91	536.56	15-Mar-04	12:37 PM	81.28	0.20	455.26
			16-Mar-04	11:10 AM	81.82	0.20	454.72
			09-Jun-04	2:44 PM	79.85	0.16	456.68
			21-Sep-04	2:20 PM	80.48	0.20	456.05
			17-Dec-04	11:23 AM	81.68	0.20	454.86
			11-Jan-05	9:24 AM	81.76	0.20	454.78
			08-Mar-05	2:43 PM	82.04	0.20	454.50
			23-Mar-05	8:59 AM	82.35	0.21	454.19
			23-Mar-05	9:32 AM	83.47	0.21	453.07
MW-10	98	530.65	15-Mar-04	12:32 PM	75.40	0.20	455.19
			16-Mar-04	10:46 AM	75.40	0.20	455.19
			10-Jun-04	9:29 AM	74.15	0.20	456.44
			29-Jul-04	2:13 PM	73.95	0.20	456.64
			21-Sep-04	1:04 PM	75.72	0.20	454.87
			17-Dec-04	10:52 AM	75.92	0.20	454.68
			11-Jan-05	9:51 AM	76.00	0.39	454.63
			08-Mar-05	1:56 PM	76.35	0.39	454.28
MW-11	91	522.61	15-Mar-04	12:25 PM	67.32	0.10	455.21
			16-Mar-04	10:28 AM	67.32	0.10	455.21
			10-Jun-04	8:30 AM	66.08	0.12	456.45
			29-Jul-04	1:45 PM	66.00	0.10	456.53
			21-Sep-04	12:11 PM	66.80	0.10	455.73
			17-Dec-04	10:37 AM	67.99	0.10	454.54
			11-Jan-05	10:20 AM	68.12	0.10	454.42
			08-Mar-05	1:04 PM	68.50	0.10	454.04
MW-12	52	484.01	15-Mar-04	10:30 AM	29.00	0.28	454.97
			09-Jun-04	12:45 PM	27.65	0.24	456.31
			20-Sep-04	11:51 AM	28.67	0.20	455.29
			08-Mar-05	2:55 PM	30.09	0.20	453.87
MW-13	52	488.64	15-Mar-04	2:25 PM	32.37	0.14	456.21
			17-Mar-04	11:38 AM	32.39	0.14	456.19
			09-Jun-04	10:52 AM	31.95	0.11	456.63
			29-Jul-04	11:00 AM	32.35	0.10	456.23
			24-Sep-04	10:09 AM	32.33	0.10	456.25
			16-Dec-04	12:24 PM	32.00	0.10	456.58
			11-Mar-05	11:14 AM	35.38	0.10	453.21
MW-14	135	570.99	15-Mar-04	2:16 PM	115.52	0.10	455.41
			16-Mar-04	1:50 PM	115.52	0.10	455.41
			08-Jun-04	2:35 PM	114.15	0.15	456.78
			20-Sep-04	1:30 PM	115.26	0.10	455.67
			16-Dec-04	12:59 PM	116.50	0.10	454.43
			09-Mar-05	12:43 PM	117.05	0.10	453.88

Table 6
Manual Water Level Measurements and Elevations
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation	
						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-15	205	641.52	15-Mar-04	12:48 PM	184.81	0.10	456.64
			16-Mar-04	11:29 AM	184.81	0.10	456.64
			07-Jun-04	12:51 PM	184.68	0.08	456.77
			22-Sep-04	9:35 AM	185.50	0.10	455.95
			17-Dec-04	11:59 AM	186.45	0.10	455.01
			08-Mar-05	10:23 AM	187.18	0.10	454.28
MW-16	220	657.31	15-Mar-04	12:58 PM	201.65	0.10	455.60
			16-Mar-04	12:33 PM	201.65	0.10	455.60
			07-Jun-04	1:45 PM	201.43	0.06	455.81
			09-Jun-04	1:20 PM	200.65	0.06	456.59
			16-Dec-04	2:40 PM	201.57	0.09	455.68
MW-17	153	589.96	15-Mar-04	2:00 PM	133.87	0.10	456.02
			16-Mar-04	12:58 PM	133.87	0.10	456.02
			07-Jun-04	2:20 PM	132.71	0.09	457.18
			16-Dec-04	2:00 PM	134.12	0.10	455.78
MW-18	112	545.32	15-Mar-04	2:10 PM	89.76	0.10	455.49
			16-Mar-04	1:24 PM	89.76	0.10	455.49
			09-Jun-04	10:00 AM	88.49	0.08	456.75
			29-Jul-04	10:18 AM	88.54	0.10	456.70
			24-Sep-04	8:54 AM	89.33	0.10	455.92
			16-Dec-04	2:12 PM	90.42	0.10	454.83
			09-Mar-05	11:21 AM	91.03	0.10	454.22
MW-19	67	499.92	15-Mar-04	2:38 PM	44.56	0.15	455.30
			16-Mar-04	1:09 PM	44.33	0.15	455.53
			08-Jun-04	1:15 PM	43.25	0.23	456.62
			20-Sep-04	12:42 PM	45.19	0.11	454.66
			17-Dec-04	12:49 PM	46.00	0.11	453.86
			07-Mar-05	1:53 PM	47.07	0.22	452.80
MW-20-70	71	500.15	03-Mar-04	10:33 AM	45.43	0.20	454.65
			15-Mar-04	3:04 PM	56.99 +	0.24	443.13
			11-Jun-04	12:19 PM	43.98	0.20	456.10
			24-Sep-04	1:42 PM	45.71	0.20	454.37
			16-Dec-04	9:53 AM	47.07	0.20	453.02
			10-Mar-05	9:35 AM	48.44	0.14	451.64
MW-20-100	101	500.58	03-Mar-04	10:10 AM	45.85	0.30	454.61
			15-Mar-04	3:14 PM	74.22 +	0.36	426.31
			15-Mar-04	2:54 PM	74.75 +	0.36	425.79
			11-Jun-04	12:20 PM	44.53	0.30	455.93
			24-Sep-04	12:31 PM	46.32	0.30	454.15
			16-Dec-04	11:13 AM	47.78	0.30	452.70
			10-Mar-05	12:30 PM	49.08	0.30	451.40
MW-20-130	133	500.66	03-Mar-04	9:37 AM	46.20	1.20	454.83

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Manual Water Level Measurements and Elevations
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation
							Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-20-130	133	500.66	15-Mar-04	3:25 PM	69.88 +	0.96	430.94
			15-Mar-04	3:02 PM	69.88 +	0.96	430.94
			11-Jun-04	1:43 PM	44.76	0.70	455.97
			24-Sep-04	1:05 PM	46.90	1.06	454.04
			27-Jan-05	1:48 PM	49.20	0.67	451.53
			09-Mar-05	12:18 PM	72.90	0.67	427.79
MW-21	59	505.55	15-Mar-04	3:24 PM	50.70	0.83	454.87
			14-Apr-04	4:30 PM	48.60	0.70	456.96
			11-May-04	9:14 AM	49.57	0.60	455.98
			07-Jun-04	10:35 AM	49.26	0.63	456.30
			13-Jul-04	12:40 PM	49.30	1.00	456.28
			12-Aug-04	12:47 PM	51.68	0.78	453.88
			20-Sep-04	11:08 AM	50.11	0.87	455.46
			16-Dec-04	10:50 AM	50.80	0.87	454.77
			07-Mar-05	1:22 PM	50.98	0.87	454.59
MW-22	13	460.72	15-Mar-04	11:33 AM	5.65	2.10	455.16
			19-Mar-04	9:48 AM	5.53	2.10	455.28
			07-Jun-04	11:20 AM	4.70	1.50	456.08
			23-Sep-04	10:40 AM	6.12	1.91	454.67
			16-Dec-04	1:16 PM	7.00	1.91	453.78
			10-Mar-05	12:54 PM	7.53	1.91	453.25
MW-23	82	507.33	15-Mar-04	3:07 PM	52.54	1.13	454.91
			07-Jun-04	10:00 AM	51.14	1.03	456.30
			20-Sep-04	10:50 AM	52.22	1.17	455.24
			16-Dec-04	10:05 AM	53.23	1.17	454.23
			07-Mar-05	12:48 PM	53.00	1.17	454.46
MW-24A	127	567.16	15-Mar-04	11:50 AM	111.94	0.23	455.19
			17-Mar-04	11:00 AM	111.91	0.23	455.22
			08-Jun-04	10:08 AM	110.61	0.17	456.51
			20-Sep-04	2:35 PM	111.65	0.20	455.47
			17-Dec-04	8:34 AM	112.55	0.20	454.58
			11-Jan-05	12:00 PM	112.65	0.20	454.48
			07-Mar-05	11:44 AM	113.08	0.20	454.05
MW-24B	219	564.76	15-Mar-04	12:00 PM	109.71	0.85	455.25
			17-Mar-04	10:13 AM	108.47	0.85	456.49
			08-Jun-04	8:25 AM	108.40	0.75	456.48
			21-Sep-04	8:45 AM	109.30	0.83	455.64
			17-Dec-04	8:50 AM	110.35	0.83	454.60
			11-Jan-05	11:05 AM	110.37	0.83	454.58
			07-Mar-05	10:41 AM	110.83	0.83	454.12
MW-24BR	441	563.95	15-Mar-04	12:08 PM	108.55	0.89	455.93
			17-Mar-04	3:08 PM	108.55	0.89	455.93

Table 6
Manual Water Level Measurements and Elevations
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation	
						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-24BR	441	563.95	07-Jun-04	11:04 AM	107.09	0.82	457.22
			20-Sep-04	3:06 PM	107.88	0.92	456.66
			16-Dec-04	9:23 AM	109.10	0.92	455.46
			07-Mar-05	10:04 AM	109.54	0.92	455.03
MW-25	107	542.90	03-Mar-04	12:03 PM	88.00	0.10	454.84
			15-Mar-04	2:31 PM	87.62	0.11	455.22
			17-Mar-04	12:10 PM	87.65	0.11	455.19
			14-May-04	11:37 AM	86.55	0.10	456.28
			09-Jun-04	8:50 AM	86.41	0.09	456.42
			22-Sep-04	12:10 PM	87.50	0.10	455.33
			09-Mar-05	1:46 PM	89.52	0.10	453.32
MW-26	74	502.22	03-Mar-04	12:34 PM	47.43	0.20	454.71
			15-Mar-04	11:42 AM	47.10	0.23	455.05
			16-Mar-04	2:13 PM	47.05	0.23	455.10
			14-May-04	12:09 PM	46.15	0.20	455.99
			08-Jun-04	12:10 PM	45.75	0.18	456.39
			29-Jul-04	3:00 PM	45.95	0.20	456.19
			22-Sep-04	11:10 AM	47.03	0.20	455.11
			16-Dec-04	12:54 PM	48.30	0.20	453.85
MW-27-20	19	460.56	08-Mar-05	11:20 AM	48.98	0.20	453.17
			03-Mar-04	2:40 PM	6.22	0.10	454.32
			10-Mar-04	1:45 PM	5.26	0.20	455.29
			15-Mar-04	11:27 AM	5.02	0.00	455.51
			17-Mar-04	11:12 AM	5.02	0.00	455.51
			24-Mar-04	11:18 AM	4.04	0.10	456.50
			31-Mar-04	11:45 AM	4.76	0.00	455.77
			07-Apr-04	11:15 AM	4.19	0.00	456.34
			13-Apr-04	3:20 PM	4.44	0.10	456.10
			21-Apr-04	12:15 PM	4.35	0.00	456.18
			28-Apr-04	10:33 AM	4.05	0.00	456.48
			05-May-04	11:29 AM	4.05	0.00	456.48
			12-May-04	2:15 PM	4.26	0.00	456.27
			19-May-04	12:20 PM	4.35	0.00	456.18
			26-May-04	11:05 AM	4.39	0.00	456.14
			02-Jun-04	1:37 PM	4.20	0.00	456.33
			08-Jun-04	2:32 PM	4.13	0.00	456.40
			17-Jun-04	9:33 AM	4.13	0.05	456.41
			23-Jun-04	11:58 AM	4.27	0.05	456.27
			30-Jun-04	11:37 AM	3.76	0.03	456.77
			07-Jul-04	11:16 AM	4.45	0.00	456.08
			13-Jul-04	11:30 AM	4.58	0.00	455.95
			21-Jul-04	8:25 AM	4.00	0.10	456.54
			27-Jul-04	9:27 AM	4.26	0.00	456.27

Table 6
Manual Water Level Measurements and Elevations
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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-27-20	19	460.56	04-Aug-04	12:19 PM	5.07	0.05	455.47
			11-Aug-04	10:45 AM	5.28	0.04	455.26
			19-Aug-04	11:30 AM	5.63	0.03	454.91
			21-Sep-04	12:42 PM	6.08	0.01	454.46
			19-Oct-04	2:36 PM	7.03	0.01	453.51
			15-Nov-04	2:49 PM	7.07	0.01	453.47
			02-Dec-04	1:15 PM	6.58	0.01	453.96
			15-Dec-04	1:57 PM	7.16	0.01	453.38
			10-Jan-05	3:01 PM	7.93	0.03	452.62
			09-Feb-05	8:40 AM	7.58	0.03	452.97
			09-Feb-05	9:05 AM	7.63	0.03	452.92
			08-Mar-05	10:50 AM	8.68	0.03	451.87
MW-27-60	59	461.38	01-Mar-05	11:57 AM	8.86	0.95	452.77
			08-Mar-05	9:10 AM	9.73	0.95	451.89
			23-Mar-05	10:00 AM	7.45	0.95	454.16
			23-Mar-05	10:31 AM	7.50	0.95	454.11
			29-Mar-05	12:52 PM	7.35	0.95	454.26
			29-Mar-05	1:26 PM	7.35	0.95	454.26
MW-27-85	80	460.99	01-Mar-05	12:39 PM	8.60	1.31	452.92
			01-Mar-05	1:20 PM	8.62	1.31	452.90
			08-Mar-05	9:54 AM	9.42	1.31	452.09
			23-Mar-05	10:32 AM	7.24	1.31	454.27
			23-Mar-05	11:07 AM	7.23	1.31	454.28
			29-Mar-05	12:12 PM	7.04	1.31	454.46
			29-Mar-05	12:51 PM	7.04	1.31	454.46
MW-28-25	25	466.85	04-Mar-04	10:20 AM	11.92	0.10	454.90
			10-Mar-04	3:00 PM	11.61	0.50	455.25
			15-Mar-04	11:05 AM	11.45	0.10	455.37
			17-Mar-04	10:04 AM	11.35	0.10	455.47
			24-Mar-04	10:12 AM	10.04	0.10	456.78
			31-Mar-04	10:00 AM	10.92	0.10	455.90
			07-Apr-04	10:05 AM	10.37	0.10	456.45
			13-Apr-04	12:45 PM	10.60	0.10	456.22
			21-Apr-04	10:48 AM	10.49	0.10	456.33
			28-Apr-04	8:29 AM	10.03	0.10	456.79
			05-May-04	1:00 PM	10.20	0.10	456.62
			11-May-04	12:30 PM	10.30	0.10	456.52
			20-May-04	8:25 AM	10.24	0.10	456.58
			26-May-04	9:55 AM	10.50	0.10	456.32
			02-Jun-04	2:28 PM	10.52	0.10	456.30
			07-Jun-04	12:56 PM	10.11	0.10	456.71
			16-Jun-04	8:35 AM	10.15	0.10	456.67
			23-Jun-04	12:55 PM	10.83	0.07	455.98

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						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-28-25	25	466.85	30-Jun-04	12:37 PM	10.05	0.07	456.76
			07-Jul-04	12:10 PM	10.84	0.10	455.98
			13-Jul-04	10:20 AM	10.68	0.10	456.14
			21-Jul-04	9:50 AM	10.45	0.10	456.37
			27-Jul-04	10:28 AM	10.43	0.00	456.38
			04-Aug-04	9:38 AM	11.04	0.11	455.78
			11-Aug-04	9:45 AM	11.37	0.07	455.45
			19-Aug-04	8:20 AM	11.64	0.06	455.18
			20-Sep-04	12:17 PM	12.32	0.09	454.50
			19-Oct-04	10:47 AM	13.09	0.09	453.73
			15-Nov-04	10:42 AM	13.20	0.09	453.62
			02-Dec-04	9:38 AM	12.48	0.09	454.34
			14-Dec-04	1:42 PM	13.42	0.09	453.40
			11-Jan-05	2:45 PM	14.11	0.09	452.72
			10-Mar-05	9:09 AM	14.91	0.09	451.92
MW-28-90	98	467.66	29-Apr-04	1:49 PM	11.65	0.40	456.03
			10-Jun-04	9:56 AM	10.81	0.55	456.98
			26-Aug-04	9:02 AM	12.87	0.40	454.81
			09-Sep-04	9:17 AM	12.30	0.40	455.38
			20-Sep-04	1:58 PM	13.65	0.40	454.03
			06-Oct-04	9:07 AM	13.41	0.40	454.27
			19-Oct-04	11:51 AM	14.06	0.40	453.62
			02-Nov-04	9:07 AM	14.65	0.40	453.03
			15-Nov-04	11:45 AM	14.25	0.40	453.43
			02-Dec-04	10:00 AM	12.95	0.40	454.74
			13-Dec-04	11:30 AM	14.40	0.40	453.28
			29-Dec-04	9:38 AM	14.43	0.40	453.25
			11-Jan-05	2:05 PM	14.94	0.55	452.84
			27-Jan-05	12:17 PM	15.52	0.55	452.26
			08-Feb-05	9:56 AM	14.74	0.55	453.04
			08-Feb-05	10:25 AM	14.75	0.55	453.03
			22-Feb-05	11:39 AM	15.48	0.55	452.31
			22-Feb-05	10:12 AM	15.48	0.55	452.31
		467.51	07-Mar-05	2:32 PM	15.87	0.55	451.77
			22-Mar-05	2:25 PM	13.80	0.56	453.84
			22-Mar-05	1:46 PM	13.78	0.56	453.86
MW-29	42	485.21	15-Mar-04	10:55 AM	29.87	0.53	455.35
			18-Mar-04	11:14 AM	29.73	0.53	455.49
			13-Apr-04	11:50 AM	29.07	0.20	456.12
			11-May-04	2:04 PM	28.88	0.20	456.31
			09-Jun-04	9:27 AM	28.57	0.10	456.61
			13-Jul-04	8:06 AM	29.11	0.20	456.08
			04-Aug-04	8:55 AM	29.30	0.19	455.89

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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells						
MW-29	42	485.21	11-Aug-04 8:15 AM	29.60	0.24	455.59
			20-Sep-04 11:01 AM	30.27	0.25	454.93
			19-Oct-04 10:00 AM	30.96	0.25	454.24
			15-Nov-04 9:43 AM	31.33	0.25	453.87
			02-Dec-04 11:16 AM	31.27	0.25	453.93
			14-Dec-04 12:10 PM	31.47	0.25	453.73
			11-Jan-05 9:42 AM	31.79	0.24	453.41
			07-Feb-05 11:13 AM	32.04	0.24	453.16
			07-Feb-05 10:34 AM	31.90	0.24	453.30
MW-30-30	34	468.12	09-Mar-05 10:27 AM	32.38	0.24	452.82
			04-Mar-04 2:24 PM	13.80	3.90	454.81
			11-Mar-04 9:35 AM	13.20	4.00	455.44
			15-Mar-04 11:10 AM	13.30	3.20	455.22
			18-Mar-04 1:16 PM	13.32	3.20	455.20
			24-Mar-04 1:55 PM	12.83	3.20	455.70
			31-Mar-04 12:55 PM	12.91	3.10	455.60
			07-Apr-04 12:10 PM	12.60	2.80	455.87
			14-Apr-04 1:20 PM	12.48	4.00	456.18
			21-Apr-04 1:15 PM	12.46	3.00	456.04
			28-Apr-04 11:29 AM	12.26	3.10	456.26
			05-May-04 2:43 PM	12.16	3.10	456.36
			12-May-04 10:54 AM	12.21	2.70	456.25
			20-May-04 9:09 AM	12.12	2.80	456.36
			26-May-04 12:19 PM	12.41	3.70	456.20
			03-Jun-04 9:11 AM	11.95	2.30	456.45
			09-Jun-04 11:27 AM	12.04	2.40	456.38
			16-Jun-04 9:45 AM	12.00	2.80	456.48
			24-Jun-04 10:15 AM	12.20	2.90	456.29
			01-Jul-04 10:03 AM	11.92	2.50	456.51
			08-Jul-04 9:35 AM	12.27	2.70	456.19
			14-Jul-04 11:47 AM	12.58	3.60	456.01
			22-Jul-04 9:32 AM	12.31	3.00	456.20
			28-Jul-04 9:23 AM	12.24	2.72	456.22
			04-Aug-04 12:59 PM	12.82	2.73	455.64
			12-Aug-04 8:45 AM	12.92	3.52	455.65
			19-Aug-04 1:27 PM	13.27	2.82	455.19
			23-Sep-04 11:20 AM	13.72	3.13	454.78
			20-Oct-04 9:43 AM	14.12	3.13	454.37
			16-Nov-04 10:14 AM	14.41	3.13	454.07
			15-Dec-04 11:25 AM	14.76	3.13	453.72
			11-Jan-05 12:19 PM	15.08	3.14	453.40
			09-Feb-05 12:22 PM	15.50	3.14	452.98
			09-Feb-05 11:56 AM	15.35	3.14	453.13

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							Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-30-30	34	468.12	10-Mar-05	9:56 AM	15.78	3.14	452.68
MW-30-50	52	468.81	05-Mar-04	10:49 AM	14.10	0.60	454.74
			11-Mar-04	1:51 PM	13.35	0.60	455.49
			15-Mar-04	11:12 AM	13.70	0.60	455.14
			18-Mar-04	2:12 PM	13.85	0.60	454.99
			25-Mar-04	11:50 AM	13.57	0.70	455.30
			01-Apr-04	11:30 AM	13.22	0.60	455.62
			08-Apr-04	10:00 AM	12.89	0.60	455.95
			15-Apr-04	2:54 PM	13.05	0.60	455.79
			22-Apr-04	1:45 PM	13.13	0.60	455.71
			29-Apr-04	11:38 AM	12.55	0.60	456.29
			06-May-04	1:46 PM	12.46	0.60	456.38
			14-May-04	7:58 AM	12.38	0.60	456.46
			20-May-04	2:20 PM	13.35	0.60	455.49
			27-May-04	1:41 PM	13.00	0.60	455.84
			03-Jun-04	12:00 PM	12.68	0.50	456.14
			09-Jun-04	2:06 PM	13.00	0.60	455.84
			16-Jun-04	10:25 AM	12.63	0.70	456.24
			25-Jun-04	9:20 AM	12.55	0.56	456.28
			01-Jul-04	10:30 AM	12.28	0.60	456.56
			08-Jul-04	10:15 AM	12.75	0.60	456.09
			15-Jul-04	10:05 AM	12.91	0.90	456.02
			22-Jul-04	9:55 AM	12.78	0.70	456.09
			28-Jul-04	9:54 AM	12.62	0.55	456.21
			05-Aug-04	11:55 AM	13.57	0.65	455.29
			12-Aug-04	11:48 AM	13.76	0.60	455.08
			20-Aug-04	11:00 AM	13.80	0.56	455.03
			23-Sep-04	11:57 AM	14.52	0.55	454.31
			21-Oct-04	9:50 AM	14.76	0.55	454.07
			17-Nov-04	11:19 AM	14.82	0.55	454.02
			15-Dec-04	11:53 AM	15.35	0.55	453.48
			11-Jan-05	12:50 PM	16.10	0.58	452.74
			09-Feb-05	11:12 AM	16.15	0.58	452.69
			09-Feb-05	11:55 AM	16.16	0.58	452.68
			10-Mar-05	11:33 AM	17.09	0.58	451.75
MW-31-60	64	496.81	03-Mar-04	11:32 AM	42.05	0.20	454.71
			15-Mar-04	11:30 AM	41.44	0.20	455.31
			16-Mar-04	1:48 PM	41.34	0.20	455.41
			03-Apr-04	3:16 PM	40.78	0.20	455.97
			11-Apr-04	10:05 AM	40.80	0.20	455.95
			14-May-04	9:28 AM	40.53	0.20	456.22
			08-Jun-04	12:50 PM	40.27	0.19	456.48
			22-Sep-04	1:47 PM	42.05	0.20	454.71

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							Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-31-60	64	496.81	16-Nov-04	2:08 PM	42.87	0.20	453.89
			16-Dec-04	12:00 AM	43.28	0.20	453.48
			09-Mar-05	2:49 PM	44.65	0.16	452.11
MW-31-135	134	498.11	16-Apr-04	11:16 AM	42.03	0.70	456.14
			10-Jun-04	2:38 PM	42.20	0.70	455.97
			23-Sep-04	2:03 PM	43.88	0.73	454.31
			14-Dec-04	10:59 AM	44.92	0.73	453.31
			10-Mar-05	12:19 PM	46.40	0.69	451.77
MW-32-20	22	461.51	04-Mar-04	11:45 AM	7.10	0.80	454.45
			15-Mar-04	11:30 AM	6.50	0.60	455.03
			18-Mar-04	1:15 PM	6.39	0.60	455.14
			13-Apr-04	1:50 PM	5.69	0.40	455.82
			12-May-04	12:15 PM	5.60	0.40	455.91
			07-Jun-04	2:40 PM	7.34	0.40	454.17
			13-Jul-04	11:58 AM	5.88	0.40	455.63
			11-Aug-04	11:45 AM	6.55	2.15	455.15
			20-Sep-04	3:03 PM	7.18	0.45	454.33
			19-Oct-04	12:43 PM	7.82	0.45	453.69
			15-Nov-04	1:00 PM	8.08	0.45	453.43
			02-Dec-04	1:45 PM	7.89	0.45	453.62
			14-Dec-04	2:30 PM	8.25	0.45	453.26
			10-Jan-05	1:42 PM	8.58	1.12	453.00
			07-Feb-05	2:43 PM	8.56	1.12	453.03
			09-Mar-05	2:16 PM	9.29	1.12	452.28
MW-32-35	39	461.63	04-Mar-04	12:14 PM	6.95	0.50	454.69
			15-Mar-04	11:31 AM	6.36	0.43	455.27
			18-Mar-04	2:10 PM	6.40	0.43	455.23
			13-Apr-04	2:20 PM	5.68	0.40	455.94
			12-May-04	12:58 PM	5.46	0.40	456.16
			08-Jun-04	9:00 AM	4.77	0.40	456.85
			14-Jul-04	8:47 AM	5.64	0.40	455.98
			11-Aug-04	12:15 PM	6.50	0.47	455.14
			21-Sep-04	9:20 AM	7.04	0.39	454.58
			19-Oct-04	1:19 PM	8.00	0.39	453.62
			15-Nov-04	1:56 PM	8.18	0.39	453.44
			02-Dec-04	2:13 PM	7.58	0.39	454.04
			15-Dec-04	9:05 AM	8.18	0.39	453.44
			10-Jan-05	2:11 PM	8.85	0.41	452.78
			07-Feb-05	1:55 PM	8.72	0.41	452.91
			07-Feb-05	2:45 PM	9.02	0.41	452.61
09-Mar-05	2:50 PM	10.06	0.41	451.57			
MW-33-40	42	487.41	15-Mar-04	11:00 AM	32.03	0.20	455.36

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						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-33-40	42	487.41	18-Mar-04	9:30 AM	31.75	0.20	455.64
			14-Apr-04	10:20 AM	31.14	1.00	456.31
			12-May-04	9:45 AM	31.05	0.30	456.34
			09-Jun-04	12:46 PM	31.00	0.20	456.39
			13-Jul-04	9:45 AM	31.15	0.20	456.24
			11-Aug-04	9:05 AM	31.70	0.45	455.71
			19-Aug-04	10:55 AM	32.16	0.47	455.25
			21-Sep-04	1:03 PM	32.78	0.42	454.62
			20-Oct-04	9:01 AM	33.07	0.42	454.33
			16-Nov-04	9:29 AM	33.10	0.42	454.31
			15-Dec-04	1:20 PM	33.73	0.42	453.68
			11-Jan-05	10:24 AM	34.27	0.60	453.15
			07-Feb-05	12:10 PM	35.20	0.60	452.22
			07-Feb-05	11:17 AM	34.15	0.60	453.27
			10-Mar-05	11:20 AM	35.53	0.60	451.88
MW-33-90	91	487.57	15-Mar-04	11:02 AM	32.22	0.40	455.30
			18-Mar-04	9:33 AM	31.88	0.40	455.64
			14-Apr-04	11:06 AM	31.27	1.60	456.75
			06-May-04	7:51 AM	30.96	0.50	456.60
			13-May-04	1:45 PM	31.77	0.50	455.79
			20-May-04	10:14 AM	31.32	0.50	456.24
			26-May-04	1:12 PM	31.66	0.50	455.90
			03-Jun-04	10:10 AM	31.07	0.50	456.49
			16-Jun-04	1:00 PM	31.52	0.50	456.04
			25-Jun-04	7:58 AM	30.93	0.48	456.62
			01-Jul-04	8:15 AM	30.60	0.50	456.96
			08-Jul-04	9:10 AM	31.19	0.50	456.37
			14-Jul-04	12:20 PM	31.81	0.70	455.83
			22-Jul-04	8:00 AM	31.10	0.60	456.50
			28-Jul-04	8:11 AM	31.08	0.46	456.46
			05-Aug-04	9:00 AM	31.77	0.56	455.81
			12-Aug-04	9:20 AM	31.98	0.53	455.59
			20-Aug-04	8:05 AM	32.10	0.51	455.46
			26-Aug-04	12:02 PM	32.81	0.53	454.76
			08-Sep-04	2:09 PM	33.02	0.53	454.55
			21-Sep-04	1:52 PM	33.17	0.53	454.40
			06-Oct-04	12:15 PM	33.20	0.53	454.37
			20-Oct-04	12:50 PM	33.50	0.53	454.07
			02-Nov-04	12:08 PM	34.18	0.53	453.39
			16-Nov-04	1:44 PM	33.50	0.53	454.09
			02-Dec-04	11:25 AM	33.14	0.53	454.43
			14-Dec-04	10:00 AM	33.86	0.53	453.73
			29-Dec-04	12:30 PM	34.18	0.55	453.41

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						Elevation Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-33-90	91	487.57	11-Jan-05	10:58 AM	34.45	0.55	453.13
			27-Jan-05	8:47 AM	34.79	0.55	452.79
			07-Feb-05	12:10 PM	34.43	0.55	453.17
			07-Feb-05	1:05 PM	34.48	0.55	453.12
			22-Feb-05	1:09 PM	34.98	0.55	452.62
			22-Feb-05	1:11 PM	34.98	0.55	452.62
			09-Mar-05	12:05 PM	35.82	0.55	451.76
			22-Mar-05	12:25 PM	33.90	0.53	453.67
			22-Mar-05	1:26 PM	33.92	0.53	453.65
MW-34-55	56	460.88	04-Mar-04	1:01 PM	6.50	0.80	454.54
			11-Mar-04	10:30 AM	4.85	0.80	456.19
			15-Mar-04	11:17 AM	5.85	0.70	455.15
			17-Mar-04	12:50 PM	6.31	0.70	454.69
			24-Mar-04	12:25 PM	4.68	0.80	456.36
			31-Mar-04	1:35 PM	5.60	0.60	455.37
			07-Apr-04	1:15 PM	5.81	0.60	455.16
			15-Apr-04	12:00 PM	4.92	0.60	456.05
			22-Apr-04	9:25 AM	4.55	0.70	456.46
			29-Apr-04	7:35 AM	3.83	0.70	457.18
			06-May-04	10:30 AM	4.32	0.70	456.69
			13-May-04	9:17 AM	4.88	0.60	456.09
			19-May-04	1:25 PM	5.36	0.50	455.57
			27-May-04	9:13 AM	4.41	0.60	456.56
			02-Jun-04	8:45 AM	3.85	0.60	457.12
			08-Jun-04	10:39 AM	4.13	0.60	456.84
			17-Jun-04	10:29 AM	4.38	0.56	456.58
			23-Jun-04	8:28 AM	4.29	0.56	456.67
			30-Jun-04	8:28 AM	3.68	0.57	457.28
			07-Jul-04	8:17 AM	4.27	0.50	456.66
			14-Jul-04	10:40 AM	5.19	0.50	455.74
			21-Jul-04	10:36 AM	4.97	0.50	455.96
			27-Jul-04	11:18 AM	4.75	0.50	456.18
			04-Aug-04	11:00 AM	5.56	0.54	455.39
			11-Aug-04	1:20 PM	6.24	0.60	454.73
			19-Aug-04	12:05 PM	6.26	0.49	454.67
			22-Sep-04	1:35 PM	6.62	0.53	454.32
			20-Oct-04	11:32 AM	7.07	0.53	453.87
			16-Nov-04	11:35 AM	6.75	0.53	454.30
			15-Dec-04	10:00 AM	7.32	0.53	453.62
			12-Jan-05	9:13 AM	8.38	0.58	452.58
			09-Feb-05	10:07 AM	8.00	0.58	452.97
			09-Feb-05	9:11 AM	7.98	0.58	452.99
			10-Mar-05	11:52 AM	9.23	0.58	451.73

Table 6
Manual Water Level Measurements and Elevations
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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells						
MW-34-80	84	460.99	05-Mar-04 9:05 AM	6.10	1.70	455.62
			11-Mar-04 10:32 AM	5.00	1.70	456.73
			15-Mar-04 11:19 AM	5.98	0.90	455.30
			17-Mar-04 1:45 PM	6.52	0.90	454.76
			25-Mar-04 8:50 AM	5.16	0.90	456.13
			01-Apr-04 9:20 AM	5.16	0.80	456.07
			08-Apr-04 7:30 AM	5.40	0.80	455.83
			16-Apr-04 9:02 AM	4.42	0.80	456.81
			22-Apr-04 11:40 AM	5.16	0.90	456.13
			29-Apr-04 9:20 AM	4.29	0.90	457.00
			06-May-04 11:55 AM	4.56	0.90	456.73
			13-May-04 11:03 AM	5.47	0.80	455.76
			20-May-04 12:39 PM	5.52	0.90	455.77
			27-May-04 10:53 AM	4.99	0.90	456.30
			02-Jun-04 11:37 AM	4.73	0.90	456.56
			08-Jun-04 12:40 PM	4.85	0.80	456.38
			17-Jun-04 8:10 AM	4.28	0.80	456.95
			23-Jun-04 10:00 AM	4.80	0.84	456.45
			30-Jun-04 9:57 AM	4.15	0.87	457.12
			07-Jul-04 9:40 AM	4.75	0.80	456.48
			15-Jul-04 8:45 AM	5.86	1.20	455.59
			21-Jul-04 11:41 AM	5.37	1.10	456.03
			27-Jul-04 12:25 PM	5.19	0.80	456.04
			05-Aug-04 10:29 AM	5.92	0.96	455.40
			12-Aug-04 10:33 AM	5.86	0.90	455.42
			20-Aug-04 9:28 AM	5.83	0.83	455.42
			26-Aug-04 10:32 AM	6.60	0.89	454.68
			08-Sep-04 11:55 AM	6.11	0.89	455.17
			23-Sep-04 8:40 AM	6.31	0.89	454.97
			06-Oct-04 10:45 AM	6.90	0.89	454.38
			20-Oct-04 2:12 PM	7.35	0.89	453.92
			02-Nov-04 10:44 AM	8.04	0.89	453.23
			17-Nov-04 9:20 AM	6.68	0.89	454.60
			02-Dec-04 8:25 AM	6.68	0.89	454.60
			13-Dec-04 1:00 PM	8.18	0.89	453.10
			29-Dec-04 10:45 AM	8.19	0.89	453.09
			12-Jan-05 10:32 AM	8.68	0.87	452.59
			27-Jan-05 11:00 AM	8.93	0.87	452.34
			08-Feb-05 11:45 AM	8.33	0.87	452.93
			08-Feb-05 2:08 PM	8.40	0.87	452.86
			22-Feb-05 3:38 PM	8.92	0.87	452.36
			22-Feb-05 2:33 PM	8.90	0.87	452.38
			01-Mar-05 10:42 AM	8.71	0.87	452.57

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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation
							Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-34-80	84	460.99	01-Mar-05	9:30 AM	8.62	0.87	452.66
			08-Mar-05	1:22 PM	9.85	0.87	451.42
			22-Mar-05	12:08 PM	7.55	0.87	453.72
			22-Mar-05	11:00 AM	7.45	0.87	453.82
			29-Mar-05	10:18 AM	7.14	0.87	454.13
			29-Mar-05	9:15 AM	7.08	0.87	454.19
MW-34-100	117	460.90	01-Mar-05	10:52 AM	8.70	1.17	452.85
			01-Mar-05	11:39 AM	8.72	1.17	452.83
			08-Mar-05	12:15 PM	9.56	1.17	451.97
			23-Mar-05	11:58 AM	7.37	1.17	454.15
			23-Mar-05	11:16 AM	7.31	1.17	454.21
			29-Mar-05	11:51 AM	7.14	1.17	454.41
			29-Mar-05	10:37 AM	7.05	1.17	454.50
MW-35-60	60	484.19	15-Apr-04	9:25 AM	27.50	0.30	456.64
			10-Jun-04	2:50 PM	27.82	0.35	456.34
			22-Sep-04	2:45 PM	29.62	0.35	454.53
			13-Dec-04	2:01 PM	30.68	0.35	453.48
			15-Mar-05	12:04 PM	32.00	0.35	452.16
MW-35-135	159	483.57	15-Apr-04	10:23 AM	27.58	0.70	456.14
			10-Jun-04	11:17 AM	27.61	0.72	456.13
			23-Sep-04	10:36 AM	29.05	0.71	454.68
			13-Dec-04	12:03 PM	30.19	0.71	453.60
			15-Mar-05	12:20 PM	31.38	0.71	452.36
MW-36-20	23	469.32	18-May-04	11:55 AM	13.22	0.70	456.11
			15-Jun-04	1:55 PM	13.23	0.63	456.10
			21-Sep-04	11:48 AM	14.01	0.66	455.32
			19-Oct-04	2:28 PM	16.90	0.66	452.43
			17-Nov-04	8:54 AM	15.15	0.66	454.18
			14-Dec-04	12:44 PM	15.97	0.66	453.36
			11-Jan-05	2:15 PM	16.66	1.11	452.69
			07-Feb-05	11:44 AM	16.49	1.11	452.86
			08-Mar-05	9:11 AM	18.01	1.11	451.33
MW-36-40	43	469.64	18-May-04	12:35 PM	13.85	0.50	455.79
			16-Jun-04	10:26 AM	13.43	0.49	456.21
			21-Sep-04	1:32 PM	15.45	0.49	454.19
			19-Oct-04	11:47 AM	16.15	0.49	453.49
			17-Nov-04	9:40 AM	15.43	0.49	454.22
			15-Dec-04	9:20 AM	16.11	0.49	453.54
			12-Jan-05	10:36 AM	17.15	0.74	452.54
			07-Feb-05	1:22 PM	16.90	0.74	452.80
			08-Mar-05	11:03 AM	18.01	0.74	451.68
MW-36-50	53	469.65	19-May-04	2:25 PM	14.21	0.56	455.46

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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation	
						Adjusted for Salinity (feet AMSL)	
Monitoring Wells							
MW-36-50	53	469.65	17-Jun-04	10:06 AM	13.17	0.50	456.49
			21-Sep-04	10:56 AM	15.50	0.50	454.16
			18-Oct-04	9:54 AM	15.98	0.50	453.68
			17-Nov-04	10:40 AM	15.48	0.50	454.18
			15-Dec-04	8:41 AM	16.10	0.50	453.56
			12-Jan-05	11:15 AM	17.15	0.68	452.56
			07-Feb-05	2:05 PM	16.92	0.68	452.79
			08-Mar-05	10:02 AM	18.00	0.68	451.71
MW-36-70	73	469.31	19-May-04	11:22 AM	13.20	0.83	456.26
			17-Jun-04	11:40 AM	12.99	0.70	456.42
			22-Sep-04	10:02 AM	14.75	0.70	454.65
			20-Oct-04	9:04 AM	15.28	0.70	454.12
			17-Nov-04	11:49 AM	15.21	0.70	454.20
			14-Dec-04	1:58 PM	16.04	0.70	453.37
			11-Jan-05	2:15 PM	16.54	0.63	452.85
			07-Feb-05	10:22 AM	16.38	0.63	453.01
			07-Feb-05	11:34 AM	16.48	0.63	452.91
			08-Mar-05	12:02 PM	17.70	0.63	451.69
MW-36-90	93	469.68	18-May-04	1:28 PM	13.98	0.90	455.93
			15-Jun-04	12:24 PM	13.30	0.92	456.62
			23-Sep-04	1:30 PM	15.63	0.92	454.29
			19-Oct-04	12:46 PM	16.53	0.92	453.38
			17-Nov-04	12:33 PM	16.04	0.92	453.90
			15-Dec-04	9:52 AM	16.24	0.92	453.69
			12-Jan-05	9:04 AM	17.49	1.27	452.64
			07-Feb-05	12:25 PM	17.23	1.27	452.89
			09-Mar-05	9:15 AM	18.65	1.27	451.47
MW-36-100	110	469.69	21-May-04	8:43 AM	13.27	0.90	456.72
			15-Jun-04	10:25 AM	13.35	0.97	456.69
			26-Aug-04	1:23 PM	15.51	0.93	454.50
			09-Sep-04	11:26 AM	14.68	0.93	455.33
			23-Sep-04	1:30 PM	16.88	0.93	453.12
			06-Oct-04	1:30 PM	16.21	0.93	453.79
			21-Oct-04	11:07 AM	16.17	0.93	453.83
			02-Nov-04	1:30 PM	17.05	0.93	452.95
			17-Nov-04	12:55 PM	16.13	0.93	453.88
			02-Dec-04	12:06 PM	15.78	0.93	454.23
			14-Dec-04	10:55 AM	16.66	0.93	453.35
			29-Dec-04	1:30 PM	17.10	0.93	452.91
			12-Jan-05	12:48 PM	17.52	0.89	452.46
			27-Jan-05	12:50 PM	17.85	0.89	452.13
			09-Feb-05	10:35 AM	17.35	0.89	452.64
			09-Feb-05	11:07 AM	17.39	0.89	452.60

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Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-36-100	110	469.69	22-Feb-05	12:26 PM	17.95	0.89	452.04
			22-Feb-05	11:54 AM	17.95	0.89	452.04
			09-Mar-05	1:28 PM	18.88	0.89	451.10
			22-Mar-05	2:41 PM	16.69	0.97	453.35
			22-Mar-05	3:27 PM	16.65	0.97	453.39
MW-37D	227	486.19	19-May-04	10:20 AM	30.18	0.70	456.09
			11-Jun-04	10:32 AM	30.37	0.80	456.04
			24-Sep-04	9:42 AM	31.41	0.75	454.93
			14-Dec-04	12:07 PM	32.39	0.75	453.96
			11-Mar-05	10:48 AM	33.28	0.75	453.07
MW-37S	87	485.97	19-May-04	9:15 AM	30.23	0.20	455.58
			10-Jun-04	1:45 PM	30.00	0.20	455.81
			23-Sep-04	8:54 AM	31.30	0.20	454.51
			13-Dec-04	1:00 PM	32.42	0.20	453.40
			11-Mar-05	10:15 AM	34.29	0.20	451.53
MW-38D	191	525.31	05-May-04	9:10 AM	67.55	1.40	458.40
			10-Jun-04	1:25 PM	69.80	1.33	456.08
			23-Sep-04	12:44 PM	70.53	1.36	455.37
			14-Dec-04	9:18 AM	71.68	1.36	454.24
			11-Mar-05	9:18 AM	72.34	1.36	453.58
MW-38S	98	525.51	14-May-04	10:41 AM	90.20	0.20	435.29
			11-Jun-04	8:57 AM	69.62	0.23	455.81
			17-Jun-04	12:10 PM	69.55	0.24	455.89
			24-Sep-04	8:50 AM	70.38	0.22	455.05
			14-Dec-04	10:11 AM	71.44	0.22	454.00
			11-Mar-05	8:40 AM	72.10	0.22	453.34
MW-39-40	42	468.02	20-May-04	8:45 AM	11.75	0.36	456.24
			18-Jun-04	9:13 AM	11.73	0.30	456.25
			20-Oct-04	2:20 PM	14.45	0.30	453.53
			17-Nov-04	1:57 PM	14.11	0.30	453.87
			15-Dec-04	1:06 PM	14.80	0.30	453.18
			12-Jan-05	1:48 PM	15.51	0.50	452.51
			08-Feb-05	12:38 PM	15.36	0.50	452.67
			09-Mar-05	11:18 AM	16.77	0.50	451.25
MW-39-50	50	467.93	20-May-04	11:37 AM	12.20	0.45	455.71
			18-Jun-04	10:04 AM	11.75	0.50	456.18
			20-Oct-04	12:56 PM	14.46	0.50	453.47
			18-Nov-04	8:59 AM	13.70	0.50	454.23
			15-Dec-04	12:17 PM	14.72	0.50	453.21
			14-Jan-05	9:51 AM	15.79	0.80	452.22
			08-Feb-05	10:49 AM	15.27	0.80	452.74
			09-Mar-05	10:59 AM	16.75	0.80	451.26

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Monitoring Wells						
MW-39-60	66	468.00	20-May-04 12:15 PM	12.23	0.42	455.74
			18-Jun-04 10:45 AM	11.93	0.40	456.03
			20-Oct-04 10:15 AM	14.40	0.40	453.56
			18-Nov-04 10:09 AM	14.25	0.40	453.72
			15-Dec-04 10:41 AM	14.41	0.40	453.56
			14-Jan-05 1:20 PM	15.96	0.67	452.11
			08-Feb-05 8:48 AM	15.42	0.67	452.66
			09-Mar-05 12:35 PM	16.92	0.67	451.15
MW-39-70	72	468.02	20-May-04 9:43 AM	11.95	0.55	456.09
			18-Jun-04 8:05 AM	11.75	0.40	456.23
			21-Oct-04 9:42 AM	14.40	0.40	453.58
			18-Nov-04 11:13 AM	14.25	0.40	453.74
			15-Dec-04 1:52 PM	15.13	0.40	452.86
			12-Jan-05 12:54 PM	15.82	0.63	452.26
			08-Feb-05 11:45 AM	15.65	0.63	452.44
			09-Mar-05 1:09 PM	17.04	0.63	451.04
MW-39-80	83	467.92	20-May-04 10:36 AM	11.89	0.74	456.15
			17-Jun-04 1:28 PM	11.90	0.60	456.07
			20-Oct-04 11:20 AM	14.63	0.60	453.34
			18-Nov-04 12:25 PM	14.44	0.60	453.54
			15-Dec-04 11:34 AM	14.42	0.60	453.56
			14-Jan-05 8:55 AM	16.00	0.97	452.15
			08-Feb-05 9:44 AM	15.55	0.97	452.62
			09-Mar-05 3:07 PM	17.01	0.97	451.14
MW-39-100	118	468.01	21-May-04 10:04 AM	11.96	0.90	456.34
			15-Jun-04 11:55 AM	11.97	1.00	456.41
			16-Jun-04 11:41 AM	11.97	1.00	456.41
			23-Sep-04 2:35 PM	14.07	0.95	454.26
			21-Oct-04 12:03 PM	14.53	0.95	453.80
			17-Nov-04 2:25 PM	14.58	0.95	453.77
			15-Dec-04 2:30 PM	14.30	0.95	454.05
			12-Jan-05 11:55 AM	15.88	0.89	452.43
			27-Jan-05 10:00 AM	16.04	0.89	452.26
			09-Feb-05 12:36 PM	15.80	0.89	452.52
			09-Feb-05 1:13 PM	15.77	0.89	452.55
			10-Mar-05 1:48 PM	16.80	0.89	451.50
MW-40D	266	566.08	10-May-04 2:20 PM	109.98	0.80	456.17
			14-Jun-04 12:35 PM	110.00	1.00	456.37
			22-Sep-04 9:45 AM	110.98	0.89	455.27
			16-Dec-04 9:53 AM	112.17	0.89	454.12
			10-Mar-05 10:54 AM	112.74	0.89	453.56
MW-40S	134	566.04	11-May-04 9:00 AM	110.00	0.10	455.95

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Monitoring Wells							
MW-40S	134	566.04	14-Jun-04	8:15 AM	109.60	0.10	456.34
			22-Sep-04	9:46 AM	110.55	0.10	455.40
			16-Dec-04	9:09 AM	111.82	0.10	454.14
			10-Mar-05	9:46 AM	112.30	0.10	453.66
MW-41D	313	479.42	18-Nov-04	8:45 AM	24.95	1.43	456.27
			15-Dec-04	11:16 AM	25.32	1.43	455.83
			11-Mar-05	8:55 AM	26.25	1.43	454.88
MW-41M	192	479.83	18-Nov-04	10:05 AM	24.80	1.12	455.82
			15-Dec-04	12:28 PM	25.21	1.12	455.34
			11-Mar-05	10:08 AM	26.14	1.12	454.37
MW-41S	62	480.07	18-Nov-04	11:00 AM	25.42	0.49	454.65
			16-Dec-04	11:26 AM	25.92	0.49	454.14
			10-Mar-05	2:51 PM	26.87	0.49	453.19
PGE-6	181	563.32	15-Mar-04	12:13 PM	108.14	0.30	455.05
PGE-7	332	563.89	15-Mar-04	12:16 PM	108.80	1.00	455.82
PGE-8	564	596.01	15-Mar-04	10:15 AM	141.07	1.30	456.96
Park Moabi	252	518.55	16-Mar-04	10:00 AM	61.34	0.08	456.62
Surface Water Stations							
A-Dock	---	460.22	15-Mar-04	10:47 AM	4.95	0.00	455.27
			11-Jun-04	10:12 AM	6.00	0.00	454.22
I-3	---	460.30	04-Mar-04	9:55 AM	5.60	0.00	454.70
			13-Mar-04	11:45 AM	4.59	0.00	455.71
			15-Mar-04	12:10 PM	5.62	0.00	454.68
			15-Mar-04	10:30 AM	5.62	0.00	454.68
			31-Mar-04	2:15 PM	5.47	0.00	454.83
			01-Apr-04	10:10 AM	4.91	0.00	455.39
			07-Apr-04	11:30 AM	4.61	0.00	455.69
			08-Apr-04	10:20 AM	4.89	0.00	455.41
			28-Apr-04	12:52 PM	4.80	0.00	455.50
			29-Apr-04	9:44 AM	3.73	0.00	456.57
			13-May-04	2:32 PM	5.60	0.00	454.70
			10-Jun-04	12:56 PM	5.07	0.00	455.23
			15-Jul-04	11:45 AM	5.07	0.00	455.23
			17-Sep-04	12:18 PM	6.05	0.00	454.25
			16-Dec-04	12:53 PM	7.16	0.00	453.14
			01-Mar-05	12:18 PM	7.80	0.00	452.50
RRB	---	476.63	04-Mar-04	9:45 AM	21.61	0.00	455.02
			15-Mar-04	10:40 AM	21.61	0.00	455.02
			15-Mar-04	1:20 PM	21.61	0.00	455.02
			31-Mar-04	2:05 PM	21.40	0.00	455.23
			01-Apr-04	10:30 AM	20.96	0.00	455.67

Table 6
Manual Water Level Measurements and Elevations
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)*	Monitoring Date & Time	Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation	
						Adjusted for Salinity (feet AMSL)	
Surface Water Stations							
RRB	---	476.63	07-Apr-04	11:40 AM	20.76	0.00	455.87
			08-Apr-04	10:10 AM	20.87	0.00	455.76
			13-Apr-04	1:45 PM	20.91	0.00	455.72
			28-Apr-04	12:42 PM	20.72	0.00	455.91
			29-Apr-04	9:54 AM	19.66	0.00	456.97
			13-May-04	11:45 AM	21.43	0.00	455.20
			10-Jun-04	12:10 PM	20.83	0.00	455.80
			15-Jul-04	12:12 PM	21.40	0.00	455.23
			17-Sep-04	10:30 AM	21.85	0.00	454.78
			16-Dec-04	11:40 AM	23.35	0.00	453.28
			01-Mar-05	2:38 PM	23.09	0.00	453.54

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.

+ Measured during active pumping.

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-9	16-Mar-04	3,570	28.69	7.44	109	4.69
	09-Jun-04	3,250	29.10	7.51	124	---
	21-Sep-04	2,900	29.08	7.23	73	7.28
	17-Dec-04	---	27.80	7.27	124	7.19
	11-Jan-05	3,180	29.00	7.14	169	8.71
	08-Mar-05	3,490	29.51	7.44	164	8.65
MW-10	16-Mar-04	4,090	28.56	7.41	101	5.63
	10-Jun-04	3,860	28.93	7.28	179	---
	21-Sep-04	3,290	28.98	7.16	53	4.68
	17-Dec-04	---	27.50	7.34	113	2.64
	11-Jan-05	3,190	28.60	7.37	148	1.77
	08-Mar-05	3,850	29.10	7.35	124	2.92
MW-11	16-Mar-04	2,830	29.08	7.42	111	5.90
	10-Jun-04	2,510	29.22	7.17	170	7.04
	21-Sep-04	2,300	29.38	7.08	61	7.87
	17-Dec-04	---	27.80	7.29	111	5.70
	11-Jan-05	2,800	27.10	7.39	143	6.69
	08-Mar-05	2,670	29.36	7.31	133	7.02
MW-12	16-Mar-04	---	28.83	8.56	141	6.41
	09-Jun-04	4,710	28.34	8.53	67	---
	20-Sep-04	4,480	28.30	8.08	26	6.15
	10-Mar-05	---	28.43	8.90	34	7.04
MW-13	17-Mar-04	---	29.32	7.78	84	6.43
	09-Jun-04	2,270	28.40	7.54	10	---
	24-Sep-04	1,950	28.43	7.83	107	6.55
	16-Dec-04	1,750	28.16	7.64	152	7.57
	11-Mar-05	1,950	29.17	7.47	69	5.57
MW-14	16-Mar-04	1,770	28.61	7.69	10	7.04
	08-Jun-04	2,930	29.59	7.77	73	---
	20-Sep-04	1,590	28.90	7.45	47	6.50
	16-Dec-04	1,350	26.48	7.76	156	8.20
	09-Mar-05	1,640	28.90	7.68	160	6.52
MW-15	16-Mar-04	2,200	29.37	7.53	-71	7.75
	07-Jun-04	1,660	29.90	8.72	-16	---
	22-Sep-04	---	29.28	---	54	---
	17-Dec-04	---	28.80	7.56	-30	6.81
	09-Mar-05	1,470	29.57	7.64	94	8.33
MW-16	16-Mar-04	1,360	29.43	7.81	-7	8.05
	09-Jun-04	1,290	29.41	8.01	21	---
	16-Dec-04	1,690	28.80	7.89	-6	5.54
MW-17	16-Mar-04	2,030	29.35	7.60	15	5.31
	07-Jun-04	1,870	32.25	8.86	50	---

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-17	16-Dec-04	1,540	30.00	7.82	187	---
MW-18	16-Mar-04	1,450	28.58	7.65	55	8.51
	09-Jun-04	1,660	28.53	7.54	101	---
	24-Sep-04	1,280	28.39	7.47	132	8.06
	16-Dec-04	1,120	26.01	7.76	183	8.66
	09-Mar-05	1,290	28.60	7.58	150	8.30
MW-19	16-Mar-04	---	29.00	7.82	92	7.18
	08-Jun-04	4,390	29.18	7.74	68	---
	20-Sep-04	2,380	28.67	7.31	37	5.49
	17-Dec-04	---	28.40	7.35	13	6.33
	07-Mar-05	2,200	28.43	7.49	100	6.67
MW-20-70	03-Mar-04	---	28.71	7.38	147	4.30
	15-Mar-04	---	27.97	7.60	198	5.44
	11-May-04	3,560	30.42	7.04	---	7.95
	11-Jun-04	4,360	30.10	7.71	35	6.58
	24-Sep-04	3,220	29.32	8.00	89	8.79
	16-Dec-04	3,440	22.61	8.00	150	---
	10-Mar-05	---	29.40	7.46	151	8.77
MW-20-100	03-Mar-04	---	28.73	7.54	138	3.20
	15-Mar-04	---	29.36	7.60	155	3.58
	11-May-04	5,460	29.87	7.49	---	6.44
	11-Jun-04	6,330	30.20	7.94	8	4.20
	24-Sep-04	4,410	31.06	7.90	89	1.13
	16-Dec-04	4,770	26.57	8.29	126	---
	10-Mar-05	7,100	29.70	7.64	110	0.40
MW-20-130	03-Mar-04	---	27.85	7.43	153	2.80
	15-Mar-04	---	28.35	7.96	177	4.31
	11-May-04	12,000	29.86	6.90	---	8.35
	11-Jun-04	13,800	30.10	8.08	8	4.66
	24-Sep-04	11,400	29.61	8.16	72	1.57
	27-Jan-05	---	27.80	7.66	38	1.81
	09-Mar-05	12,800	29.00	6.63	126	0.02
MW-21	16-Mar-04	---	29.11	6.78	-157	2.70
	14-Apr-04	3,140	28.17	7.17	-110	---
	11-May-04	11,100	28.30	7.19	-125	---
	08-Jun-04	11,300	29.09	7.89	-69	---
	14-Jul-04	16,700	28.00	7.18	---	5.62
	12-Aug-04	13,500	39.13	7.36	19	7.86
	21-Sep-04	10,900	28.43	6.95	-128	7.29
	17-Dec-04	---	25.40	7.19	-97	4.71
	08-Mar-05	11,300	28.01	7.04	-86	6.00
MW-22	19-Mar-04	33,100	22.46	6.96	-162	---
	07-Jun-04	24,500	25.40	6.95	-67	2.60

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-22	23-Sep-04	33,500	29.30	7.59	-111	0.34
	16-Dec-04	32,600	23.97	7.33	-113	---
	10-Mar-05	46,300	22.00	7.13	-150	4.74
MW-23	16-Mar-04	---	29.51	6.79	-196	3.86
	08-Jun-04	17,300	28.46	7.66	-66	4.86
	21-Sep-04	16,800	28.37	6.71	-152	5.26
	16-Dec-04	---	26.90	7.01	-72	2.24
	08-Mar-05	19,100	27.98	7.01	-48	3.64
MW-24A	17-Mar-04	---	29.26	7.96	59	6.53
	08-Jun-04	3,450	29.19	7.80	27	---
	20-Sep-04	3,530	29.07	7.39	63	4.24
	17-Dec-04	---	28.00	7.51	118	2.35
	11-Jan-05	4,700	28.80	7.62	111	1.43
	07-Mar-05	3,460	28.76	7.51	49	3.09
MW-24B	17-Mar-04	---	30.37	8.35	-46	2.03
	08-Jun-04	13,100	30.20	7.92	66	3.02
	21-Sep-04	10,800	29.69	7.67	42	4.30
	17-Dec-04	---	27.10	7.77	104	1.01
	11-Jan-05	14,000	29.40	7.87	105	1.02
	07-Mar-05	14,300	29.65	7.87	-2	1.70
MW-24BR	17-Mar-04	---	32.41	7.85	-380	---
	08-Jun-04	14,400	33.13	8.95	-312	2.03
	21-Sep-04	13,500	32.22	7.65	-373	1.82
	16-Dec-04	---	27.90	7.82	-343	0.19
	08-Mar-05	15,200	30.04	7.72	-351	1.31
MW-25	03-Mar-04	---	28.39	7.44	157	4.40
	17-Mar-04	---	29.75	7.77	99	7.37
	14-May-04	1,980	30.10	7.56	53	7.40
	09-Jun-04	1,950	29.02	7.25	125	7.27
	22-Sep-04	1,640	30.45	7.41	75	7.01
	09-Mar-05	1,570	29.54	7.42	181	8.63
MW-26	03-Mar-04	---	29.63	7.36	158	4.30
	16-Mar-04	---	30.43	7.90	164	9.14
	14-May-04	4,130	30.30	7.52	56	---
	08-Jun-04	3,540	30.38	7.51	91	8.01
	22-Sep-04	3,130	30.10	7.27	92	8.43
	16-Dec-04	4,000	29.60	7.40	55	9.52
	08-Mar-05	3,450	29.77	7.47	123	10.03
MW-27-20	03-Mar-04	---	18.09	7.53	-211	1.30
	10-Mar-04	---	21.23	7.55	-157	2.41
	17-Mar-04	938	19.29	7.62	-234	2.57
	24-Mar-04	1,150	21.10	7.64	-219	2.97
	31-Mar-04	955	22.40	7.46	-198	3.85

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-27-20	07-Apr-04	835	19.95	7.48	-152	1.89
	13-Apr-04	1,140	21.36	7.61	-176	1.06
	21-Apr-04	706	20.70	7.64	-266	3.70
	28-Apr-04	848	21.40	7.55	-215	3.30
	05-May-04	940	21.80	7.63	-261	3.70
	12-May-04	940	21.40	7.71	---	3.90
	19-May-04	755	23.00	7.76	-220	5.10
	26-May-04	724	20.30	7.37	---	3.70
	02-Jun-04	849	22.00	7.29	-196	5.70
	08-Jun-04	680	20.50	7.36	-139	3.80
	17-Jun-04	1,090	21.52	7.72	-194	---
	23-Jun-04	1,120	21.92	7.74	-132	---
	30-Jun-04	791	21.83	7.05	-187	---
	07-Jul-04	1,100	22.00	7.23	-181	---
	13-Jul-04	1,050	23.90	7.40	-163	---
	21-Jul-04	1,110	22.50	7.69	-195	1.37
	27-Jul-04	730	23.10	7.50	-231	8.42
	04-Aug-04	1,040	23.01	7.22	-154	6.13
	11-Aug-04	860	23.51	7.35	-153	3.19
	19-Aug-04	690	22.66	7.24	-204	5.27
	21-Sep-04	970	23.19	8.08	-183	---
	19-Oct-04	1,230	22.77	7.62	-214	3.27
	15-Nov-04	1,220	20.82	8.18	-177	6.01
	02-Dec-04	1,030	20.04	8.25	-179	6.37
	15-Dec-04	1,320	19.01	8.07	-186	7.40
	10-Jan-05	3,140	17.40	7.33	-178	0.16
	09-Feb-05	3,500	16.60	7.61	-198	0.07
	08-Mar-05	2,180	17.60	7.57	-178	0.00
MW-27-60	01-Mar-05	13,400	22.20	7.36	-143	5.09
	08-Mar-05	18,000	21.30	7.22	-144	1.06
	23-Mar-05	12,700	21.98	7.35	-124	1.74
	29-Mar-05	16,800	22.90	7.29	-154	0.26
MW-27-85	01-Mar-05	18,600	22.50	7.61	-155	4.94
	08-Mar-05	22,000	22.70	7.47	-152	0.15
	23-Mar-05	16,100	22.48	7.50	-145	1.03
	29-Mar-05	19,700	23.50	7.21	-167	0.52
MW-28-25	04-Mar-04	---	24.94	7.61	92	2.90
	10-Mar-04	---	24.57	7.69	-115	2.44
	17-Mar-04	2,290	24.22	7.44	-169	3.56
	24-Mar-04	2,490	26.00	7.40	-163	3.55
	31-Mar-04	1,580	26.10	7.39	-134	3.84
	07-Apr-04	1,590	23.38	7.33	-130	3.11
	13-Apr-04	1,550	24.59	7.37	-140	4.78
	21-Apr-04	1,210	24.50	7.39	-222	3.50

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-28-25	28-Apr-04	1,470	25.10	7.36	-200	2.20
	05-May-04	1,520	26.60	7.35	-210	2.50
	11-May-04	1,140	25.00	7.56	-175	4.20
	20-May-04	1,370	24.70	7.20	-149	3.40
	26-May-04	1,420	24.20	7.08	---	3.70
	02-Jun-04	1,550	27.00	7.29	-137	4.50
	07-Jun-04	1,420	25.60	7.36	-94	3.80
	16-Jun-04	1,370	25.50	7.53	-155	3.55
	23-Jun-04	1,450	26.61	8.25	-74	---
	30-Jun-04	1,500	25.32	6.93	-126	---
	07-Jul-04	1,330	26.50	7.09	-72	---
	13-Jul-04	1,430	27.50	7.43	-112	---
	21-Jul-04	1,300	27.20	7.23	-104	---
	27-Jul-04	---	26.60	7.29	-160	---
	04-Aug-04	2,350	28.75	7.36	-30	---
	11-Aug-04	1,610	27.70	7.29	-37	3.94
	19-Aug-04	1,210	25.14	7.06	-111	3.18
	20-Sep-04	1,330	25.90	7.74	---	---
	19-Oct-04	1,280	25.44	7.36	-70	---
	15-Nov-04	1,570	24.59	7.77	-33	4.97
	02-Dec-04	1,260	23.91	8.04	-170	5.63
	14-Dec-04	---	24.70	7.35	-43	---
	11-Jan-05	1,560	23.14	7.53	-115	7.15
	10-Mar-05	1,400	23.52	7.62	60	5.63
MW-28-90	29-Apr-04	11,400	23.60	8.20	-329	2.10
	10-Jun-04	11,100	23.20	8.08	-184	2.38
	26-Aug-04	9,400	23.51	7.66	-246	2.93
	09-Sep-04	9,600	24.17	7.70	-321	2.29
	20-Sep-04	10,100	23.90	8.35	-124	---
	06-Oct-04	9,900	23.12	7.74	-199	5.10
	19-Oct-04	9,760	23.34	7.80	-193	---
	02-Nov-04	10,200	22.50	7.39	-160	4.56
	15-Nov-04	11,000	22.97	8.30	-143	4.96
	02-Dec-04	9,120	21.25	8.46	-201	5.85
	13-Dec-04	9,000	22.46	7.80	-137	---
	29-Dec-04	15,900	21.70	7.70	-175	0.34
	11-Jan-05	14,200	22.01	7.95	-193	7.11
	27-Jan-05	12,100	22.60	7.87	-203	0.13
	08-Feb-05	9,430	21.70	7.79	-181	0.03
	22-Feb-05	9,300	22.22	8.23	-54	5.84
	07-Mar-05	12,300	23.30	7.83	-190	0.05
	22-Mar-05	12,200	23.00	7.81	-203	0.18
MW-29	18-Mar-04	---	25.66	7.70	-164	1.93
	13-Apr-04	4,250	24.48	7.25	-191	0.21

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-29	11-May-04	3,030	25.20	7.49	-275	3.30
	09-Jun-04	2,730	25.00	7.29	-158	2.59
	13-Jul-04	3,830	25.30	7.35	-174	---
	04-Aug-04	3,770	25.23	7.41	-20	0.78
	11-Aug-04	4,700	25.56	7.06	-168	2.28
	20-Sep-04	2,980	25.70	7.68	-125	---
	19-Oct-04	3,820	25.62	7.17	-203	---
	15-Nov-04	5,510	25.10	7.40	-184	---
	02-Dec-04	6,420	24.76	7.84	-208	5.62
	14-Dec-04	---	---	---	---	---
	11-Jan-05	1,700	25.27	7.29	-147	6.45
	07-Feb-05	20,100	25.40	7.12	-150	0.46
	09-Mar-05	32,900	25.70	7.02	-127	1.72
MW-30-30	04-Mar-04	---	25.70	7.04	-118	0.80
	11-Mar-04	---	26.65	7.50	-121	0.50
	18-Mar-04	48,300	27.44	6.98	-160	1.45
	24-Mar-04	48,700	27.70	7.00	-172	2.80
	31-Mar-04	47,500	28.80	6.87	-151	3.97
	07-Apr-04	43,000	26.25	7.16	-122	1.26
	14-Apr-04	99,900	26.56	7.08	-155	0.18
	21-Apr-04	48,300	27.30	6.86	-167	2.60
	28-Apr-04	51,400	28.70	6.87	-154	2.20
	05-May-04	50,900	28.50	6.86	-190	2.30
	12-May-04	44,100	27.00	6.92	---	2.50
	20-May-04	44,200	26.90	7.03	-166	2.70
	26-May-04	58,300	27.50	6.80	---	2.60
	03-Jun-04	38,900	27.60	6.96	-185	2.60
	09-Jun-04	38,700	27.30	6.91	-99	3.31
	16-Jun-04	45,100	27.50	6.99	-183	3.57
	24-Jun-04	44,900	27.98	6.98	-74	---
	01-Jul-04	41,000	27.60	6.95	-207	---
	08-Jul-04	41,300	27.80	7.01	-129	2.56
	14-Jul-04	53,800	26.90	6.93	-135	3.54
	22-Jul-04	45,400	28.10	6.94	-141	1.15
	28-Jul-04	42,100	27.82	6.81	-185	3.84
	04-Aug-04	42,300	27.90	6.71	-98	1.21
	12-Aug-04	53,200	28.39	6.64	-97	3.17
	19-Aug-04	43,500	27.88	6.63	-156	1.87
	23-Sep-04	51,700	28.09	7.75	-132	0.15
	20-Oct-04	52,600	26.53	6.83	-126	3.22
	16-Nov-04	58,600	26.64	7.26	-121	3.25
	15-Dec-04	---	25.76	7.26	-116	4.38
	11-Jan-05	---	26.19	6.93	-118	4.62
	09-Feb-05	59,700	25.20	7.10	-121	0.23

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-30-30	10-Mar-05	65,900	24.62	7.25	-84	4.11
MW-30-50	05-Mar-04	---	26.37	7.29	-75	1.50
	11-Mar-04	---	26.89	7.60	-42	1.36
	18-Mar-04	10,800	27.72	7.36	-66	0.36
	25-Mar-04	11,900	27.50	7.54	-45	3.30
	01-Apr-04	10,000	27.70	7.53	-15	2.12
	08-Apr-04	---	26.71	6.83	70	0.24
	15-Apr-04	10,600	27.40	7.23	26	2.30
	22-Apr-04	10,900	26.70	7.20	27	2.00
	29-Apr-04	11,600	26.90	7.28	26	1.90
	06-May-04	12,000	27.70	7.25	16	2.10
	14-May-04	10,600	26.90	7.34	47	2.40
	20-May-04	11,500	27.60	7.39	11	2.60
	27-May-04	11,200	28.30	7.35	---	2.60
	03-Jun-04	10,500	28.30	7.35	13	2.80
	09-Jun-04	10,400	27.10	7.37	-23	2.88
	16-Jun-04	12,000	27.20	7.38	79	3.65
	24-Jun-04	10,000	27.19	7.38	191	---
	01-Jul-04	11,500	27.40	7.38	-22	---
	08-Jul-04	10,700	27.60	7.31	45	1.45
	15-Jul-04	14,500	27.30	7.17	50	---
	22-Jul-04	13,000	27.40	7.36	16	0.47
	28-Jul-04	9,800	27.13	7.13	10	0.63
	05-Aug-04	11,400	22.43	6.78	51	0.85
	12-Aug-04	10,700	27.17	6.89	-103	2.28
	20-Aug-04	9,900	27.00	6.85	-83	1.74
	23-Sep-04	10,500	27.15	8.03	-63	0.00
	21-Oct-04	10,300	25.46	7.14	-63	0.04
	17-Nov-04	10,000	26.07	7.12	-87	5.17
	15-Dec-04	10,300	25.26	7.62	-115	5.84
	11-Jan-05	13,600	25.42	7.25	-215	6.36
	09-Feb-05	13,300	25.60	7.39	-155	0.00
	10-Mar-05	9,000	26.87	7.55	-230	4.66
MW-31-60	03-Mar-04	---	28.05	7.45	160	4.80
	16-Mar-04	---	29.84	7.88	149	6.98
	14-May-04	3,310	29.00	7.61	51	7.20
	08-Jun-04	3,790	29.14	7.66	80	8.46
	22-Sep-04	2,970	29.30	7.50	85	7.17
	16-Nov-04	2,890	27.87	7.48	85	7.23
	16-Dec-04	3,240	28.00	7.62	5	6.12
	09-Mar-05	2,860	28.99	7.64	192	6.87
MW-31-135	16-Apr-04	13,500	29.50	7.96	-150	2.10
	10-Jun-04	13,100	29.58	7.68	-30	0.60
	23-Sep-04	9,500	30.45	7.78	17	5.03

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-31-135	14-Dec-04	13,700	28.59	7.70	-23	6.15
	10-Mar-05	12,500	30.00	7.86	42	1.49
MW-32-20	04-Mar-04	---	23.73	6.99	-151	1.70
	18-Mar-04	---	24.86	7.35	-148	1.38
	13-Apr-04	8,080	25.16	6.82	-139	0.31
	12-May-04	8,270	26.10	6.79	-183	3.50
	07-Jun-04	7,540	26.20	6.76	-121	3.20
	13-Jul-04	7,120	27.40	6.78	-143	2.70
	11-Aug-04	---	28.67	6.68	-182	2.60
	20-Sep-04	---	28.40	7.12	-129	---
	19-Oct-04	25,300	28.66	6.69	-147	2.13
	15-Nov-04	28,400	26.53	7.24	-147	4.51
	02-Dec-04	24,700	25.73	7.30	-145	4.92
	14-Dec-04	28,500	25.40	6.86	-161	2.10
	10-Jan-05	26,900	23.40	6.68	-157	0.13
	07-Feb-05	25,900	22.60	6.94	-155	0.02
	09-Mar-05	29,900	22.80	6.84	-161	0.03
MW-32-35	04-Mar-04	---	25.58	7.35	-193	1.90
	18-Mar-04	---	26.10	7.71	-165	1.34
	13-Apr-04	6,500	25.57	7.29	-167	0.17
	12-May-04	7,460	26.20	7.19	-218	3.00
	08-Jun-04	7,390	25.80	6.95	-130	3.10
	14-Jul-04	6,940	25.90	7.17	-162	---
	11-Aug-04	8,600	27.05	7.08	-140	3.17
	21-Sep-04	5,880	25.54	7.61	-157	---
	19-Oct-04	6,710	25.49	7.13	-190	---
	15-Nov-04	7,500	24.99	7.71	-170	---
	02-Dec-04	7,700	24.34	7.78	-159	5.62
	15-Dec-04	---	24.47	7.61	-169	6.04
	10-Jan-05	7,510	24.80	7.05	-176	0.13
	07-Feb-05	10,000	25.10	7.29	-175	0.52
	09-Mar-05	12,400	25.80	7.23	-183	0.07
MW-33-40	18-Mar-04	4,440	27.48	8.28	-181	1.36
	14-Apr-04	16,400	26.60	8.20	-71	3.36
	12-May-04	5,530	27.50	8.48	-243	3.00
	09-Jun-04	4,720	27.40	8.44	-108	5.17
	13-Jul-04	4,750	28.40	8.57	-77	---
	11-Aug-04	8,450	28.13	7.99	-71	2.32
	19-Aug-04	8,490	27.13	7.55	-131	2.44
	21-Sep-04	---	28.44	8.17	-127	0.33
	20-Oct-04	17,300	27.06	7.56	-129	0.47
	16-Nov-04	15,700	27.07	8.07	-69	4.73
	15-Dec-04	9,000	26.60	8.34	-110	6.54
	11-Jan-05	8,600	26.69	7.97	-174	6.23

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Field Water Quality Measurements
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PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-33-40	07-Feb-05	7,540	27.20	7.96	-162	0.65
	09-Mar-05	7,050	27.90	7.97	-125	3.28
MW-33-90	18-Mar-04	8,140	27.22	7.76	-107	0.25
	14-Apr-04	---	26.93	7.77	-264	0.32
	06-May-04	9,750	27.30	7.64	9	2.30
	13-May-04	9,060	28.20	7.73	-42	3.10
	20-May-04	9,610	27.60	7.86	-53	2.80
	26-May-04	8,980	27.80	7.77	-171	3.20
	03-Jun-04	9,480	28.50	7.68	-61	3.10
	16-Jun-04	9,750	29.10	7.76	-106	4.14
	24-Jun-04	8,680	27.96	7.79	---	---
	01-Jul-04	9,800	28.30	7.62	-92	3.76
	08-Jul-04	8,600	28.50	7.68	-47	0.80
	14-Jul-04	12,700	28.50	7.66	-78	0.55
	22-Jul-04	11,300	28.70	7.69	-69	0.70
	28-Jul-04	8,310	28.35	7.47	-160	0.68
	05-Aug-04	9,900	28.46	7.21	34	0.98
	12-Aug-04	9,500	28.46	7.38	---	2.26
	20-Aug-04	9,230	27.81	7.34	-130	1.55
	26-Aug-04	8,200	28.63	7.41	-55	2.62
	08-Sep-04	8,540	28.55	7.31	-162	2.02
	21-Sep-04	8,620	28.32	8.23	-124	0.25
	06-Oct-04	8,580	29.39	7.80	-190	1.14
	20-Oct-04	8,380	27.44	7.70	-132	0.32
	02-Nov-04	8,860	27.44	7.64	-185	3.18
	16-Nov-04	11,400	26.75	8.21	-93	3.91
	02-Dec-04	7,730	24.32	8.38	-199	5.46
	29-Dec-04	15,000	26.80	7.64	-115	0.54
	11-Jan-05	8,840	27.08	7.75	-113	---
	27-Jan-05	10,100	26.20	7.70	-138	0.71
	07-Feb-05	9,320	27.20	7.69	-75	0.54
	22-Feb-05	8,930	27.25	8.17	10	5.22
	09-Mar-05	---	28.30	7.59	-101	0.66
	22-Mar-05	14,600	28.10	7.73	-92	4.74
MW-34-55	04-Mar-04	---	23.21	7.38	-97	1.40
	11-Mar-04	---	24.00	7.70	-88	1.32
	17-Mar-04	12,200	23.27	7.28	-134	---
	24-Mar-04	14,500	23.70	7.36	-200	2.16
	31-Mar-04	11,000	24.30	7.25	-113	2.49
	07-Apr-04	11,100	23.30	7.32	-112	2.51
	15-Apr-04	10,400	24.00	7.18	-134	3.20
	22-Apr-04	12,300	23.10	7.19	-140	2.10
	29-Apr-04	11,100	23.10	7.26	-135	2.00
	06-May-04	11,100	23.50	7.22	-150	2.20

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Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-55	13-May-04	10,000	23.50	7.26	-153	3.00
	19-May-04	9,500	23.90	7.77	-138	2.70
	27-May-04	10,400	23.40	7.42	---	2.30
	02-Jun-04	16,300	23.80	7.31	-141	2.40
	08-Jun-04	9,700	23.20	7.17	-63	2.90
	17-Jun-04	9,900	23.13	7.36	-90	---
	23-Jun-04	10,000	22.93	7.35	29	---
	30-Jun-04	10,200	23.05	7.36	-5	---
	07-Jul-04	9,280	23.50	7.04	-62	---
	14-Jul-04	9,390	23.30	7.30	-109	0.49
	21-Jul-04	9,670	24.60	7.36	-82	0.51
	27-Jul-04	9,110	23.40	7.54	-153	---
	04-Aug-04	9,600	23.25	7.24	-24	0.96
	11-Aug-04	10,600	23.53	7.19	-56	2.17
	19-Aug-04	8,920	23.05	6.98	-94	2.15
	22-Sep-04	9,410	22.94	7.68	-94	---
	20-Oct-04	9,330	22.73	7.32	-108	---
	16-Nov-04	9,600	22.40	7.80	-88	3.90
	15-Dec-04	9,000	22.21	7.70	-94	6.31
	12-Jan-05	12,100	21.86	7.24	-101	6.37
	09-Feb-05	12,600	22.00	7.50	-112	0.00
	10-Mar-05	9,000	23.12	7.66	-191	5.13
MW-34-80	05-Mar-04	---	22.90	7.74	73	1.40
	11-Mar-04	---	23.78	7.97	-63	1.01
	17-Mar-04	15,500	23.07	7.50	-112	---
	25-Mar-04	15,300	24.00	7.58	-135	2.50
	01-Apr-04	14,000	25.00	7.56	-77	2.35
	08-Apr-04	---	23.26	6.85	-31	---
	16-Apr-04	13,400	24.20	7.26	-83	2.20
	22-Apr-04	14,400	23.60	7.22	-81	2.10
	29-Apr-04	15,400	23.50	7.30	-101	2.00
	06-May-04	15,600	24.20	7.22	-97	2.00
	13-May-04	14,400	24.70	7.28	-107	3.20
	20-May-04	15,900	23.90	7.39	-92	2.50
	27-May-04	14,700	24.30	7.41	---	2.40
	02-Jun-04	15,000	24.40	7.27	-81	2.80
	08-Jun-04	13,700	23.80	7.19	-26	2.80
	17-Jun-04	13,900	23.75	7.27	-121	---
	23-Jun-04	14,500	23.95	7.32	-20	---
	30-Jun-04	14,900	23.47	7.29	18	---
	07-Jul-04	14,600	24.50	7.00	-126	---
	15-Jul-04	19,400	23.90	7.14	-74	---
	21-Jul-04	19,400	24.40	7.27	-77	---
	27-Jul-04	13,300	24.30	7.46	-170	---

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Field Water Quality Measurements
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Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-80	05-Aug-04	16,400	23.72	6.78	-32	0.76
	12-Aug-04	15,500	23.56	6.95	-216	1.96
	20-Aug-04	14,300	23.46	6.93	-171	1.48
	26-Aug-04	12,700	23.55	7.03	-154	2.63
	08-Sep-04	13,000	23.95	6.89	-194	2.34
	23-Sep-04	13,100	22.85	7.98	-82	---
	06-Oct-04	12,800	23.36	7.31	-194	---
	20-Oct-04	13,200	22.68	7.21	-175	---
	02-Nov-04	13,700	22.82	7.20	-219	3.37
	17-Nov-04	12,700	22.25	7.10	-209	5.99
	02-Dec-04	10,400	21.39	7.83	-238	5.72
	13-Dec-04	12,700	22.52	7.66	-174	6.07
	29-Dec-04	19,600	22.60	7.17	-99	0.19
	12-Jan-05	17,300	22.45	7.16	-181	6.21
	27-Jan-05	14,800	23.10	7.24	-134	0.11
	08-Feb-05	15,500	22.70	7.30	-162	0.00
	22-Feb-05	14,100	22.14	7.64	-95	5.77
	01-Mar-05	13,300	22.52	7.33	-127	5.14
	08-Mar-05	17,600	24.00	7.24	-84	0.04
	22-Mar-05	15,200	24.10	7.21	-83	0.16
	29-Mar-05	16,800	22.90	7.23	-214	0.00
MW-34-100	01-Mar-05	15,700	23.40	7.58	-86	5.04
	08-Mar-05	19,900	24.90	7.47	-60	0.41
	23-Mar-05	14,600	23.66	7.58	-98	0.76
	29-Mar-05	18,100	24.90	7.46	-96	0.46
MW-35-60	15-Apr-04	6,380	26.90	7.52	-53	2.80
	10-Jun-04	7,580	27.70	7.72	93	3.81
	22-Sep-04	7,240	28.07	7.31	-22	4.71
	13-Dec-04	7,010	27.10	7.46	-53	1.08
	15-Mar-05	6,510	26.63	7.89	-18	2.22
MW-35-135	15-Apr-04	12,300	28.20	7.75	-247	3.00
	10-Jun-04	12,500	27.79	7.48	14	2.02
	23-Sep-04	9,400	28.51	7.60	-50	5.19
	13-Dec-04	---	27.10	7.71	-75	0.12
	15-Mar-05	10,800	27.00	8.09	-108	2.11
MW-36-20	18-May-04	11,700	26.10	7.34	-265	3.50
	15-Jun-04	11,000	26.56	7.32	-182	---
	21-Sep-04	16,900	27.30	7.32	-179	4.93
	19-Oct-04	---	26.86	7.03	-128	5.45
	17-Nov-04	22,800	26.16	7.58	-152	4.18
	14-Dec-04	---	26.07	7.57	-151	5.97
	11-Jan-05	38,900	24.70	7.02	-112	0.88
	07-Feb-05	31,400	24.84	6.96	-62	6.16

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March 2004 through March 2005
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Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-20	09-Mar-05	22,600	25.39	7.61	-88	7.59
MW-36-40	18-May-04	9,420	26.70	7.31	-271	3.20
	16-Jun-04	8,890	27.77	7.24	-192	---
	21-Sep-04	8,800	27.24	7.45	-185	5.06
	19-Oct-04	9,400	25.86	7.41	12	---
	17-Nov-04	14,400	24.92	7.75	-166	4.25
	14-Dec-04	---	23.70	7.36	-168	0.11
	12-Jan-05	8,500	25.30	7.35	-191	0.26
	07-Feb-05	11,300	25.19	7.21	-151	6.60
	08-Mar-05	9,000	25.53	7.82	-194	5.54
MW-36-50	19-May-04	8,606	26.50	6.30	-32	2.15
	17-Jun-04	9,500	26.80	7.24	-219	3.74
	21-Sep-04	7,370	27.02	7.39	-191	4.89
	18-Oct-04	9,140	26.07	7.28	13	---
	17-Nov-04	10,700	24.67	7.76	-147	4.47
	14-Dec-04	---	24.10	7.28	-151	0.31
	12-Jan-05	5,630	25.10	7.29	-163	0.22
	07-Feb-05	11,000	25.06	7.02	-131	5.61
	08-Mar-05	8,800	25.42	7.70	-168	5.53
MW-36-70	19-May-04	12,770	27.06	6.44	-88	0.63
	17-Jun-04	13,300	27.10	6.98	-201	3.90
	22-Sep-04	10,900	26.04	6.96	-151	3.95
	20-Oct-04	10,700	25.40	6.82	-135	6.33
	17-Nov-04	11,700	25.26	7.59	-126	4.28
	14-Dec-04	9,200	25.27	7.64	-131	6.52
	11-Jan-05	12,100	24.70	7.19	-130	0.30
	07-Feb-05	18,500	24.74	6.94	-60	7.19
	08-Mar-05	11,300	26.81	7.60	-115	5.17
MW-36-90	18-May-04	15,300	27.20	7.58	-53	2.50
	15-Jun-04	16,000	27.05	7.51	103	7.48
	23-Sep-04	15,100	27.17	7.65	67	---
	19-Oct-04	15,700	25.73	7.59	16	6.78
	17-Nov-04	---	25.21	7.95	-27	4.14
	14-Dec-04	---	23.50	7.43	-8	1.06
	12-Jan-05	11,900	24.10	7.35	-137	0.21
	07-Feb-05	19,300	24.99	7.14	51	5.37
	09-Mar-05	18,100	25.35	7.74	49	5.10
MW-36-100	21-May-04	15,900	26.20	8.17	-134	2.50
	15-Jun-04	16,500	26.39	7.88	-85	---
	26-Aug-04	14,400	26.84	7.53	-82	3.09
	09-Sep-04	14,800	26.81	7.54	-109	2.72
	23-Sep-04	15,000	26.23	8.64	-50	---
	06-Oct-04	15,200	26.53	7.84	-78	0.18

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Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-100	21-Oct-04	15,500	25.21	7.72	-55	---
	02-Nov-04	16,300	24.67	7.65	-36	3.60
	17-Nov-04	15,400	25.08	7.55	-16	5.85
	02-Dec-04	14,000	24.86	8.22	-67	5.50
	29-Dec-04	---	25.10	7.48	-40	0.21
	12-Jan-05	22,300	24.78	7.46	-9	6.06
	27-Jan-05	19,300	25.40	7.52	-33	0.21
	09-Feb-05	20,900	24.20	7.66	-12	0.02
	22-Feb-05	18,700	24.79	7.92	55	5.16
	09-Mar-05	22,600	27.30	7.34	-20	0.26
	22-Mar-05	19,900	26.10	7.46	-16	0.19
MW-37D	19-May-04	14,000	30.70	8.42	-125	2.90
	11-Jun-04	13,800	30.65	7.62	-152	0.40
	24-Sep-04	11,900	30.39	7.49	-41	4.84
	14-Dec-04	17,000	29.76	7.70	3	6.22
	11-Mar-05	---	30.80	7.99	21	4.37
MW-37S	19-May-04	4,230	29.50	7.84	-106	3.60
	10-Jun-04	5,180	29.50	7.76	-60	4.09
	23-Sep-04	4,380	29.58	7.46	16	5.48
	13-Dec-04	4,470	28.70	7.74	-66	2.62
	11-Mar-05	---	29.38	7.88	36	5.15
MW-38D	05-May-04	24,900	30.80	7.96	4	2.20
	10-Jun-04	21,900	30.93	7.75	-61	0.48
	23-Sep-04	17,400	31.77	7.76	15	4.51
	14-Dec-04	---	28.77	7.25	99	5.44
	11-Mar-05	23,500	30.47	8.00	56	3.95
MW-38S	14-May-04	4,260	29.50	7.61	17	3.50
	11-Jun-04	4,430	30.00	7.22	127	0.24
	17-Jun-04	4,560	30.08	7.48	17	0.20
	24-Sep-04	3,940	29.01	6.94	129	4.88
	14-Dec-04	4,500	28.82	7.25	53	6.24
	11-Mar-05	4,650	28.38	7.36	120	5.36
MW-39-40	20-May-04	5,495	27.20	7.20	-173	6.99
	18-Jun-04	6,470	27.80	7.59	-220	3.14
	20-Oct-04	5,930	26.70	7.53	-194	6.71
	17-Nov-04	6,800	26.27	8.10	-181	4.19
	15-Dec-04	---	26.20	7.69	-173	0.52
	12-Jan-05	4,180	25.60	7.50	-180	0.40
	08-Feb-05	7,390	26.33	8.03	-160	5.38
	09-Mar-05	8,290	26.78	7.86	-177	5.01
MW-39-50	20-May-04	6,983	27.34	7.07	331	2.69
	18-Jun-04	9,380	28.30	7.49	-40	3.48
	20-Oct-04	8,700	26.87	7.38	18	7.10

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-39-50	18-Nov-04	11,800	25.84	7.29	12	---
	15-Dec-04	---	25.90	7.40	18	3.01
	14-Jan-05	11,900	25.70	7.69	77	0.80
	08-Feb-05	14,500	26.14	7.91	76	5.35
	09-Mar-05	14,400	26.68	7.65	11	4.96
MW-39-60	20-May-04	6,484	27.17	7.33	278	1.21
	18-Jun-04	7,700	28.30	7.80	-98	3.49
	20-Oct-04	7,670	26.62	7.37	32	7.02
	18-Nov-04	8,690	26.86	7.47	31	6.30
	15-Dec-04	---	25.70	7.45	29	0.34
	14-Jan-05	10,500	25.50	7.64	95	---
	08-Feb-05	12,900	26.09	7.87	106	5.17
	09-Mar-05	15,200	26.84	7.58	65	4.95
MW-39-70	20-May-04	8,438	27.60	7.16	230	---
	18-Jun-04	8,580	27.80	7.40	29	3.33
	21-Oct-04	8,390	26.28	7.46	98	6.41
	18-Nov-04	9,450	26.81	7.51	45	6.54
	15-Dec-04	---	25.70	7.56	11	0.43
	12-Jan-05	8,000	24.90	7.39	53	0.88
	08-Feb-05	11,400	26.00	7.99	89	5.53
	09-Mar-05	13,800	26.50	7.74	71	5.25
MW-39-80	20-May-04	11,480	27.24	6.98	332	6.68
	17-Jun-04	11,900	27.90	7.46	-12	4.80
	20-Oct-04	9,800	26.61	7.29	70	7.05
	18-Nov-04	13,600	26.35	7.43	90	6.50
	15-Dec-04	---	25.30	7.43	66	1.59
	14-Jan-05	11,600	25.70	7.80	163	0.50
	08-Feb-05	14,900	25.68	7.98	99	5.80
	09-Mar-05	16,800	26.51	7.75	82	5.01
MW-39-100	21-May-04	16,200	27.60	7.92	-2	4.60
	15-Jun-04	17,300	28.50	7.68	164	5.04
	23-Sep-04	14,200	27.87	8.49	15	2.14
	21-Oct-04	14,500	26.06	7.67	32	2.34
	17-Nov-04	14,200	26.29	7.59	57	6.43
	15-Dec-04	---	26.32	8.11	24	6.19
	12-Jan-05	20,200	25.86	7.56	63	6.24
	27-Jan-05	20,200	26.60	7.61	45	2.14
	09-Feb-05	22,000	26.80	7.78	33	2.19
	10-Mar-05	24,500	27.57	7.95	28	5.05
MW-40D	10-May-04	17,000	33.80	7.70	-105	2.30
	14-Jun-04	17,100	32.98	7.38	-42	0.18
	22-Sep-04	13,600	31.61	8.02	-112	0.44
	16-Dec-04	16,800	28.81	7.56	-80	5.63

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-40D	10-Mar-05	17,200	30.93	7.59	-19	1.49
MW-40S	11-May-04	2,320	30.90	8.03	64	7.40
	14-Jun-04	2,090	31.36	7.75	51	6.44
	22-Sep-04	2,050	30.50	8.09	79	8.27
	16-Dec-04	1,780	28.53	7.44	70	7.93
	10-Mar-05	2,080	29.22	7.57	134	7.33
MW-41D	18-Nov-04	21,600	28.28	8.29	-181	3.48
	15-Dec-04	---	29.81	7.80	-222	5.05
	11-Mar-05	22,700	29.61	7.90	-244	0.62
MW-41M	18-Nov-04	20,800	25.96	8.21	-115	4.04
	15-Dec-04	18,800	29.15	7.68	-102	5.30
	11-Mar-05	16,100	29.95	7.74	-66	0.82
MW-41S	18-Nov-04	1,690	26.66	8.43	-99	4.43
	16-Dec-04	4,260	28.67	7.91	-19	6.35
	10-Mar-05	5,080	29.46	7.83	87	2.46
Park Moabi	16-Mar-04	---	24.15	7.03	204	8.29
	09-Jun-04	2,150	33.32	7.57	-81	4.76
	04-Aug-04	1,480	35.76	7.66	47	6.71
	22-Sep-04	1,340	28.60	7.09	118	7.50
	15-Dec-04	1,570	19.84	8.04	-235	7.18
	11-Mar-05	1,330	26.17	7.72	-59	3.65
Surface Water Stations						
CON	15-Mar-04	1,090	16.13	7.55	128	10.04
	14-Apr-04	695	19.00	8.19	107	10.90
	12-May-04	1,110	18.07	8.04	---	12.75
	10-Jun-04	776	20.10	8.40	---	10.36
	15-Jul-04	1,110	22.70	8.21	112	10.72
	10-Aug-04	957	23.73	8.41	172	11.62
	23-Sep-04	1,040	21.10	7.93	190	8.44
	19-Oct-04	922	18.49	8.23	219	9.74
	15-Nov-04	1,020	16.90	8.09	39	5.91
	13-Dec-04	1,170	15.42	7.55	143	11.50
	10-Jan-05	1,060	13.14	7.83	171	11.30
	08-Feb-05	1,100	12.97	7.90	210	14.11
	24-Feb-05	1,200	14.19	8.02	188	9.62
	01-Mar-05	1,270	16.86	8.14	198	10.55
	07-Mar-05	1,210	17.02	8.56	94	11.85
I-3	15-Mar-04	1,090	14.85	6.91	226	11.05
	13-Apr-04	708	17.90	7.59	165	13.60
	13-May-04	1,040	19.50	7.98	---	11.48
	15-Jul-04	1,080	21.10	7.54	110	10.41
	10-Aug-04	1,370	23.46	6.63	126	13.08

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
I-3	23-Sep-04	1,060	18.94	7.92	195	9.40
	19-Oct-04	921	18.98	9.00	183	10.15
	15-Nov-04	980	17.80	8.45	44	5.87
	13-Dec-04	1,160	15.35	8.08	131	11.10
	10-Jan-05	1,060	13.81	8.06	181	12.03
	08-Feb-05	1,090	14.24	8.30	178	14.30
	08-Mar-05	1,170	15.11	---	191	8.98
NR-1	16-Mar-04	---	16.19	8.03	213	9.98
	13-Apr-04	719	19.00	8.34	121	13.00
	13-May-04	1,150	17.65	8.05	---	10.60
	11-Jun-04	683	18.70	8.24	95	10.29
	15-Jul-04	1,130	22.20	8.22	113	9.72
	10-Aug-04	952	23.09	8.38	152	10.83
	23-Sep-04	1,050	21.49	8.05	188	8.63
	19-Oct-04	918	18.85	8.52	210	9.89
	15-Nov-04	1,000	17.00	8.30	43	5.78
	13-Dec-04	1,220	15.06	6.25	174	11.28
	10-Jan-05	1,200	13.45	7.31	191	12.18
	08-Feb-05	1,090	13.14	8.08	199	12.91
	08-Mar-05	1,170	16.23	---	156	7.90
NR-2	16-Mar-04	---	15.83	8.21	203	9.94
	13-Apr-04	712	18.90	8.30	135	12.30
	13-May-04	1,120	17.63	8.04	---	10.52
	11-Jun-04	670	18.50	8.18	158	9.75
	15-Jul-04	1,100	21.40	8.11	122	10.60
	10-Aug-04	945	23.25	8.35	150	11.21
	23-Sep-04	1,030	22.36	8.11	185	8.83
	19-Oct-04	911	18.43	8.26	216	9.69
	15-Nov-04	965	16.90	8.14	56	6.00
	13-Dec-04	1,160	15.85	7.16	155	11.23
	10-Jan-05	1,090	13.01	7.53	178	11.68
	08-Feb-05	1,080	12.69	8.11	226	13.64
	08-Mar-05	1,160	15.89	---	144	10.74
NR-3	16-Mar-04	---	15.82	8.32	199	9.81
	13-Apr-04	712	18.70	8.28	141	12.20
	13-May-04	1,010	17.65	8.08	---	9.97
	11-Jun-04	672	18.70	8.50	135	9.92
	15-Jul-04	1,090	21.70	8.09	128	10.44
	10-Aug-04	953	23.28	8.40	130	11.30
	23-Sep-04	1,050	22.05	7.47	189	8.44
	19-Oct-04	904	18.41	8.17	218	9.10
	15-Nov-04	960	16.90	8.38	46	6.06
	13-Dec-04	1,150	15.92	7.44	142	11.33
	10-Jan-05	1,070	12.96	7.71	176	11.20

Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
NR-3	08-Feb-05	1,080	12.71	8.26	224	13.93
	08-Mar-05	1,160	15.70	---	152	9.26
R-22	15-Mar-04	1,090	15.68	7.73	161	9.89
	14-Apr-04	681	17.50	8.03	134	10.60
	12-May-04	1,100	17.48	8.07	---	12.77
	10-Jun-04	734	18.10	8.55	---	9.24
	15-Jul-04	1,100	22.80	8.25	121	10.15
	10-Aug-04	947	23.02	7.73	115	12.04
	23-Sep-04	1,460	19.07	7.27	193	9.56
	19-Oct-04	1,220	18.86	8.01	249	9.74
	15-Nov-04	1,150	17.11	7.28	180	12.48
	13-Dec-04	1,150	15.39	8.05	128	11.22
	10-Jan-05	1,060	14.09	8.15	192	11.65
	08-Feb-05	1,170	13.21	6.35	165	13.41
	24-Feb-05	986	13.97	7.10	170	10.13
	01-Mar-05	1,260	19.36	6.80	161	16.92
	07-Mar-05	1,070	16.99	8.14	139	12.12
R-27	03-Mar-04	---	14.09	8.27	129	4.40
	15-Mar-04	1,070	17.30	7.76	159	9.71
	14-Apr-04	699	19.60	8.14	139	10.20
	12-May-04	1,100	19.95	7.93	---	12.36
	10-Jun-04	752	19.10	8.61	---	9.08
	15-Jul-04	1,090	23.30	8.25	119	10.32
	10-Aug-04	955	23.15	7.90	127	11.78
	22-Sep-04	1,210	22.30	8.79	-117	10.31
	19-Oct-04	922	19.56	7.66	248	9.63
	15-Nov-04	1,040	16.99	7.90	180	12.93
	13-Dec-04	1,150	15.19	8.00	117	11.50
	10-Jan-05	1,060	14.16	8.26	200	11.12
	08-Feb-05	1,080	12.65	7.02	181	13.50
	24-Feb-05	1,190	14.16	7.82	179	9.62
	01-Mar-05	1,260	18.30	7.77	174	10.71
	07-Mar-05	1,060	18.13	8.18	102	11.43
R-28	03-Mar-04	---	13.61	8.24	131	3.60
	15-Mar-04	1,100	16.22	7.80	130	9.95
	14-Apr-04	680	18.10	8.12	133	10.70
	12-May-04	1,110	18.90	8.04	---	11.97
	10-Jun-04	762	18.60	8.53	---	9.27
	15-Jul-04	1,090	22.40	8.22	124	10.08
	10-Aug-04	919	23.06	7.96	146	11.94
	22-Sep-04	925	23.25	8.46	-128	9.19
	19-Oct-04	908	19.38	7.80	234	9.41
	15-Nov-04	1,190	17.18	8.24	158	12.17
	13-Dec-04	1,160	15.75	7.86	108	11.32

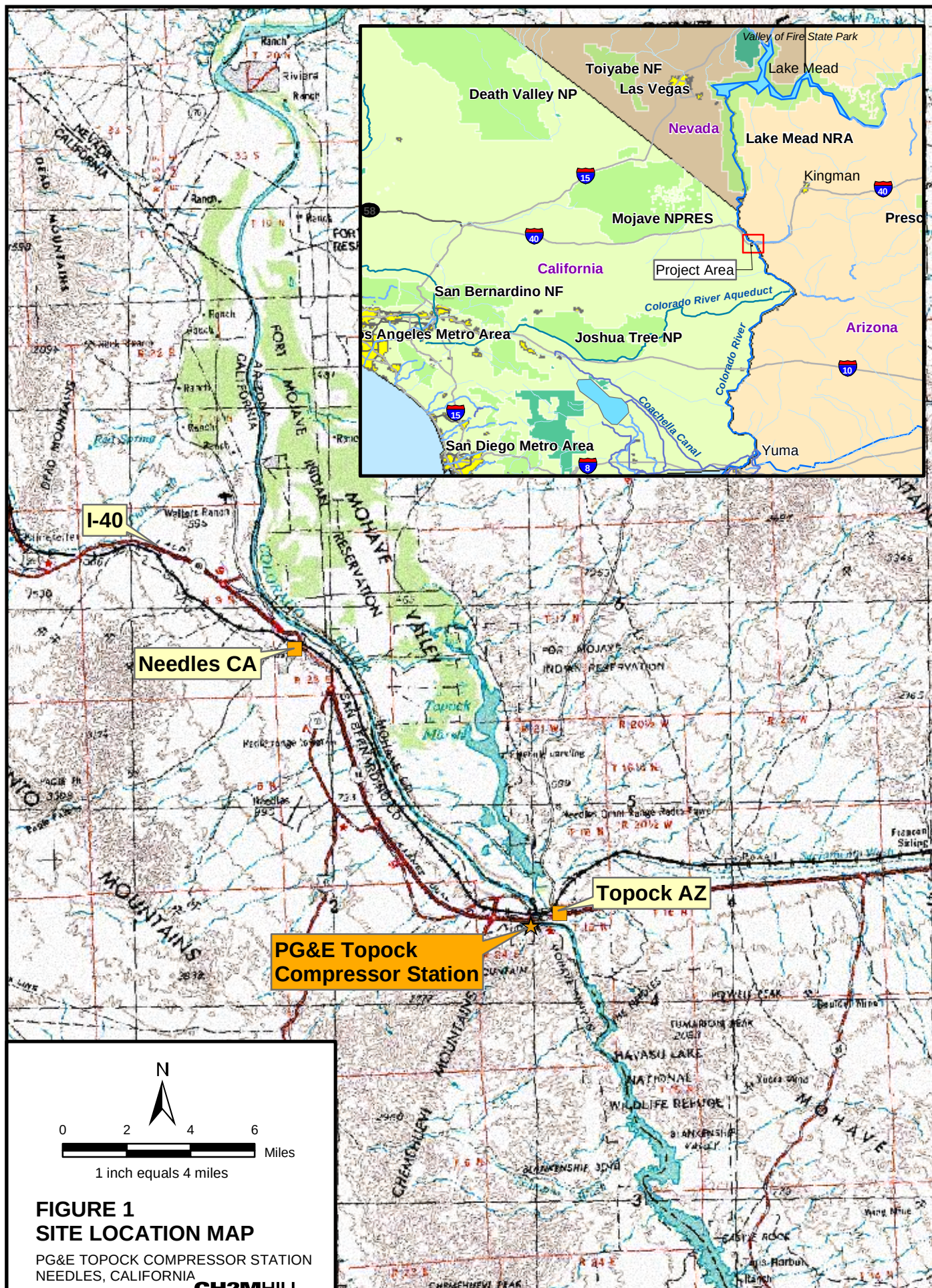
Table 7
Field Water Quality Measurements
March 2004 through March 2005
PG&E Topock Groundwater Monitoring Program

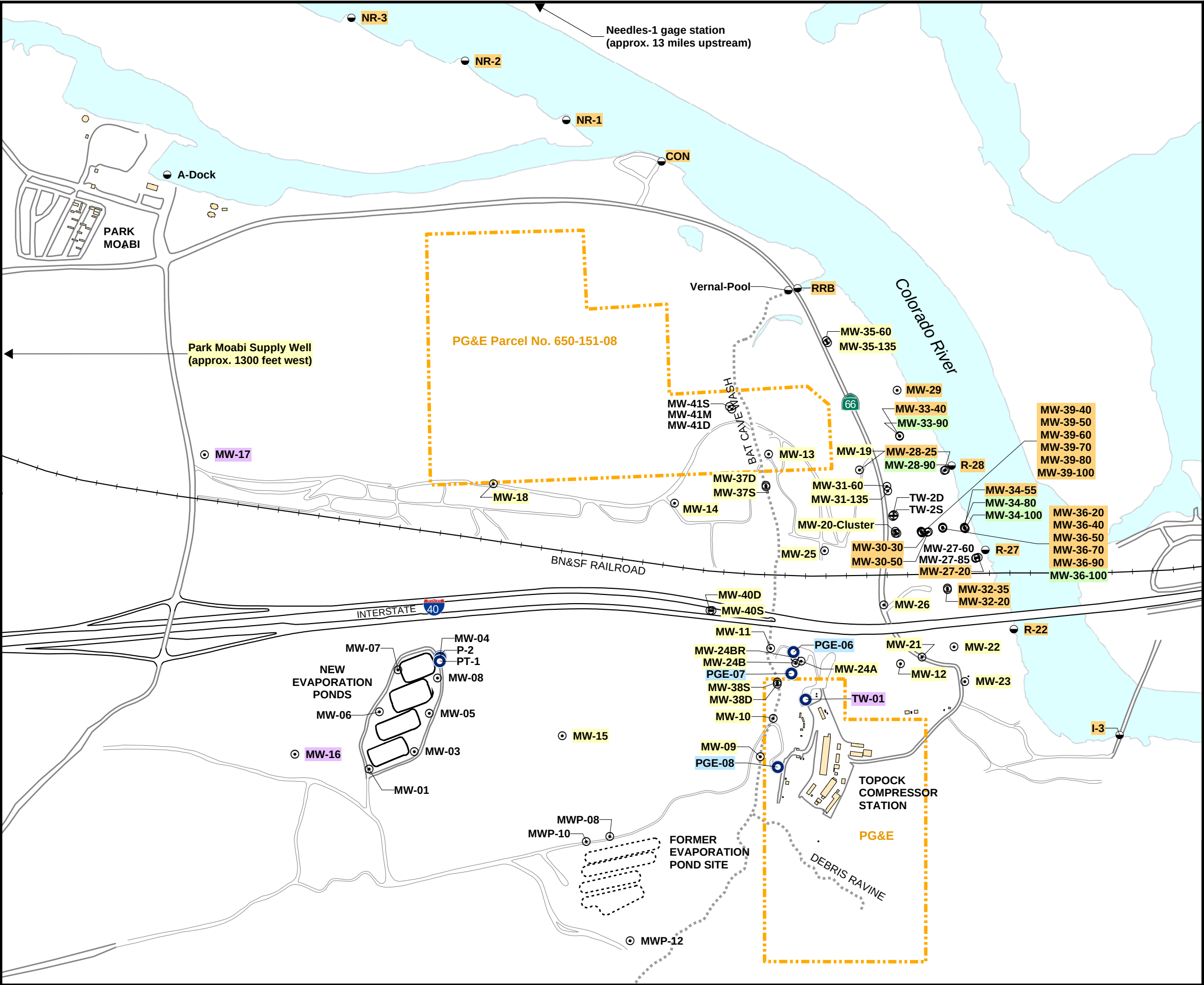
Location	Sampling Date	Electrical Conductivity (uS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
R-28	10-Jan-05	1,060	14.50	8.22	194	11.43
	08-Feb-05	1,060	13.05	7.59	192	13.04
	08-Mar-05	1,180	16.75	---	168	9.40
RRB	15-Mar-04	1,080	20.30	7.50	174	11.09
	13-Apr-04	831	24.90	8.14	118	12.40
	13-May-04	1,030	20.47	8.12	---	8.71
	15-Jul-04	1,090	25.70	8.21	99	9.88
	10-Aug-04	945	25.77	8.30	186	12.52
	23-Sep-04	1,160	19.28	7.92	196	9.47
	19-Oct-04	1,330	17.21	8.15	228	9.45
	15-Nov-04	1,400	14.70	8.54	8	5.61
	13-Dec-04	1,200	16.44	7.68	-48	10.88
	08-Feb-05	1,400	12.67	8.01	197	13.76
TW-1	17-Mar-04	---	32.59	7.73	79	5.68
	21-Dec-04	---	27.90	7.31	126	4.05
TW-2D	29-Jul-04	3,740	19.27	7.16	195	---
	16-Dec-04	9,200	25.38	8.39	143	7.10
TW-2S	29-Jul-04	11,400	19.26	7.26	192	8.29
	16-Dec-04	3,540	26.03	8.23	155	7.96
	11-Mar-05	---	29.30	7.65	90	4.83

NOTES:

1. $\mu\text{S/cm}$ = microSiemens per centimeter
2. ORP = oxidation reduction potential, results rounded off to whole point.
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 and/or Orion pH/ORP meter.
6. (---) = data not collected, not available, or rejected.

Figures



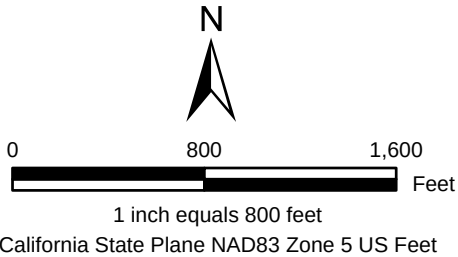


- Legend**
- Groundwater Monitoring Well
 - Test Well or Supply Well (Inactive)
 - Surface Water Monitoring Location
 - Extraction Well
 - PG&E Property Boundary

Sampling Frequency for Groundwater and Surface Water Monitoring Program (GMP) - March 2005

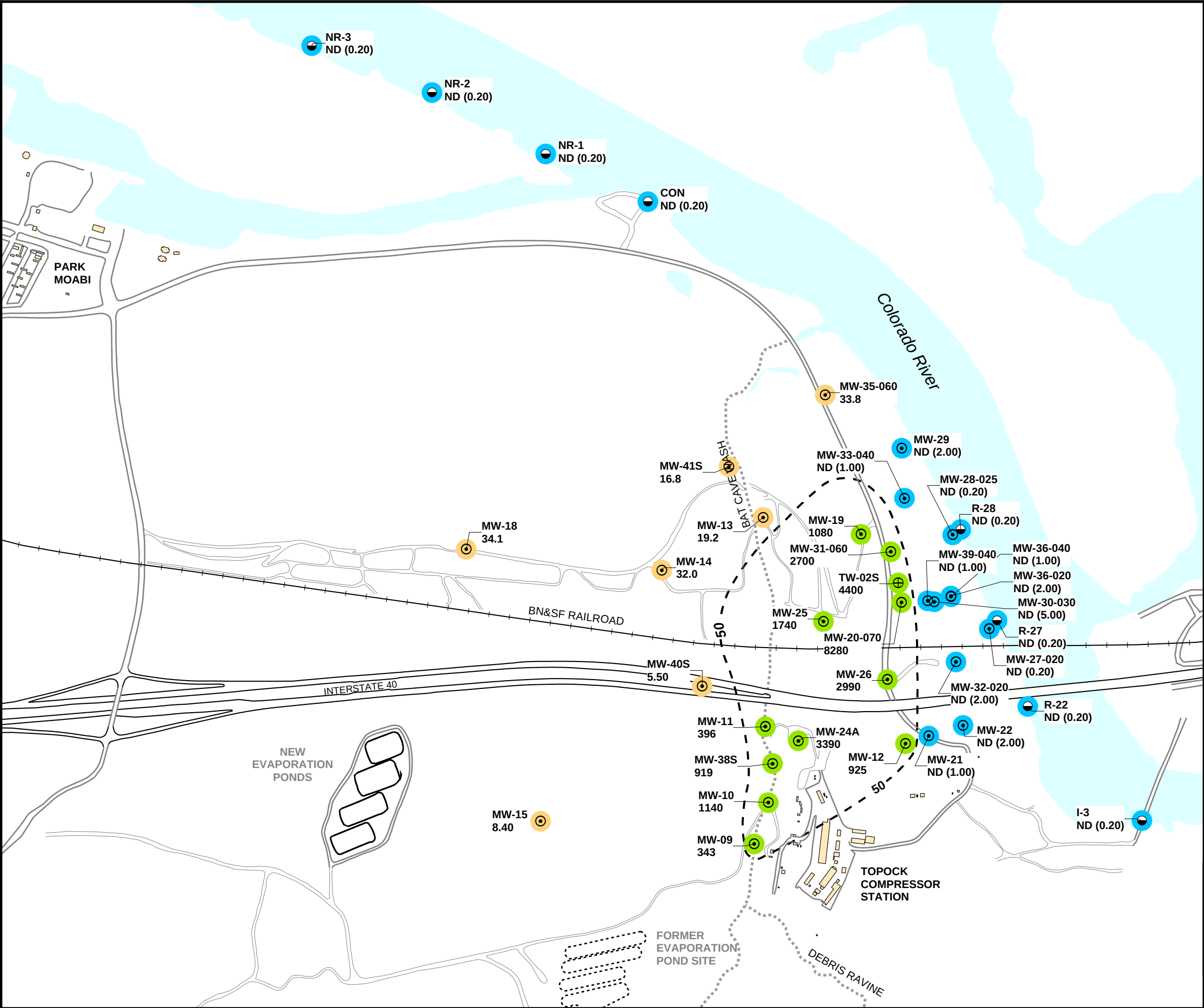
- PGE-06 Every 2 Years Sampling
- TW-01 Annual Sampling
- MW-18 Quarterly Sampling
- MW-29 Monthly Sampling
- MW-34-80 Bi-Weekly Sampling

Note: Additional Contingency Plan Sampling involving 4 wells and 3 surface water stations were initiated on February 23, 2005 as per DTSC.



**Figure 2
Monitoring Locations and
Sampling Frequency for GMP
March 2005**

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



- Legend**
- Groundwater Monitoring Well
 - Groundwater Test or Supply Well
 - Surface Water Monitoring Location
 - Extraction Well

1.47 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)

Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Upper** zone of Alluvial Aquifer, March 2005 monitoring event. See Table 2 for complete results

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

Cr(VI) Concentrations in Water Samples

- Not detected at analytical reporting limit
 - Concentration between reporting limit and 50 µg/L
 - Concentration greater than 50 µg/L
- Approximate outline of Cr(VI) in groundwater >= 50 µg/L (California drinking water standard for Total Chromium)

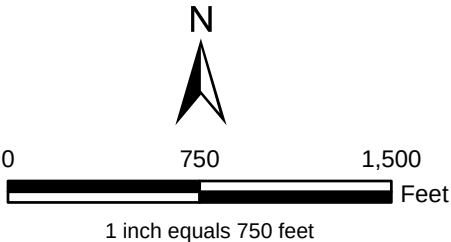
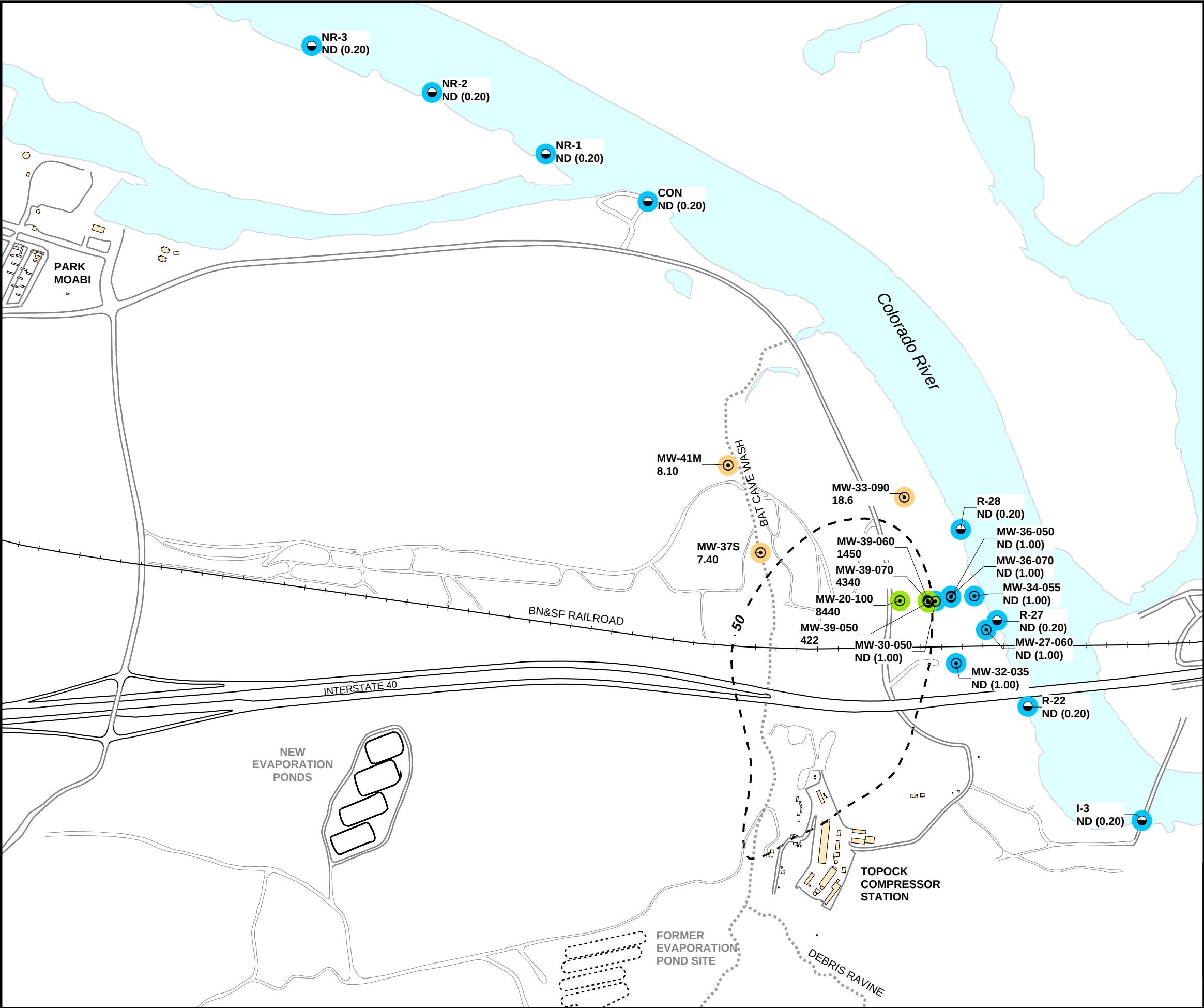


Figure 3a
Hexavalent Chromium Sampling Results
Upper Zone of Alluvial Aquifer
First Quarter 2005 Monitoring Event

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



Legend

- Groundwater Monitoring Well
- Groundwater Test or Supply Well
- Surface Water Monitoring Well
- Extraction Well

6.28 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)
Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Middle** zone of Alluvial Aquifer, March 2005 monitoring event. See Table 2 for complete results.

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

- Not detected at analytical reporting limit
- Concentration between reporting limit and 50 µg/L
- Concentration greater than 50 µg/L

Approximate outline of Cr(VI) in groundwater >= 50 µg/L (California drinking water standard for Total Chromium)

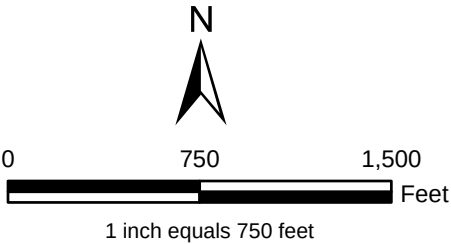
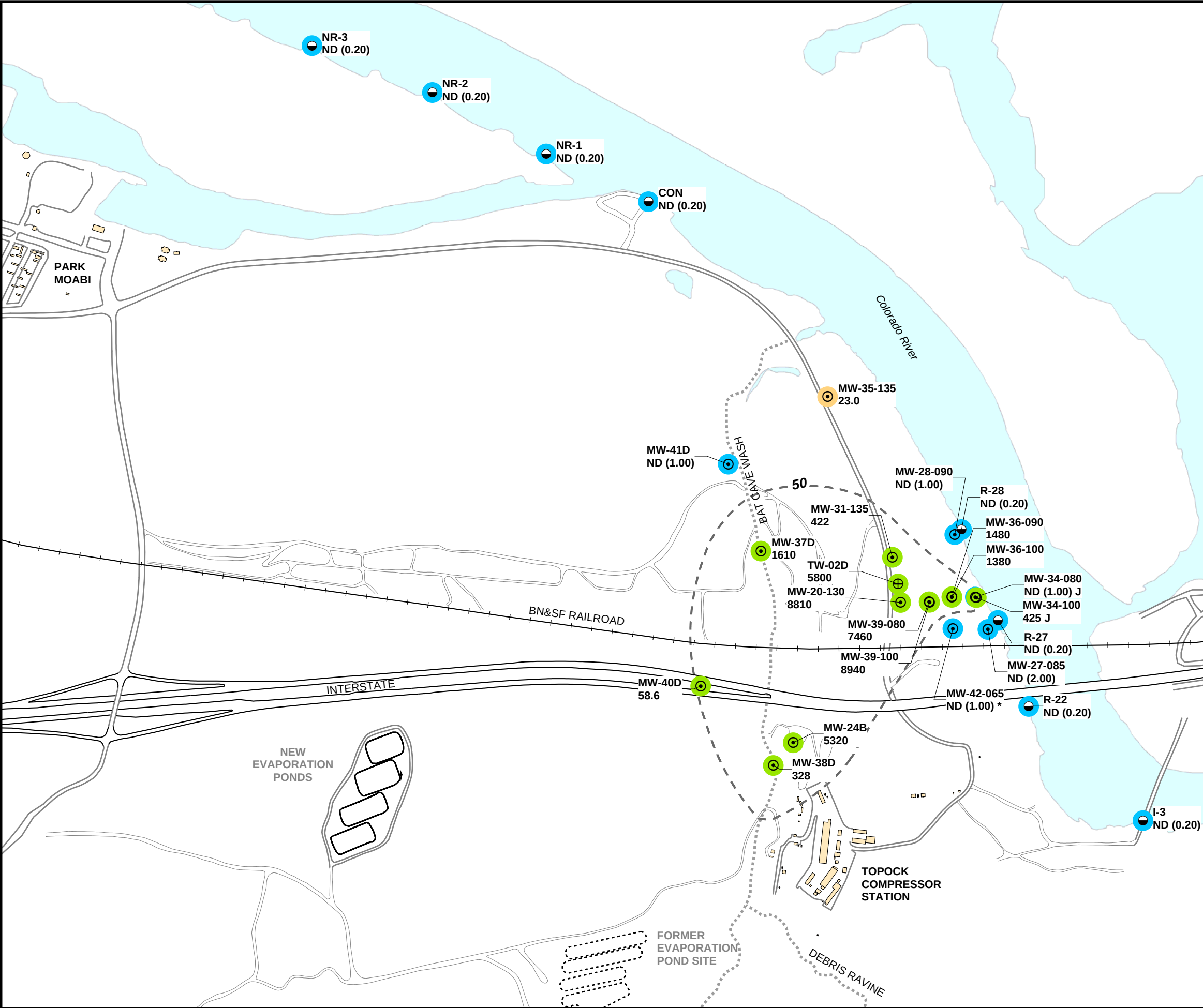


Figure 3b
Hexavalent Chromium Sampling Results
Middle Zone of Alluvial Aquifer
First Quarter 2005 Monitoring Event
GROUNDWATER MONITORING PROGRAM
PG&E TOPEAK COMPRESSOR STATION
NEEDLES, CALIFORNIA



Legend

- Groundwater Monitoring Well
- Groundwater Test or Supply Well
- Surface Water Monitoring Location
- Extraction Well

6.28 Concentration of hexavalent chromium [Cr(VI)] in micrograms per liter (µg/L)

Results shown are maximum concentrations detected in primary and duplicate samples from wells completed in **Lower** zone of Alluvial Aquifer, March 2005 monitoring event. See Table 2 for complete results.

ND (0.2) Cr(VI) not detected, at listed reporting limit

NS Not sampled

Cr(VI) Concentrations in Water Samples

- Not detected at analytical reporting limit
 - Concentration between reporting limit and 50 µg/L
 - Concentration greater than 50 µg/L
- Approximate outline of Cr(VI) in groundwater >= 50 µg/L (California drinking water standard for Total Chromium)

* MW-42-065 Sampled for 2nd IM sampling event Msrch 16, 2005

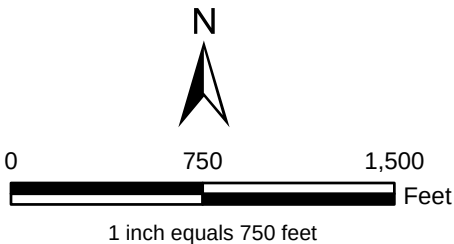


Figure 3c
Hexavalent Chromium Sampling Results
Lower Zone of Alluvial Aquifer
First Quarter 2005 Monitoring Event
GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Appendix A
Field Data Sheets and Chains of Custody

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-08-05Field Team 1Field Conditions clear/sunnyPage of Well/Sample Number MW-09-056QC Sample ID NAQC Sample Time Purge Start Time 1443Purge Method Ded. PumpFlow Cell Y / NMin. Purge Volume (gal)/(L) 17.10 Purge Rate (gpm)/(mLpm) 15gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1447	9	7.43	3.63	20.2	9.41	28.34	0.18	2.30	151	
	1449	12	7.42	3.54	14.9	9.29	29.25	0.18	2.26	154	
	1452	15	7.42	3.51	6.91	9.16	29.43	0.18	2.25	158	
	1454	18	7.43	3.50	2.92	8.81	29.51	0.18	2.24	161	
	1457	21	7.44	3.49	1.72	8.65	29.51	0.18	2.23	164	
83.05	1505										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	PH ON SAMPLE = 1.5
Did Parameters Stabilize prior to sampling?			Y	Y	N	N	NA	Y	Y	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1500 Sample Location: pump tubing well port Xspigot bailer other Comments: HORIBA TOT-SAFETY #056931
HACH-2005-01CInitial Depth to Water (ft BTOC): 82.04Measure Point: Well TOCSteel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

WD (Well Depth - from table) ft btc (90.68)

SWH (Standing Water Height) = WD-Initial Depth 8.64

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 5.70Three Casing Volumes = 17.10

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
Comments: <u>NO TRANSDUCER</u>					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-08-05Field Team 1Field Conditions clear/sunnyPage of Well/Sample Number MW-10-056QC Sample ID MW-90-056QC Sample Time 1430Purge Start Time 1356Purge Method Ded. PumpFlow Cell Y NMin. Purge Volume (gal)/(L) 42.15 Purge Rate (gpm)/(mLpm) 10.9pm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1358	10	7.51	3.99	6.34	7.00	29.64	0.20	2.53	121	1" nipple and Valve
	1359	20	7.40	3.93	2.68	3.86	29.29	0.20	2.51	124	Need to be changed
	1400	30	7.39	3.87	4.09	3.50	29.23	0.20	2.46	123	
	1401	40	7.38	3.82	4.61	3.31	29.15	0.19	2.45	123	
	1402	50	7.36	3.83	3.70	3.17	29.12	0.20	2.46	123	
	1404	60	7.35	3.85	2.13	3.09	29.05	0.20	2.46	124	
	1405	70	7.35	3.85	2.95	2.90	29.10	0.20	2.46	124	
					1.22	2.92					
76.30	1415										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	PH ON TITLE 22 = 1.5 ↓ MERCURY = 1.5 MW-10 AND MW-90
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1406 Sample Location: pump tubing well port X spigot bailer other Comments: HORIBA TOT-SAFETY #056931
HACH #PGE-2005-010Initial Depth to Water (ft BTOC): 76.35Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE-2005-02

WD (Well Depth - from table) ft btc (97.64)

SWH (Standing Water Height) = WD-Initial Depth 21.29

D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1" = 0.04 (4 in)

One Casing Volume = D*SWH 14.05Three Casing Volumes = 42.15

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
Comments: TRANSDUCER IN WELL BUT CAN NOT BE REMOVED				

Comments: TRANSDUCER IN WELL BUT CAN NOT BE REMOVED

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 1Field Conditions clear / HotSampling Event 2005-056-Q1Date 03-08-05Page of Well/Sample Number MW-11-056QC Sample ID NAQC Sample Time Purge Start Time 1304Purge Method Ded. PumpFlow Cell Y / NMin. Purge Volume (gal)/(L) 64.59 Purge Rate (gpm)/(mLpm) 10 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1306	10	7.42	2.76	61.6	8.01	29.19	0.14	1.79	116	
	1307	20	7.35	2.77	88.4	7.48	29.26	0.14	1.77	115	
	1308	30	7.33	2.73	30.0	7.51	29.30	0.13	1.75	121	
	1310	40	7.32	2.70	17.1	7.14	29.31	0.13	1.72	124	
	1311	50	7.31	2.69	18.9	7.08	29.33	0.13	1.71	126	
	1312	60	7.31	2.69	16.8	7.12	29.34	0.13	1.72	129	
	1313	70	7.31	2.67	19.8	7.03	29.35	0.13	1.72	131	
	1315	80	7.31	2.67	23.0	7.02	29.36	0.13	1.70	133	
68.53	1325										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	PH ON = Title 22 = 1.5 ↓ = mercury = 1.5
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1321 Sample Location: pump tubing well port X spigot bailer other Comments: HORIBA TOT-SAFETY #056931
HACH PGE-2005-01CInitial Depth to Water (ft BTOC): 68.50

WD (Well Depth - from table) ft b/c (90.69)

SWH (Standing Water Height) = WD-Initial Depth 22.19

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 21.53Three Casing Volumes = 64.59Color: clear, grey, yellow, brown, black, cloudy, greenMeasure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer	
Time	Initial DTW	Approx. 5 min After Reinstallation	Time of Removal
		Time	Final DTW
—	—	—	—

Comments: NO TRANSDUCER

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG & E TOPOCKSampling Event Q1 2005

Job Number _____

Date 3-10-05

Field Team _____

Field Conditions Wrm, Clear, Sunny

Page _____ of _____

Well/Sample Number _____

QC Sample ID _____

QC Sample Time _____

Purge Start Time 14.56MW-12-056 NR 3/10/05Purge Method: 3 Casing VolumeDed. Pump NoneInstalled Redi-FlowFlow Cell: (Y) NMin. Purge Volume (gal)/(L) 40Purge Rate (gpm)/(mlpm) 3.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv	Comments (See descriptors below)
30.38	14.59	3.9	8.64	6.60	90.9	7.15	28.57	0.4	4.2	35	odorless. clear
30.43	14.50	18	8.88	7.39	41.1	7.18	28.56	0.4	4.7	31	slightly cloudy
30.43	15.05	27	8.91	8.12	25.2	7.05	28.56	0.4	5.2	32	
30.43	15.08	36	8.91	8.44	20.7	7.01	28.56	0.5	5.3	33	
30.43	15.11	43	8.91	8.48	13.6	7.04	28.51	0.5	5.4	34	
30.43	15.14	54	8.90	8.39	9.4	7.04	28.43	0.5	5.3	34 (PK 3/15/05)	
Parameter Stabilization Criteria:			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when > 10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes		yes	NA	—	—	yes	
Are measurements consistent with previous?							NA				

Sample Time 15.14 Sample Location: pump tubing ☒ well port _____ split _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTWC): 30.09WD (Well Depth - from table) ft btoc: 50.31SWH (Standing Water Height) = WD - Initial Depth 20.22D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1" = 0.041 6.60One Casing Volume = D * SWH 13.34Three Casing Volumes = 40Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

TRANSDUCER: Enter data even when transducer is not removed

Before Removal		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
14.55	30.09	15.22	30.18	
Comments: _____				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

QC Sample Time _____

Purge Method _____ Ded. Pump _____

Purge Rate (gpm)/(mLpm) _____

03-7-05
Pump did not work

Comments: _____ HGR18A TCT-~~SAFETY~~ #2056931
HACH PGE 2005-01C

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGF-2005-02

Comments:

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE TOPOCK GMPSampling Event 2005-056-01Job Number 316363-GM-02Date 03-11-05Field Team 1Field Conditions clear / sunnyPage of Well/Sample Number MW-13-056QC Sample ID QC Sample Time Purge Start Time 1114

Purge Method: 3 Casing Volume

Ded. Pump NoneFlow Cell: Y NMin. Purge Volume (gal)/(L) 33.87Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv	Comments (See descriptors below)
35.68	1117	6	7.39	2.00	32.7	6.24	29.02	0.10	1.28	47	
35.68	1120	12	7.39	1.98	15.8	5.56	29.04	0.09	1.27	48	
35.68	1123	18	7.43	1.98	9.44	5.56	29.18	0.09	1.27	54	
35.68	1126	24	7.46	1.97	4.05	5.60	29.07	0.09	1.26	61	
35.68	1129	30	7.46	1.95	3.24	5.59	29.18	0.09	1.25	64	
35.68	1132	36	7.47	1.95	2.69	5.58	29.15	0.09	1.25	66	
35.68	1135	42	7.47	1.95	2.14	5.57	29.17	0.09	1.25	69	
35.40	1143										
Parameter Stabilization Criteria:			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when > 10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	X	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

Sample Time 1137

Sample Location:

pump tubing X well port spigot bailer other

Comments:

ROOTS IN WELL - Replaced 2" Grundfos on 3-10-05.HORIBA TOT-SAFETY #056931HACH PGE#2005-01CInitial Depth to Water (ft BTWC): 35.38Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE # 2005-02WD (Well Depth - from table) ft btoc: 52.49TRANSDUCER: Enter data even when transducer is not removed XSWH (Standing Water Height) = WD-Initial Depth 17.11D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 6" = 0.041 4"One Casing Volume = D*SWH 11.29Three Casing Volumes = 33.87

Before Removal		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Comments: <u>NO TRANSDUCER</u>				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 1Field Conditions Clear - SunnySampling Event 2005-056-Q1Date 03-09-05Page of Well/Sample Number MW-14-056QC Sample ID NAQC Sample Time Purge Start Time 1243Purge Method Ded. PumpFlow Cell Y / NMin. Purge Volume (gal)/(L) 35.42 Purge Rate (gpm)/(mLpm) 7.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
<u>—</u>	<u>1246</u>	<u>15</u>	<u>7.68</u>	<u>1.64</u>	<u>167</u>	<u>7.31</u>	<u>28.38</u>	<u>0.08</u>	<u>1.05</u>	<u>147</u>	
	<u>1248</u>	<u>30</u>	<u>7.67</u>	<u>1.64</u>	<u>16.0</u>	<u>7.34</u>	<u>28.91</u>	<u>0.08</u>	<u>1.05</u>	<u>150</u>	
	<u>1251</u>	<u>45</u>	<u>7.68</u>	<u>1.64</u>	<u>7.37</u>	<u>7.10</u>	<u>28.96</u>	<u>0.08</u>	<u>1.05</u>	<u>153</u>	
	<u>1253</u>	<u>60</u>	<u>7.67</u>	<u>1.64</u>	<u>6.19</u>	<u>6.91</u>	<u>28.94</u>	<u>0.08</u>	<u>1.05</u>	<u>155</u>	
	<u>1255</u>	<u>75</u>	<u>7.67</u>	<u>1.64</u>	<u>4.04</u>	<u>6.56</u>	<u>28.94</u>	<u>0.08</u>	<u>1.05</u>	<u>157</u>	
	<u>1257</u>	<u>90</u>	<u>7.68</u>	<u>1.64</u>	<u>3.10</u>	<u>6.57</u>	<u>28.93</u>	<u>0.08</u>	<u>1.05</u>	<u>159</u>	
	<u>1300</u>	<u>105</u>	<u>7.68</u>	<u>1.64</u>	<u>2.80</u>	<u>6.52</u>	<u>28.90</u>	<u>0.08</u>	<u>1.05</u>	<u>160</u>	
<u>117.32</u>	<u>1307</u>										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when > 10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	NA	<u>X</u>	<u>X</u>	<u>X</u>	
Are measurements consistent with previous?							NA				

Sample Time 1301 Sample Location: pump tubing well port Xspigot baller other Comments: 1300 Sample time on Filtered Samples.pH 9.0HORIZA TOT-SAFETY-056931HACH PGE # 2005-Q1CInitial Depth to Water (ft BTOC): 117.05Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

WD (Well Depth - from table) ft btc (134.94)

SWH (Standing Water Height) = WD-Initial Depth 17.89

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 11.80Three Casing Volumes = 35.42Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

If Transducer			
Initial DTW / Before Removal		Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
Comments: <u>NO TRANSDUCER</u>			

Project Name PGE Topock GMP

Sampling Event 2005-056-Q1

Job Number 316363.GM.02

Date 03-09-05

Field Team 1

Field Conditions clear/sunny

Page

of

Well/Sample Number MW-15-056

QC Sample ID NA

QC Sample Time

Purge Start Time 1023

Purge Method

Dep. Pump

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) 35.46 Purge Rate (gpm)/(mLpm) 8 gpm av.

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
+	1025	10	7.02	1.49	125	9.13	29.01	0.07	0.95	141	
	1026	20	7.23	1.48	168	7.96	29.31	0.07	0.95	135	
	1027	30	7.35	1.50	113	7.81	29.33	0.07	0.97	139	
	1029	40	7.44	1.51	53.8	8.04	29.43	0.07	0.97	137	
	1031	50	7.50	1.50	19.8	8.09	29.40	0.07	0.96	118	
	1033	60	7.53	1.49	15.2	8.06	29.45	0.07	0.96	87	
	1035	70	7.58	1.49	7.67	8.25	29.51	0.07	0.95	78	
	1036	80	7.62	1.47	9.50	8.42	29.51	0.07	0.95	94	
✓	1038	100	7.64	1.47	3.65	8.33	29.57	0.07	0.94	94	
188.30 AT 1044			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	Y	Y	N	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

Sample Time 1040 Sample Location:

pump tubing

well port

spigot

bailer

other

Comments:

HORIZA TOT-SAFETY #056931
HACH PGE-2005-01C

Initial Depth to Water (ft BTOC): 187.18

WD (Well Depth - from table) ft btc (205.09)

SWH (Standing Water Height) = WD-Initial Depth 17.91

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 11.82

Three Casing Volumes = 35.46

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After ReInstallation		Time of Removal _____	
Time	Initial DTW	Time	Final DTW	Time of ReInstallation . _____	
<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Comments: <u>NO TRANSDUCER</u>					

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-09-08Field Team 1Field Conditions clear/sunnyPage of Well/Sample Number MW-18-056QC Sample ID MW-92-056QC Sample Time 1210Purge Start Time 1121Purge Method Ded. PumpFlow Cell (Y) NMin. Purge Volume (gal)/(L) 41Purge Rate (gpm)/(mLpm) 5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
7	1023	10	7.64	1.35	6.96	11.15	28.47	0.06	.86	142	
	1025	20	7.66	1.32	8.55	8.86	28.51	0.06	.85	143	
	1026	30	7.63	1.31	1.65	8.68	28.56	0.06	.84	146	
	1027	40	7.62	1.31	2.68	8.48	28.58	0.06	.84	144	
	1029	50	7.61	1.30	9.4	8.33	28.65	0.06	.83	144	
	1031	60	7.61	1.30	15.3	8.40	28.60	0.06	.83	145	
	1033	70	7.60	1.30	13.7	8.39	28.57	0.06	.83	146	
	1035	90	7.60	1.29	8.36	8.31	28.60	0.06	.83	148	
U	1037	110	7.58	1.29	3.92	8.30	28.60	0.06	.83	150	
91.25 - 1143			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	Y	Y	X	
Are measurements consistent with previous?			Y	Y	NA	Y	NA	Y	X	Y	

Sample Time 1138 Sample Location: pump tubing well port X spigot bailer otherComments: Water is clear but TURB IS A LITTLE HIGH. HORIBA TOT- SAFETY # 056931HACH PGE-2005-01CInitial Depth to Water (ft BTOC): 91.03Measure Point: Well toe Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE-2005-02

WD (Well Depth - from table) ft btc (111.82)

SWH (Standing Water Height) = WD-Initial Depth 20.79

D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1" = 0.04 (4 in)

One Casing Volume = D*SWH 13.72Three Casing Volumes = 41.16

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	
—	—	—	—	—	

Comments: NO TRANSDUCER

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 1Field Conditions clear-SunnySampling Event 2005-056-Q1Date 03-07-05Page of Well/Sample Number MW-19-056QC Sample ID NAQC Sample Time Purge Start Time 1353Purge Method Well Volume Ded. PumpFlow Cell: Y NMin. Purge Volume (gal)/(L) 38.49 Purge Rate (gpm)/(mLpm) 7 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1356	21	7.54	2.27	28.1	7.87	28.41	0.11	1.45	73	
	1358	35	7.52	2.24	33.3	7.46	28.39	0.11	1.43	77	
	1400	49	7.51	2.21	28.9	7.04	28.48	0.11	1.42	83	
	1402	63	7.50	2.21	23.2	6.89	28.48	0.11	1.42	88	
	1404	77	7.49	2.21	20.6	6.69	28.45	0.11	1.41	93	
	1406	91	7.49	2.20	19.3	6.53	28.49	0.11	1.41	97	
	1408	105	7.49	2.20	19.1	6.67	28.43	0.11	1.41	100	
47.40	1412										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1410 Sample Location: pump tubing well port Xspigot baller other Comments: HORIBA TOT-SECURITY #056931
HACH PGE 2005-01CInitial Depth to Water (ft BTOC): 47.07

WD (Well Depth - from table) ft btc (66.51)

SWH (Standing Water Height) = WD-Initial Depth 19.44

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 12.83Three Casing Volumes = 38.49

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments: Transducer in well but can not be removed.

Comments: Transducer in well but can not be removed.

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

24421

Topock Sampling Log

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/10/05Field Team 2Field Conditions Warm WindyPage 1 of 1Well/Sample Number MW-20-070-056QC Sample ID NA

QC Sample Time _____

Purge Start Time 1043

Purge Method _____

Ded. Pump _____

Flow Cell: 01 N -1033004Min. Purge Volume (gal)/(L) 45Purge Rate (gpm)/(mLpm) 6 gal/min

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
64.20	1050	72 gal	7.06	5.12	1.62	9.26	29.5	.3	3.4	157	
64.50	1055	6.3 100 gal	7.36	6.02	1.59	9.08	29.4	.3	3.9	152	
64.42	1100	6.3 130 gal	7.38	6.99	0.84	8.89	29.4	.4	4.6	149	
64.42	1105	160 gal	7.43	7.69	0.84	8.76	29.4	.4	5.0	148	
64.42	1110	190 gal	7.44	8.08	0.79	8.59	29.4	.4	5.3	128	
64.40	1115	220 gal	7.45	8.62	0.59	8.57	29.4	.5	5.7	129	
64.41	1120	250 gal	7.45	9.26	0.54	8.59	29.4	.5	6.1	150	
64.42	1125	280 gal	7.46	12.8	0.79	8.77	29.4	.7	8.0	151	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	N	Y	Y	NA	-	-	N	
Are measurements consistent with previous?			Y	N	-	Y	NA	-	-	Y	

Sample Time 1130 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 72.90 48.44

WD (Well Depth - from table) ft btc (70.91)

SWH (Standing Water Height) = WD-Initial Depth 22.47

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 17.83Three Casing Volumes = 44.49Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: 10769 - Bench WL Meter

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
<u>10:35</u>	<u>48.44</u>	<u>11:50</u>	<u>64.42</u>	
Comments: <u>64.42</u>				

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/10/05Field Team 2

Field Conditions _____

Page 1 of 1Well/Sample Number MW-20-100-056QC Sample ID NA

QC Sample Time _____

Purge Start Time 1335

Purge Method _____ Ded. Pump _____

Flow Cell: Y / NMin. Purge Volume (gal)/(L) 103 Purge Rate (gpm)/(mLpm) 7

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
87.23	1340	35 gal	7.44	7.38	339	3.76	29.7	.4	4.7	109	
88.96	1350	105 gal	7.52	7.08	133	4.80	29.8	.4	4.6	102	
89.02	1400	175 gal	7.57	7.80	67.8	0.78	29.6	.4	5.0	147	Had to clear sand from sand water reservoir of probe
89.18	1405	210 gal	7.59	7.65	133	0.47	29.6	.4	5.0	132	
89.68	1410	245 gal	7.62	7.48	26.9	0.41	29.7	.4	4.8	122	
89.79	1415	280 gal	7.64	7.10	15.0	0.40	29.7	.4	4.6	110	
											Note: constant sand flow.
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	-	-	N	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

Sample Time 1430 Sample Location: _____pump tubing

well port _____

spigot _____

baller _____

other _____

Comments: _____

Initial Depth to Water (ft BTOC): 49.08

WD (Well Depth - from table) ft btc (101.08)

SWH (Standing Water Height) = WD-Initial Depth 52.00

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 34.32Three Casing Volumes = 102.96Color: clear, grey, yellow, brown, black, cloudy green sand

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
1330	49.08	1440	52.57		
Comments:		61.65			

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3-7-05Field Team Don CichyField Conditions Sunny / 80'sPage 1 of 1Well/Sample Number MW-20-130-056QC Sample ID MW-93-056QC Sample Time 1350Purge Start Time 1218Purge Method Well already Pumping Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 10 gpm Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
72.9	1220		6.13	12.9	0.30	0.6	29.13	0.74	8.0	151	D.O. not may be incorrect due to
			Let run 5 min								because of error
	1225		6.59	12.9		0.31	29.09	0.74	8.0	135	w/lt equipment
	1230		6.63	12.8		.02	29.0	0.74	8.0	126	discovered during calibration.
	1235										Separate pH meter used -
						Not working!					"IA-Scientific instrument"
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓			NA				
Are measurements consistent with previous?			NA				NA				

Sample Time 1330 Sample Location: pump tubing well port spigot bailer otherComments: Also sampled for MW-20-130-056FE at 1330Initial Depth to Water (ft BTOC): 72.90

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: 10769-Bench w/WD (Well Depth - from table) ft btc (132.66)SWH (Standing Water Height) = WD-Initial Depth 59.76

D (Volume as per diameter) 2"= 0.17, 4"= 0.68, 1"= 0.04 (4 in)

One Casing Volume = D*SWH 118.32 galThree Casing Volumes = Well already pumping for 3 weeks

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

DTW + parameters are as stable as they are going to get. Performed readings on 5 min intervals

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer <u>Hori6a-056929</u>	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
<u>1215</u>	<u>72.90</u>				
Comments:					

Min. Purge Volume (gal)/(L) 16.81 Purge Rate (gpm)/(mLpm) 1

Sample Time N/S Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____
Comments: _____ HORIBA TOT-SAFETY # 056931
HACH # PGE-2005-01C

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Three Casing Volumes = 16.81

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Comments: NO TRANSDUCER

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2Field Conditions Sunny, ClearSampling Event 2005-056-Q1Date 03/10/05Page 1 of 1Well/Sample Number MW-22-056QC Sample ID NA

QC Sample Time _____

Purge Start Time 1256Purge Method perchloric Ded. Pump NA

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 3.0 Purge Rate (gpm)/(mLpm) 0.8^m 0.25

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
9.02	1259		7.11	37.9		5.59	20.75	2.4	23	-165	Odorless, clear
9.40	1302	0.75	7.12	41.4		5.35	21.03	2.6	25	-160	lowered flow
9.59	1305	1.50	7.13	42.4		5.23	21.47	2.8	26	-157	
9.72	1308	2.25	7.13	44.4		4.93	21.81	2.9	27	-153	
9.83	1311	3.0	7.13	45.5		4.92	21.95	3.0	28	-152	Water cloudy
9.89	1314	3.75	7.13	46.3		4.74	22.00	3.0	28	-150	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes	no	yes	NA	—	—	yes	
Are measurements consistent with previous?			yes	no	—	no	NA			no yes	

Sample Time 1315 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 7.53

WD (Well Depth - from table) ft btc (13.03)

SWH (Standing Water Height) = WD-Initial Depth 5.5

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 0.935Three Casing Volumes = 2.8

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Final DTW	Time of Reinstallation
<u>1254</u>	<u>7.53</u>	<u>1322</u>	<u>8.30</u>	<u>NA</u>
Comments: _____				

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Min. Purge Volume (gal)/(L) 57.47 Purge Rate (gpm)/(mLpm) N/A

Sample Time Sample Location: pump tubing well port X splgot bailer other
 Comments: NYS HORIBA TOT-SAFETY #056931
HACH #PGE-2005-01C

WATER LEVEL METER SERIAL NUMBER: PGE - 2005 - 02

Three Casing Volumes = 57,47

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Sampling Event 2005-056-01
Date 03-08-05
Page of

QC Sample ID	N/A
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QC Sample Time _____

Purge Start Time 0951

Purge Method: 3 Casing Volume Red. Pump ~~Flow~~Flow Cell ☒ Y / ☐ N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm) _____

[illegible]

Sample Time 0953 Sample Location: pump tubing _____ well port X spigot _____ boiler _____ other _____

Comments: _____

HORIBA TOT-SAFETY #056931
HACH #PSF-2005-01C
SERIAL NUMBER: PGE-2005-02

Initial Depth to Water (ft BTOC): 55.30

WD (Well Depth - from table) ft btoc: 82.03

SWH (Standing Water Height) = WD-Initial Depth 26.73

D (Volume as per diameter) $2" = 0.17$, $4" = 0.66$, $1" = 0.041$ 4 1/2

One Casing Volume = $D \cdot SWH$ 17.64

Three Casing Volumes = 52.92

Color brown, yellow, black, cloudy green. 24

Color: ~~clear~~ grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2805-02
TRANSDUCER: Enter data even when transducer is not removed

TRANSDUCER: Enter data even when transducer is not removed

Before Removal		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____

Comments: NO TRANS DUCKER

Comments: NO TRANS RULER

Color: clear grey, yellow, brown, black, cloudy, green

Odor: none sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-07-05Field Team 1Field Conditions clear-sunnyPage of Well/Sample Number MW-24A-056QC Sample ID MW-94-056QC Sample Time 1140Purge Start Time 1144Purge Method Ded. PumpFlow Cell Y / NMin. Purge Volume (gal)/(L) 27Purge Rate (gpm)/(mLpm) 7 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1146	14	7.75	3.56	3.88	7.88	28.88	0.18	2.24	50	WATER SLIGHT GLEYED / SLIGHT SULFUR ODOR
	1148	28	7.68	3.50	2.26	4.63	28.65	0.18	2.24	53	
	1150	42	7.52	3.47	2.20	3.34	28.73	0.18	2.22	48	
	1152	56	7.52	3.46	1.18	3.11	28.73	0.17	2.22	48	
	1154	70	7.51	3.46	0.77	3.09	28.76	0.17	2.21	49	
113.09	1202										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	X	X	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1155 Sample Location: pump tubing well port X spigot bailer other Comments: HORIBA TOT-SAFETY #056981
HACH PSE 2005-01CInitial Depth to Water (ft BTOC): 113.08Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PSE-2005-02

WD (Well Depth - from table) ft btc (126.58)

SWH (Standing Water Height) = WD-Initial Depth 13.5

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 8.91Three Casing Volumes = 26.73Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

If Transducer				Time of Removal	
Initial DTW / Before Removal		Approx. 5 min After Reinstallation		Time of Reinstallation	
Time	Initial DTW	Time	Final DTW		

Comments: NO TRANSDUCER

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-07-05Field Team 1Field Conditions clear-SunnyPage of Well/Sample Number MW-24B-056QC Sample ID NAQC Sample Time Purge Start Time 1041Purge Method Ded. PumpFlow Cell (Y) NMin. Purge Volume (gal)/(L) 210Purge Rate (gpm)/(mLpm) 7 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1046	35	7.88	13.2	1.43	2.58	29.29	0.77	8.3	-72	WATER yellow / slight sulphur odor.
	1049	56	7.88	14.0	51.9	2.28	29.59	0.81	8.7	-58	WATER SLIGHT YELLOW / SLIGHT ODOR
	1052	77	7.88	14.2	48.8	2.09	29.56	0.83	8.8	-44	↓
	1055	98	7.88	14.2	27.1	1.95	29.66	0.83	8.8	-32	↓
	1058	119	7.88	14.2	21.7	1.87	29.71	0.82	8.8	-25	↓
	1102	140	7.87	14.2	12.2	1.80	29.75	0.83	8.8	-16	
	1106	175	7.87	14.3	8.30	1.79	29.77	0.83	8.8	-14	
	1110	203	7.87	14.3	6.60	1.77	29.68	0.83	8.9	-6	
	1113	224	7.87	14.3	NA	1.70	29.65	0.83	8.8	-2	
111.00 1120			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	—	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 11514 Sample Location:pump tubing well port Xspigot bailer other

Comments:

HORIBA TOT-SAFETY # 056931HACH PGE 2005-DICInitial Depth to Water (ft BTOC): ~~109.53~~ 110.83

WD (Well Depth - from table) ft btc (218.91)

SWH (Standing Water Height) = WD-Initial Depth 108.08

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH ~~76.29~~ 70.25Three Casing Volumes = 210.75Color: clear, grey, yellow, brown, black, cloudy, greenMeasure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE 2005-02

If Transducer				Time of Removal	
Initial DTW / Before Removal		Approx. 5 min After Reinstallation		Time of Reinstallation	
Time	Initial DTW	Time	Final DTW		

Comments: NO TRANSDUCEROdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 1 Field Conditions _____

Sampling Event 2005-056-Q1
 Date 03-07-05
 Page _____ of _____

Well/Sample Number MW-24BR-056

QC Sample ID NA

QC Sample Time _____

Purge Start Time 1004

Purge Method Ded. Pump

Flow Cell (Y) / N

Min. Purge Volume (gal)/(L) 646 Purge Rate (gpm)/(mLpm) 7.0 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1009	35	7.34	15.1	3.03	2.22	30.31	.88	9.4	-323	water - dark gray / sulfur odor.
	1013	73	7.64	15.2	1.01	1.53	30.47	.89	9.5	-345	↓ ↓ ↓
	1016	94	7.72	15.2	1.11	1.31	30.04	.71	9.5	-351	
	1018	WELL WAS DRY AT 94 GAL.									
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time _____ Sample Location: pump tubing _____ well port X spigot _____ baller _____ other _____

Comments: HORIBA Tot. Safety # 056931
HACH # PGE 2005-01C

Initial Depth to Water (ft BTOC): 109.54

WD (Well Depth - from table) ft b/c (441.21)

SWH (Standing Water Height) = WD-Initial Depth 331.67

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 215.58

Three Casing Volumes = 646.75

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005-02

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
Comments: <u>NO TRANSDUCER</u>					

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP

Sampling Event 2005-056-Q1

Job Number 316363.GM.02

Date 03-09-05

Field Team 1

Field Conditions clear

Page of

Well/Sample Number MW-25-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 1346

Purge Method

Ded. Pump

Flow Cell: Y N

Min. Purge Volume (gal)/(L) 34.61

Purge Rate (gpm)/(mLpm) 7-9 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1347	10	7.51	1.45	6.44	7.73	29.74	0.07	0.95	166	
	1349	20	7.47	1.57	9.92	7.10	29.52	0.07	1.01	169	D.O and Temp-
	1350	30	7.45	1.60	136	7.37	29.49	0.07	1.03	171	readings started
	1351	40	7.45	1.62	298	7.14	29.51	0.08	1.04	172	going higher than
	1353	50	7.45	1.63	83.2	7.07	29.55	0.08	1.04	174	normal after 75 gal.
	1355	60	7.44	1.62	44.4	7.01	29.51	0.08	1.03	175	Because pump started
	1357	75	7.43	1.59	21.5	7.52	29.53	0.07	1.02	178	pumping recharge water
	1400	90	7.42	1.56	14.5	8.88	29.58	0.07	1.02	180	and well was almost dry
	1402	105	7.42	1.57	11.2	8.63	29.54	0.07	1.00	181	But still pumping enough
92.64/1410			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	water = 7 gpm
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	Y	N	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	Y	N	NA	—	—	Y	

Sample Time 1403 Sample Location:

pump tubing ~~—~~well port ~~—~~

spigot

bailer

other

Comments:

HORIBA TOT-SECURITY-056931
HACH #2005-01C

Initial Depth to Water (ft BTOC): 89.52

WD (Well Depth - from table) ft b/c (107)

SWH (Standing Water Height) = WD-Initial Depth 17.48

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 11.53

Three Casing Volumes = 34.61

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-08-05Field Team 1Field Conditions clear / sunnyPage of Well/Sample Number MW-26-056QC Sample ID MW-95-056QC Sample Time 1227Purge Start Time 1120Purge Method Ded. PumpFlow Cell (Y) / NMin. Purge Volume (gal)/(L) 49.53 Purge Rate (gpm)/(mLpm) 7 gpm av.

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1121	8	7.56	2.89	86.8	6.81	29.44	0.11	1.38	60	WELL BOX NEEDS
	1124	20	7.53	2.25	634	5.24	29.38	0.12	1.59	63	TO BE REPLACED
	1126	30	7.51	3.17	306	9.13	29.78	0.16	2.05	82	
	1129	40	7.50	3.27	228	10.18	29.63	0.16	2.10	93	
	1132	50	7.49	3.33	189	10.35	29.64	0.17	2.14	103	
	1135	60	7.48	3.34	116	10.07	29.68	0.17	2.16	110	
	1139	70	7.47	3.41	67.3	10.05	29.74	0.17	2.18	117	Total gal. removed.
	1142	80	7.47	3.45	20.4	10.03	29.77	0.17	2.21	123	103 gal.
53.60	1154	—	—	—	—	—	—	—	—	—	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1142 Sample Location: pump tubing well port X spigot baller other Comments: HORIBA TOT-SAFETY #054931
HACH PGE-2005-01CInitial Depth to Water (ft BTOC): 48.98

WD (Well Depth - from table) ft btc (74)

SWH (Standing Water Height) = WD-Initial Depth 25.02D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2.5 4"One Casing Volume = D*SWH 16.51Three Casing Volumes = 49.53Color: clear, grey, yellow, brown, black, cloudy, greenMeasure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005.02

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	

Comments: TRANSDUCER IN WELL BUT CAN NOT BE REMOVEDOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/8/05Field Team 2Field Conditions Sunny, warmPage 1 of 7Well/Sample Number MW-27-020-056QC Sample ID NAQC Sample Time NAPurge Start Time 1055 025Purge Method 3 CVDed. Pump Red-Flu-2Flow Cell (Y) NMin. Purge Volume (gal)/(L) 5-26Purge Rate (gpm)/(mLpm) 1 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
9.13	1058	3.0	7.40	3.09	7.7	0.34	18.5	0.1	1.8	-163	Water is clear / odorless
9.15	1101	6.0	7.62	2.52	5.2	0.07	18.1	0.1	1.6	-172	
9.16	1104	9.0	7.58	2.34	3.6	0.13	17.6	0.1	1.5	-174	
9.20	1107	12.0	7.56	2.25	1.7	0.16	17.6	0.1	1.5	-176	
9.21	1110	15.0	7.57	2.22	1.2	0.56	17.6	0.1	1.4	-177	
9.22	1113	18.0	7.57	2.18	1.0	0.00	17.6	0.1	1.4	-178	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	N	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

Sample Time 1115 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 8.68

WD (Well Depth - from table) ft btc (19)

SWH (Standing Water Height) = WD-Initial Depth 10.37D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17One Casing Volume = D*SWH 1.75Three Casing Volumes = 5.26Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	NA
1050	8.68	1125	8.73		
Comments: Transducer not removed					

Odor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/8/05Field Team 2 JK/DZ/MRField Conditions Sunny, Warm, No BreezePage 1 of 1Well/Sample Number MW-27-060-056QC Sample ID NAQC Sample Time NAPurge Start Time 0915Purge Method 3C-V Jet-purge Ded. Pump NoneFlow Cell: (Y) NMin. Purge Volume (gal)/(L) 25.34 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
10.08 0918 ¹²	0918	3.0	6.62	21.2	39.1 5.90	5.75	20.7	1.3	13	-63	water slightly cloudy.
	0921	9.0	7.01	18.6	25.6	2.47	21.2	1.1	12	-125	odor less
10.11	0924	15.0	7.11	18.2	9.1	1.39	21.3	1.1	12	-135	
10.11	0927	21.0	7.16	18.1	4.0	1.17	21.4	1.1	12	-139	water has cleared.
10.11	0930	27.0	7.20	18.1	2.7	1.11	21.3	1.1	12	-142	
10.11	0933	33.00	7.22	18.0	1.1	1.06	21.3	1.1	12	-144	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			NA	NA	NA	NA	NA	-	-	NA	New well, data not available

Sample Time 935

Sample Location:

pump tubing X

well port

spigot

bailer

other

Comments: 4. Blak MW-27-060-056 collectorInitial Depth to Water (ft BTOC): 9.73

WD (Well Depth - from table) ft btc (59.42)

SWH (Standing Water Height) = WD-Initial Depth 49.69D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"= 0.04 (2 in) 0.17One Casing Volume = D*SWH 8.44Three Casing Volumes = 25.34Color: (C) grey, yellow, brown, black, cloudy, greenSlightly cloudy at beginning of purge
Purged to clear.

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER:

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW
910	9.73	941	9.74	912
Time of Reinstallation 943				

Comments:

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions Sunny, warm

Sampling Event 2005-056-Q1
 Date 3/8/05
 Page 1 of 1

Well/Sample Number MW-27-085-056

QC Sample ID NA MW-27-085-056 FF QC Sample Time 1031

Purge Start Time 1005

Purge Method Pump Pump Ded. Pump NA

Flow Cell: (Y) N

Min. Purge Volume (gal)/(L) 36 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
1088	1008	6.0	7.44	20.9	5.1	6.23	22.4	1.3	14	-164	Clear. Slightly sulfurous
1080	1011	12.0	7.47	22.5	10.7	5.98	22.5	1.4	15	-163	odor.
1080	1014	18.0	7.47	22.4	4.8	5.90	22.6	1.4	15	-156	
1079	1017	21.0	7.48	22.3	1.8	1.01	22.6	1.3	14	-153	
1079	1020	27.0	7.47	22.1	1.0	0.45	22.7	1.3	14	-152	
1079	1023	33.0	7.47	22.0	0.5	0.20	22.7	1.3	14	-152	
1080	1026	39.0	7.47	22.0	0.5	0.15	22.7	1.3	14	-152	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			NA	NA	NA	NA	NA	NA	NA	NA	New well.

Sample Time 1031 Sample Location: pump tubing X well port spigot baller other

Comments: -FF sample were preserved. 7199 to 7.0-9.5 pH @ 1000 is 2 pH w/ HNO₃ buffer

Initial Depth to Water (ft BTOC): 942

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (80)

SWH (Standing Water Height) = WD-Initial Depth 70.58

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17

One Casing Volume = D*SWH 12.00

Three Casing Volumes = 36.00

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	956
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1051
954	942	10:46	946		
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2Field Conditions Sunny, warmSampling Event 2005-056-Q1Date 3/10/05Page 1 of 1Well/Sample Number MW-28-025-056QC Sample ID NAQC Sample Time NAPurge Start Time 1015Purge Method 3CVDed. Pump Rec. Flow

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 5.14Purge Rate (gpm)/(mLpm) 1 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
15.16	9:17	2.0	7.28	1.42	0.5	6.77	22.13	0.1	0.9	140	clear, odorless
15.17	9:20	3.0	7.44	1.41	0.1	6.04	22.87	0.1	0.9	94	
15.19	9:23	6.0	7.52	1.41	0.1	5.89	23.21	0.1	0.9	7.5	
15.20	9:26	9.0	7.55	1.41	0.1	5.85	23.31	0.1	0.9	68	
15.20	9:29	12.0	7.59	1.40	0.1	5.82	23.35	0.1	0.9	64	
15.20	9:32	15.0	7.62	1.40	0.1	5.63	23.52	0.1	0.9	60	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	X	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-	-	Y	

Sample Time 1035 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____Comments: 935Initial Depth to Water (ft BTOC): 14.91

WD (Well Depth - from table) ft b/c (25)

SWH (Standing Water Height) = WD-Initial Depth 10.09D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17One Casing Volume = D*SWH 1.71Three Casing Volumes = 5.14

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	
909	14.91	943	14.94	NA	
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/7/08Field Team 2Field Conditions Warm/ClearPage 1 of 1Well/Sample Number MW-28-090-056QC Sample ID NAQC Sample Time —Purge Start Time 1435Purge Method Redi-FloDed. Pump upsFlow Cell: 1 NMin. Purge Volume (gal)/(L) 42 galPurge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
16.45	1435	0-2	7.41	13.0	10.9	.48	23.4	.7	8	-188	Water is clear
16.44	1440	10	7.60	12.7	5.5	.30	23.4	.7	8	-199	w/No odor.
16.46	1445	20	7.81	12.5	1.0	.11	23.5	.7	8	-195	
16.48	1450	30	7.83	12.4	.8	.08	23.4	.7	8	-192	
16.48	1455	40	7.82	12.3	.5	.07	23.5	.7	8	-192	
16.48	1458	45	7.83	12.3	.9	.05	23.3	.7	8	-190	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?			Y	N	Y	N	NA	NA	NA	Y	

Sample Time 1500 Sample Location:pump tubing Xwell port —spigot —boiler —other —Comments: —Initial Depth to Water (ft BTOC): 15.87

WD (Well Depth - from table) ft btc (98.5)

SWH (Standing Water Height) = WD-Initial Depth 82.63D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 .17One Casing Volume = D*SWH 14.04 X3Three Casing Volumes = 42.14Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: 11880

Initial DTW / Before Removal				If Transducer	
Approx. 5 min After Reinstallation				Time of Removal	Time of Reinstallation
Time	Initial DTW	Time	Final DTW		
1432	15.87	1508	15.87		
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/9/05Field Team 2

Field Conditions _____

Page 1 of _____Well/Sample Number MW-29-056QC Sample ID NAQC Sample Time NAPurge Start Time 1031Purge Method 3CVDed. Pump mini-MassconFlow Cell: (Y) NMin. Purge Volume (gal)/(L) 4.00Purge Rate (gpm)/(mLpm) 0.20 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
33.65	1040	1.8	6.95	27.3	774	0.70	25.4	1.7	18	-174	unhooked horiki while sediment
34.18	1045	2.8	7.00	30.0	146	0.55	25.5	1.9	20	-169	cleared.
34.29	1048	3.4	7.01	30.3	530	0.80	25.5	1.9	20	-158	
34.30	1051	4.2	7.02	30.9	35.9	1.02	25.6	1.9	20	-151	
34.20	1054	4.8	7.03	31.3	19.8	1.18	25.6	2.0	20	-144	
34.21	1057	5.4	7.03	32.3	29.1	1.43	25.6	2.0	21	-134	
34.07	1100	6.0	7.02	32.9	23.7	1.77	25.7	2.1	21	-127	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	N	NA	-	-	N	
Are measurements consistent with previous?			Y	N	~	Y	NA	-	-	Y	

Sample Time 1105 Sample Location: _____pump tubing X

well port _____

spigot _____

bailer _____

other _____

Comments: Pump could not maintain purge volume, therefore, parameters did not stabilize. Sample collected. Will order replacement pump. TD = 40.08 after purge.Initial Depth to Water (ft BTWC): 32.38Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: 11880WD (Well Depth - from table) ft b/c (42) 40SWH (Standing Water Height) = WD-Initial Depth 7.62D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17One Casing Volume = D*SWH 1.3 m. 1.30Three Casing Volumes = 3.88

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	
1027	32.38	1107	32.88		
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions _____

Sampling Event 2005-056-Q1
 Date 3/10/05
 Page 1 of 1

Well/Sample Number MW-30-030-056

QC Sample ID NA QC Sample Time _____

Purge Start Time 1957

Purge Method 3LV Ded. Pump Red. Flo 2

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 9.30 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
17.00	1000	3.0	7.10	55.4	741.0	4.46	24.42	3.7	34	-11	redish brown water.
17.10	1003	6.0	7.15	58.6	189.0	4.31	24.52	3.9	35	-17	odorless
17.24	1006	9.0	7.18	60.9	588.0	4.30	24.64	4.0	38	-22	
17.24	1009	12.0	7.21	62.7	213.0	4.22	24.69	4.0	38	-38	
17.27	1012	15.0	7.23	63.8	73.7	4.21	24.57	4.0	38	-74	
17.29	1015	18.0	7.24	64.4	39.6	4.15	24.62	4.0	39	-80	
17.31	1018	21.0	7.25	65.1	99.7	4.15	24.60	4.0	39	-85	
17.32	1021	24.0	7.25	65.9	678	4.11	24.62	4.0	40	-84	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	N	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	N	-	Y	NA	-	-	Y	

Sample Time 1024 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: Water was redish-brown throughout purge. All other parameters stable.
7109 buffered to 7.0-7.5 pH. Colored H₂O₂ to 2 pH

Initial Depth to Water (ft BTOC): 15.78

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (34)

SWH (Standing Water Height) = WD-Initial Depth 18.22

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17

One Casing Volume = D*SWH 3.09

Three Casing Volumes = 9.29

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	NA
956	15.78	1032	15.97		
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions Sunny, Warm

Sampling Event 2005-056-Q1
 Date 3/10/05
 Page 1 of

Well/Sample Number MW-30-050-056

QC Sample ID NA

QC Sample Time NA

Purge Start Time 1036

Purge Method 3LV Ded. Pump Rel. Slo 2

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) 70 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
17.54	1039	9.0	7.54	7.66	5.06	5.16	26.45	0.5	6.1	-271	Subsious odor, clear
17.56	1042	12.0	7.52	9.86	4.97	4.97	26.48	0.6	6.3	-254	water
17.57	1047	27.0	7.52	9.0	0.94	4.82	26.56	0.6	6.7	-239	
17.58	1052	42.0	7.54	7.0	0.97	4.73	26.68	0.5	7.0	-234	
17.58	1057	57.0	7.55	9.0	0.89	4.68	26.79	0.5	7.2	-231	
17.58	1102	72.0	7.55	9.0	0.56	4.66	26.87	0.7	7.2	-230	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	X	-	X	NA			X	

Sample Time 1105 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOW): 17.09

WD (Well Depth - from table) ft btc (52.4)

SWH (Standing Water Height) = WD-Initial Depth 35.31

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) 0.66

One Casing Volume = D*SWH 23.3

Three Casing Volumes = 69.9

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
<u>11:33</u>	<u>17.09</u>	<u>11:11</u>	<u>17.16 m</u>	<u>NA</u>	<u>NA</u>
Comments: <u>17.16</u>					

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 1Field Conditions clear / SunnySampling Event 2005-056-Q1Date 03-09-05Page of Well/Sample Number MW-31-060-056

QC Sample ID

NAQC Sample Time Purge Start Time 1449

Purge Method

Per. PumpFlow Cell (Y) NMin. Purge Volume (gal)/(L) 38.31 Purge Rate (gpm)/(mLpm) 7-10 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1450	15	7.76	2.84	27.7	8.21	28.90	0.14	1.82	185	
—	1452	30	7.69	2.85	15.0	7.64	28.97	0.14	1.82	187	
—	1454	45	7.66	2.85	19.0	7.32	28.94	0.14	1.83	188	
—	1455	60	7.65	2.86	21.0	7.26	28.98	0.14	1.83	189	
	1457	75	7.64	2.86	26.6	6.91	28.98	0.14	1.83	190	
	1459	90	7.64	2.86	28.0	6.93	29.02	0.14	1.83	191	
	1500	105	7.64	2.86	30.0	6.96	29.03	0.14	1.83	191	
	1502	120	7.64	2.86	30.1	6.87	28.99	0.14	1.83	192	
44.80	1512										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	NA	<u>Y</u>	<u>Y</u>	<u>Y</u>	
Are measurements consistent with previous?			<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	NA	<u>Y</u>	<u>Y</u>	<u>Y</u>	

Sample Time 1503 Sample Location:pump tubing well port Xspigot bailer other

Comments:

HORIBA TOT-SAFETY #056931
HACH - PGE-2005-01CInitial Depth to Water (ft BTOC): 44.65Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE2005-02

WD (Well Depth - from table) ft btc (64)

SWH (Standing Water Height) = WD-Initial Depth 19.35

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 2.77Three Casing Volumes = 38.31Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 1Field Conditions clear / sunnySampling Event 2005-056-Q1Date 03-10-05Page of Well/Sample Number MW-31-135-056QC Sample ID NA MW-31-135-EB-056 QC Sample Time 1445Purge Start Time 1232Purge Method RediFlo 2 ~~Direct Pump~~Flow Cell (Y) / NMin. Purge Volume (gal)/(L) 44.49 Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
47.63	1235	6	7.91	11.8	481	3.88	29.58	0.68	7.4	127	
47.63	1238	12	7.88	12.2	485	3.14	29.82	0.70	7.6	122	
47.64	1241	18	7.88	12.4	> Range	2.61	30.10	0.71	7.7	99	
47.65	1251	38	7.86	12.5	90.9	1.88	29.95	0.72	7.7	46	
47.65	1256	48	7.86	12.5	11.4	1.77	29.95	0.71	7.7	46	
47.65	1259	54	7.86	12.5	7.86	1.74	29.95	0.72	7.7	36	
47.65	1301	58	7.86	12.5	3.99	1.61	29.95	0.71	7.7	39	
47.65	1303	62	7.86	12.5	2.65	1.53	29.99	0.71	7.7	42	
47.65	1305	66	7.86	12.5	2.20	1.49	30.00	0.72	7.7	42	
46.42 1316			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-	-	Y	

Sample Time 1307 Sample Location: pump tubing X well port spigot bailer other Comments: HARIBA TOT-SAFETY # 056931
HACH PSE # 2005-01CInitial Depth to Water (ft BTOC): 46.40Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PSE-2005-02

WD (Well Depth - from table) ft btc (133.65)

SWH (Standing Water Height) = WD-Initial Depth 87.25D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2"One Casing Volume = D*SWH 14.83Three Casing Volumes = 44.49

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	1220
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1317
1219	46.40	1320	46.40		
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions Sunny, Warm

Sampling Event 2005-056-Q1
 Date 3/9/05
 Page 1 of 1

Well/Sample Number MW-32-020-056

QC Sample ID NA

QC Sample Time _____

Purge Start Time 14:19

Purge Method Radiflow 2 Ded. Pump Yes

Flow Cell: (Y) N

Min. Purge Volume (gal) 6.5 Purge Rate (gpm)/(mLpm) 2 gpm (reduced to 1 gpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
11.60	12:22	6	6.79	28.9	16 ^{BS} 30.6	0.37	23.4	1.8	19	-149	
11.75	12:25	12	6.81	29.1	112	0.23	23.2	1.8	19	-153	Back off flow to 1 gpm
11.58	12:29	16	6.82	29.6	BS 43 43.9	0.10	23.0	1.9	19	-157	
11.58	12:32	19	6.83	29.5	54.5	0.07	22.9	1.8	19	-158	
11.59	12:35	22	6.83	29.7	24.5	0.06	22.8	1.9	19	-159	
11.60	12:38	25	6.84	29.9	44.6	0.03	22.8	1.9	19	-161	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	No	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			Y	high	Y	low	NA	-	-	Y	

Sample Time 14:40 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 9.29

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11880

WD (Well Depth - from table) ft btc (22)

SWH (Standing Water Height) = WD-Initial Depth 12.71

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 2.2

Three Casing Volumes = 6.5

Initial DTW / Before Removal				If Transducer	
		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	
14:16	9.29	14:49	9.42		
Comments: _____					

Color: clear grey, yellow, brown, black, cloudy, green

Odor: none sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP

Job Number 316363.GM.02

Field Team 2

Field Conditions Sunny, Warm (~)

Sampling Event 2005-056-Q1

Date 3/9/05

Page 1 of 1

Well/Sample Number MW-32-035-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 14:52

Purge Method

Red Flow

Ded. Pump

Yes

Flow Cell: (Y) N

Min. Purge Volume (gal)/(L)

57

Purge Rate (gpm)/(mLpm)

2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
11.07	14:57	10	7.25	12.0	36.2	0.11	25.8	0.7	8	-144	
1103	15:02	20	7.23	12.7	17.7	0.08	25.9	0.7	8	-170	
1104	15:07	30	7.23	12.9	7.77	0.09	25.9	0.7	8	-176	
1104	1510	36	7.23	12.7	5.26	0.08	26.0	0.7	8	-179	
1105	1513	42	7.23	12.6	3.13	0.08	25.9	0.7	8	-181	
1105	1516	48	7.23	12.5	3.02	0.08	25.9	0.7	8	-182	
1105	1519	54	7.23	12.4	2.11	0.07	25.8	0.7	8	-183	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	Y	Y	Y	

Sample Time 15:30 Sample Location:

pump tubing

X

well port

spigot

bailer

other

Comments:

Initial Depth to Water (ft BTOC): 10.06

WD (Well Depth - from table) ft btc (39) 20

SWH (Standing Water Height) = WD-Initial Depth 29

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 4.9 19

Three Casing Volumes = 14.8 57

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: 11880

If Transducer

Initial DTW / Before Removal

Approx. 5 min After Reinstallation

Time

Initial DTW

Time

Final DTW

Time of Removal

Time of Reinstallation

Comments:

Color: (clear) grey, yellow, brown, black, cloudy, green

Odor: (none) sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2Field Conditions unny warmSampling Event 2005-056-07Date 3/10/05Page 1 of 1Well/Sample Number MW-33-040-056

QC Sample ID

NA

QC Sample Time

NA

Purge Start Time 1123Purge Method 3LV

Ded. Pump

Redi-Flow 2 mini-manifoldFlow Cell: ☒ NMin. Purge Volume (gal)/(L) 2.2

Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons/ liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
											Heavy silt. well runs dry and recharges continuously with little or no reading and sample - after recharge
	1135	2	7.97	7.05	NA	3.28	27.9	0.4	4.7	-125	silt water! disconnected Horbar on KL clear
	1155	Sample collected									
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1130

Sample Location:

pump tubing

well port

spigot

bailer

other

Comments: 1155Initial Depth to Water (ft BTOC): 35.53

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft b/c (42)

SWH (Standing Water Height) = WD-Initial Depth 6.97D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4")² x 0.17One Casing Volume = D*SWH 1.10Three Casing Volumes = 2.2

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW
1120	35.53			
Comments:				
Time of Reinstallation				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2Field Conditions Sunny, Warm (~80°F)Sampling Event 2005-056-Q1Date 3/9/05Page 1 of 1Well/Sample Number MW-33-090-056QC Sample ID NA

QC Sample Time

Purge Start Time 12:10Purge Method Redi Flow 2 Ded. Pump yesFlow Cell: DI NMin. Purge Volume (gal)/(L) 109 Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
36.26	12:13	9	7.56	9.36	>1000	0.84	28.0	0.5	6.3	-178	H ₂ S odor
36.27	12:16	18	7.58	12.2	6.72	0.73	28.1	0.7	8.0	-164	
36.27	12:21	33	7.60	12.6	2.45	1.74	28.0	1.7	8	-130	
36.27	12:24	48	7.60	12.9	0.72	1.68	28.1	1.7	8	-118	
36.27	12:31	63	7.60	13.1	0.68	0.68	28.2	0.8	9	-113	
36.27	12:36	78	7.59	13.5	4.97	0.65	28.3	0.8	9	-105	
36.27	12:41	93	7.59	13.6	5.71	0.67	28.1	0.9	9	-102	
36.27	12:47	109	7.59	13.7	0.78	0.66	28.3	0.9	9	-101	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Yes	Yes	Yes (<10)	Yes	NA	Yes	Yes	Yes	
Are measurements consistent with previous?			Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	

Sample Time 12:50 Sample Location: pump tubing ☒ well port ☐ spigot ☐ bailer ☐ other ☐Comments: MW-33-090-056 FF collected* Field filtered sample took 7 drops before reaching 9-9.5 (Added 1.5 mL b/c lab stated not enough buffer)Initial Depth to Water (ft BTOC): 35.82Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11880

WD (Well Depth - from table) ft btc (91) ~91 Set to bottom

SWH (Standing Water Height) = WD-Initial Depth 55.19D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) 3.85One Casing Volume = D*SWH 36.42 galThree Casing Volumes = 109.3 galColor: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/10/05Field Team 2Field Conditions Sunny, ClearPage 1 of 1Well/Sample Number MW-34-055-056QC Sample ID NA

QC Sample Time _____

Purge Start Time 1152

Purge Method _____

Ded. Pump _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
9.50	1155	9	7.69	9.77	2.01	5.71	23.13	0.6	6.2	-191	Odorless, clear water
9.51	1158	9.18	7.69	9.0	1.43	5.56	23.08	0.4	6.3	-194	
9.51	1201	9.27	7.68	9.0	0.69	5.56	23.17	0.4	6.4	-190	
9.52	1204	42	7.67	9.0	0.74	5.26	23.48	0.6	6.5	-190	
9.53	1211	57	7.69	9.99	8.59	5.07	23.52	0.4	6.5	-190	Hach meter errored out
9.53	1216	72	7.66	9.0	172.0	5.11	23.60	0.6	6.4	-191	
9.53	1221	87	7.69	9.99		5.04	23.41	0.6	6.4	-191	
9.53	1226	102	7.66	9.0		5.13	23.12	0.6	6.4	-191	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Yes	Yes	Yes	Yes	NA	—	—	Yes	
Are measurements consistent with previous?			Yes	Yes	Yes	NO	NA	Yes	Yes	NO	

Sample Time 1228 Sample Location: pump tubing _____ well port _____ spigot _____ baller _____ other _____Comments: ORP was stable but was significantly lower last eventInitial Depth to Water (ft BTOC): 4.23

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (56.5)

SWH (Standing Water Height) = WD-Initial Depth 47.27

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

One Casing Volume = D*SWH 31.02Three Casing Volumes = 95.86

Initial DTW / Before Removal		If Transducer	
		Approx. 5 min After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW
			Time of Reinstallation
Comments:			

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2 SK/OC/mlrField Conditions Sunny ~80°FSampling Event 2005-056-Q1Date 3/8/05Page 1 of 1Well/Sample Number MW-34-080-056

QC Sample ID

NA

QC Sample Time

NA

Purge Start Time 1325Purge Method 3 CY

Ded. Pump

Red. Flo 2Flow Cell: (Y) NMin. Purge Volume (gal)/(L) 147Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
12.42	1330	15.0	7.16	17.3	0.39 ^{0.83}	24.6 ^{24.35}	24.6	1.0	11	-138	Water is clear and odorless
12.43	1335	30.0	7.21	17.8	0.23	0.17	24.24 ^{24.7}	1.1	12	-132	
12.44	1340	45.0	7.21	17.9	0.15	0.14	24.6	1.1	12	-112	
12.44	1345	60.0	7.22	17.8	0.87	0.09	24.6	1.1	12	-99	
12.45	1350	75.0	7.22	17.8	0.22	0.07	24.2	1.1	12	-92	
12.45	1355	100.0	7.22	17.7	0.11	0.06	24.1	1.0	11	-89	
12.46	1400	115.0	7.23	17.6	0.11	0.05	24.1	1.0	11	-87	
12.45	1405	130.0	7.23	17.6	0.05	0.05	24.0	1.0	11	-85	
12.4	1410	145.0	7.24	17.6	0.04 ^{0.16}	0.04	24.0	1.0	11	-84	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y ^{ml}	—	Y	
Are measurements consistent with previous?			Y	Y	NA	No	NA	NA	NA	N	

Sample Time 1415 Sample Location: pump tubing X well port _____ spigot _____ baller _____ other _____Comments: DO is significantly lower than typical for this locationInitial Depth to Water (ft BTOC): 9.85

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft bto (83.75)

SWH (Standing Water Height) = WD-Initial Depth 73.9D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) 0.66One Casing Volume = D*SWH 48.77Three Casing Volumes = 146.32

Initial DTW / Before Removal		If Transducer	
		Approx. 5 min After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW
13:22	9.85	14:30	9.90

Comments:

Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/8/05Field Team 2 sk/dz/mkField Conditions SunnyPage 1 of 1Well/Sample Number MW-34-100-056QC Sample ID NAQC Sample Time NAPurge Start Time 1221Purge Method Redi-Flow W/Manual Ded. PumpFlow Cell (Y) NMin. Purge Volume (gal)/(L) 55Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
10.53	1224	6.0	7.57	20.6	4.11 4.33	4.33	27.6	1.2	13	-132	Cloudy brown
10.55	1227	12.0	7.59	19.9	24	2.42	25.4	1.2	13	-88	
10.56	1230	18.0	7.53	19.7	7	1.39	25.0	1.2	13	-66	Clear.
10.56	1238 ^{me}	24.0	7.50	19.8	3	0.86	24.8	1.2	13	-61	
10.56	1236	32.0	7.48	19.9	2	0.73	24.9	1.2	13	-60	
10.56	1242 ³⁹	38.0	7.47	20.0	2	0.58	25.0	1.2	13	-61	
10.56	1242	44.0	7.47	19.8	1	.48	25.0	1.2	13	-60	
10.56	1245	50.0	7.47	19.9	.74	.46	25.0	1.2	13	-59	
10.56	1248	56.0	7.47	19.9	.87	.41	24.9	1.2	13	-60	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	NA	Y	NA	—	—	Y	
Are measurements consistent with previous?			NA	—	—	—	NA	—	—	—	New Well

Sample Time 1300 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____Comments: Water started murky - brown. Purged to clearInitial Depth to Water (ft BTOW): 9.56Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (116.53)

SWH (Standing Water Height) = WD-Initial Depth 106.97D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) 0.17One Casing Volume = D*SWH 18.18Three Casing Volumes = 54.55

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Initial DTW		Final DTW		Time of Reinstallation	
1215		9.56		1302	1218
				1305	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none/sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Sampling Event 056
Date 3/15/05
Page 1 of 2

QC Sample ID	_____
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QC Sample Time _____

Purge Method: 3 Casing Volume Ded. Pump NoneMin. Purge Volume (gal)/(L) 52 galPurge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv	Comments (See descriptors below)
32.95	1230	0-2	7.67	15.7	.89	3.00	25.11	.84	8.9	-130	Water is clear with no odor.
32.96	1231	9	7.82	12.1	.86	2.22	26.53	.66	7.2	-145	
33.00	1234	18	7.95	11.1	.84	2.28	26.79	.62	6.8	-138	
33.00	1237	27	8.03	11.0	.85	2.29	26.95	.62	6.8	-131	
33.00	1241	36	8.05	10.8	.61	2.19	26.96	.61	6.7	-120	
33.02	1244	45	8.09	10.8	.52	2.15	27.00	.61	6.7	-113	
33.02	1247	54	8.09	10.8	.49	2.11	27.00	.61	6.7	-108	
Parameter Stabilization Criteria:			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?							NA				

Comments: _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

TRANSDUCER: Enter data even when transducer is not removed

Before Removal		Approx. 5 min After Reinstallation		Time of Removal	1229
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1155
1220	31.38	1300	31.43		
Comments:					

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 RD/RR Field Conditions Sunny, Hot

Sampling Event 2005-056-Q1
 Date 3-9-05
 Page 1 of 1

Well/Sample Number MW-36-020-056

QC Sample ID NA

QC Sample Time NA

Purge Start Time 0937

Purge Method 3 CV Ded. Pump Pens. static

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 0.6 Purge Rate (gpm)/(mLpm) .26

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
	0940	.1	7.21	26.2	62.3	7.15	25.54	1.6	15	-41	floating Water has Brown tint
	0943	.58	7.47	24.9	9.99	7.56	25.44	1.5	15	-39	water is Brown and lots of partic
	0946	1.66	7.54	23.5	31.0	7.62	25.42	1.4	15	-45	water is ^{light yellow} w/ floating matter
	0949	2.44	7.56	23.0	35.2	7.64	25.35	1.4	14	-66	
	0952	3.22	7.57	22.4	3.6	7.63	25.32	1.4	14	-81	
	0955	4	7.59	22.7	.8	7.63	25.33	1.4	14	-87	water is clear/No Particulates
	0958	4.78	7.61	22.6	.6	7.59	25.39	1.4	14	-88	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	Y	No	NA	-	-	Y	

Sample Time 0959 Sample Location: pump tubing ☒ well port spigot bailer other
 Comments: Do is higher than typical. Usually 4.0-5.0

Initial Depth to Water (ft BTOC): 18.01 0911

WD (Well Depth - from table) ft btc (22.8)

SWH (Standing Water Height) = WD-Initial Depth 4.79

D (Volume as per diameter) 2" = 0.17, 4" = 0.66 1" = 0.04 .20

One Casing Volume = D*SWH .20

Three Casing Volumes = .6

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time of Reinstallation	
0911	18.01			

Comments:

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 KD/BR Field Conditions clear water

Sampling Event 2005-056-Q1
 Date 3-8-05
 Page 1 of 1

Well/Sample Number MW-36-040-056

QC Sample ID

NA

QC Sample Time

NA

Purge Start Time 1106Purge Method Peristaltic Ded. PumpFlow Cell: Y / NMin. Purge Volume (gal)/(L) 3.0Purge Rate (gpm)/(mLpm) 0.25

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
	1111	1	7.82	9.99	.6	5.98	25.49	.5	5.2	-188	
	1114	1.75	7.83	9.99	.8	5.78	25.47	.5	5	-190	
	1117	2.5	7.81	9.99	.3	5.66	25.48	.5	5	-192	
	1120	3.25	7.83	9.99	.4	5.59	25.52	.6	6.9	-192	
	1123	4.0	7.82	9.0	.5	5.54	25.53	.6	5	-194	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	—	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	N	NA	—	—	Y	

Sample Time 1124 Sample Location: pump tubing ☒ well port ☐ spigot ☐ bailer ☐ other ☐

Comments: 5.75 total Purge / 18.05 FDTW Do significantly higher than previous

Initial Depth to Water (ft BTOW): 18.01

WD (Well Depth - from table) ft btc (42.85)

SWH (Standing Water Height) = WD-Initial Depth 24.84D (Volume as per diameter) 2" = 0.17, 4" = 0.66, (1"=0.04) .99One Casing Volume = D*SWH .99Three Casing Volumes = 2.98Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1103	18.01	1128	18.05	
Comments:				

Comments:

Color: Clear grey, yellow, brown, black, cloudy, greenOdor: none sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP

Sampling Event 2005-056-Q1

Job Number 316363.GM.02

Date 3-8-05

Field Team 3 UD/RR

Field Conditions clear warm

Page 1 of 2

Well/Sample Number MW-36-050-056

QC Sample ID

NA

QC Sample Time

NA

Purge Start Time 1002

Purge Method PERISTALTIC

Ded. Pump

Flow Cell Y N

Min. Purge Volume (gal)(L) 4.25

Purge Rate (gpm)(mLpm) 27 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1002		7.42	8.09	2.0	7.51	25.14	.4	5.1	-168	
	1005		7.58	8.25	1.1	6.56	25.27	.5	5.2	-135	
	1008		7.65	8.35	2.2	6.21	25.09	.5	5.3	-113	
	1011		7.67	8.48	1.4	6.03	25.04	.5	5.4	-180	
	1014		7.68	8.63	1.3	5.89	25.20	.5	5.5	-187	
	1017	.75	7.69	8.69	1.1	5.78	25.43	.5	5.5	-187	
	1021	1.75	7.69	8.81	1.1	5.67	25.41	.5	5.5	-182	27 GPM
	1024	2.02 ^{2.56}	7.70	8.78	1.1	5.64	25.27	.5	5.6	-176	
	1027	2.29 ^{3.37}	7.69	8.79	3.7	5.63	25.31	.5	5.5	-171	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-	-	Y	

Sample Time 1039* Sample Location:

pump tubing ✓

well port

spigot

bailer

other

Comments: Resampled for SW 60103. Original sample was accidentally preserved. Resampled at 14:50*

Initial Depth to Water (ft BTOW): 18.00

WD (Well Depth - from table) ft btc (53.39)

SWH (Standing Water Height) = WD-Initial Depth 35.39

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 1.42

One Casing Volume = D*SWH 1.42

Three Casing Volumes = 4.25

Color: (clear) grey, yellow, brown, black, cloudy, green

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER:

If Transducer			
Initial DTW / Before Removal		Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
1000	1800		
Comments:			

Odor: (none) sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

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Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 Field Conditions Clear Warm

Sampling Event 2005-056-Q1
 Date 3-8-05
 Page 1 of 2

Well/Sample Number MW-36-070-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 1205Purge Method Peristaltic Bed PumpFlow Cell: ① NMin. Purge Volume (gal)/(L) 6.58 Purge Rate (gpm)/(mLpm) .09

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EMVORP mv	Comments (See description below)
	12.17	1	7.55	9.99	2.0 1.7	5.81	26.04	.4	5	-143	
	1222	1.45	7.56	9.99	1.7	5.83	25.98	.4	5	-136	
	1227	1.90	7.58	9.99	.6	5.64	25.97	.4	6.7	-131	
	1232	2.35	7.58	9.99	.6	5.52	25.97	.4	5	-128	1235 Attempted to clean Cond. Probe
	1237	2.80	7.59	9.3	.6	6.41	25.68	.5	6	-115	Due to faulty Readings
	1242	3.25	7.59	10.9	.7	5.48	26.30	.6	7	-117	
	1247	3.70	7.59	11.3	.4	5.35	26.46	.6	7	-117	
	1252	4.15	7.59	11.6	.4	5.30	26.48	.7	7	-117	
	1257	4.60	7.59	11.6	.4	5.27	26.52	.7	7	-117	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	—	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	N	NA	—	—	Y	

Sample Time 1323 Sample Location: pump tubing ☒ well port ☐ spigot ☐ bailer ☐ other ☐

Comments: Final DTW 17.74

Initial Depth to Water (ft BTOC): 17.70

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (72.55)

SWH (Standing Water Height) = WD-Initial Depth 54.85

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2.19

One Casing Volume = D*SWH 2.19

Three Casing Volumes = 6.58

If Transducer			
Initial DTW / Before Removal		Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
1201	17.70	1329	17.74
Comments:			

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-09-05Field Team 3Field Conditions clear warmPage 1 of 2Well/Sample Number MW-36-090-056QC Sample ID NA

QC Sample Time _____

Purge Start Time 1011Purge Method Peristaltic Ded. Pump _____Flow Cell: ☒ Y / ☐ N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) .36

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
	1013	.2	7.67	14.8	.6	6.52	25.60	.9	9	-24	
	1016	1.38	7.76	16.6	1.4	5.69	25.50	1.0	11	2	
	1019	2.36	7.81	17.9	.4	5.51	25.38	1.1	11	16	
	1022	3.44	7.85	18.5	.5	5.35	25.35	1.1	11	26	
	1025	4.52	7.74	18.5	.3	5.26	25.39	1.1	11	34	
	1028	5.6	7.74	18.4	.4	5.21	25.44	1.1	11	38	
	1031	6.68	7.74	18.4	1.7	5.20	25.40	1.1	11	42	
	1034	7.76	7.74	18.2	.6	5.15	25.44	1.1	11	45	
	1037	8.84	7.74	18.1	.2	5.18	25.42	1.1	11	47	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓	✓	✓	NA	-	-	✓	
Are measurements consistent with previous?			✓	✓	✓	-	NA	-	-	✓	

Sample Time 1041 Sample Location: pump tubing well port _____ spigot _____ bailer _____ other _____Comments: Final DTW 18.83Initial Depth to Water (ft BTOC): 18.6 0915WD (Well Depth - from table) ft btc (92.6)SWH (Standing Water Height) = WD-Initial Depth 73.95D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 6"= 0.04 2.95One Casing Volume = D*SWH 2.95 2.95Three Casing Volumes = 8.87

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

If Transducer			
Initial DTW / Before Removal		Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
Comments:			

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Sample Time _____ Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____
Comments: _____

Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions _____

Sampling Event 2005-056-Q1
 Date 3/29/05
 Page 1 of _____

Well/Sample Number MW-36-100-056

QC Sample ID NA

QC Sample Time _____

Purge Start Time 13:30

Purge Method Roll Flow 2 Ded. Pump Yes

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 47 Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
20.19	13:33	6	7.28	22.1	9.1	1.54	27.4	1.4	14	16	
20.20	13:36	12	7.32	22.4	12.8	0.82	27.3	1.4	15	11	
20.21	13:40	18	7.33	22.3	3.03	0.42	27.5	1.4	15	-9	
20.22	13:45	28	7.33	22.4	2.34	0.35	27.5	1.4	15	-15	
20.22	13:50	38	7.33	22.6	0.83	0.29	27.6	1.4	15	-19	
20.23	13:55	48	7.34	22.6	0.87	0.26	27.3	1.4	15	-20	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			low	high	Y	low	NA	Y	Y	Y	

Sample Time 13:58 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: Collected field filtered sample MW-36-100-056 FF

Initial Depth to Water (ft BTOC): 18.88'

WD (Well Depth - from table) ft btc (110.4)

SWH (Standing Water Height) = WD-Initial Depth 91.52'

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2"

One Casing Volume = D*SWH 60.4 B3 15.6 gal

Three Casing Volumes = 46.7 gal

Color: clear grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11880

Initial DTW / Before Removal		If Transducer		Time of Removal	Time of Reinstallation
Time	Initial DTW	Approx. 5 min After Reinstallation	Final DTW		
13:28	18.88	1403	18.82	N/A	N/A
Comments:					

Odor: none sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions clear, sunny

Sampling Event 2005-056-Q1
 Date 3/11/05
 Page 1 of 1

Well/Sample Number MW-37S-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 1015Purge Method 1edi-f10 Ded. Pump no

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 26.94 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
33.50	1018	2	7.95	14.4	239	5.25	29.20	0.8	9	-15	odorless, cloudy
33.50	1021	4 12	7.94	13.2	948	5.12	29.43	0.8	8	-7	
33.50	1024	8 18	7.91	13.8	34	5.23	29.29	0.8	8	16	Cleaned horiba's casing
33.50	1027	24	7.89	15.1	18	5.10	29.47	0.9	9	24	
33.48	1030	30	7.88	13.5	7	5.11	29.55	0.9	9	28	
33.48	1033	36	7.88	13.6	3	5.14	29.41	0.8	8	34	
33.48	1036	39	7.88	12.6	2	5.15	29.38	0.8	8	36	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes	yes	yes	NA	—	—	yes	
Are measurements consistent with previous?			yes	no	—	yes	NA	—	—	no	

Sample Time 1037 Sample Location: pump tubing _____ well port _____ spigot _____ baller _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 34.29

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (87.12)

SWH (Standing Water Height) = WD-Initial Depth 52.83D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 .17One Casing Volume = D*SWH 8.98Three Casing Volumes = 26.94

Initial DTW / Before Removal		If Transducer	
Time	Initial DTW	Approx. 5 min After Reinstallation	Time of Removal
1015	34.29	Final DTW	Time of Reinstallation
Comments:			

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions Clear / Sunny

Sampling Event 2005-056-Q1
 Date 3/11/05
 Page 1 of 1

Well/Sample Number MW-37D-056

QC Sample ID NA

QC Sample Time _____

Purge Start Time 10:15 1048

Purge Method red / NO Ded. Pump no

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 98.26 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
33.93	1051	9	9.49	12.4	11	5.68	30.07	1.0	10	-10	
33.93	1054	18	8.81	24.3	15	4.83	30.55	1.5	16	3	
33.93	1057	27	8.36	27.3	4	4.48	30.53	1.7	17	5	
33.93	1102	42	8.11	25.6	2	4.44	30.55	1.6	16	17	
33.93	1107	57	8.08	23.9	2	4.44	30.43	1.5	15	19	
33.93	1112	72	8.02	22.9	1	4.41	30.71	1.4	14	21	
33.93	1117	87	8.00	22.2	4.73	4.39	30.81	1.4	14	22	
33.93	1122	102	7.99	21.8	1.85	4.37	30.80	1.3	14	21	
			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			yes	yes	yes	yes	NA	—	—	yes	
Are measurements consistent with previous?			yes	yes	—	yes	NA	—	—	no	

Sample Time 1123 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 33.33

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (226.64)

SWH (Standing Water Height) = WD-Initial Depth 192.67

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"= 0.04 17

One Casing Volume = D*SWH 32.75

Three Casing Volumes = 98.26

Color: clear, grey, yellow, brown, black, cloudy, green

Initial DTW / Before Removal		If Transducer	
		Approx. 5 min After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW
<u>1048</u>	<u>33.28</u>	<u>1132</u>	<u>33.29</u>
Comments: _____			

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 2 Field Conditions Clear, Sunny

Sampling Event 2005-056-Q1
 Date 3/11/05
 Page 1 of 1

Well/Sample Number MW-38D-056

QC Sample ID NA

QC Sample Time _____

Purge Start Time 0918

Purge Method sed-Flt Ded. Pump no

Flow Cell: Y / N

Mln. Purge Volume (gal)/(L) 60.50 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
73.19	0923	9	7.57	17.6	5.2	4.68	29.77	1.1	12	119	no odor, clear water
73.20	0926	18	7.81	20.2	1.7	4.28	30.06	1.2	13	99	
73.20	0929	27	7.87	20.8	0.7	4.17	30.18	1.3	13	90	
73.20	0932	36	7.92	22.2	0.7	4.10	30.20	1.4	14	80	
73.20	0935	45	7.95	23.0	0.7	4.05	30.23	1.4	14	72	
73.20	0938	54	7.97	23.3	0.5	4.00	30.34	1.4	14	66	
73.20	0941	63	7.99	23.5	0.3	4.00	30.33	1.4	15	60	
73.20	0944	72	8.00	23.5	0.6	3.95	30.47	1.4	15	56	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			YES	YES	YES	YES	NA	—	—	YES	
Are measurements consistent with previous?			YES	YES	—	YES	NA	—	—	YES	

Sample Time 0945 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 72.34

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (190.98)

SWH (Standing Water Height) = WD-Initial Depth 118.64

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2" 0.17

One Casing Volume = D*SWH 20.16

Three Casing Volumes = 60.50

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Final DTW	
0918	72.34	0950	72.43	Time of Reinstallation
Comments: _____				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 2Field Conditions clear, sunnySampling Event 2005-056-Q1Date 3/11/05Page 1 of 1Well/Sample Number MW-38S-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 0840Purge Method red-flow Ded. Pump no

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 13.29 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
72.83	0843	3	7.02	4.56	81.7	7.56	25.58	0.2	2.9	131	odorless, slightly Hazy
72.85	0846	6	7.18	4.53	45.9	6.63	26.58	0.2	2.9	129	
72.85	0849	9	7.26	4.62	20.3	6.02	27.58	0.2	3.0	139	
72.85	0852	12	7.30	4.64	15.6	5.84	27.73	0.2	3.0	134	
72.85	0855	15	7.33	4.63	8.9	5.66	28.02	0.2	3.0	130	
72.85	0902	18	7.35	4.67	6.9	5.52	28.13	0.2	3.0	125	
	0905	21	7.36	4.65	6.1	5.36	28.38	0.2	3.0	120	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes	yes	yes	NA	—	—	yes	
Are measurements consistent with previous?			yes	yes	yes	yes	NA	—	—	yes	

Sample Time 0908 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 72.10

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc (98.16)

SWH (Standing Water Height) = WD-Initial Depth 26.06D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 0.17One Casing Volume = D*SWH 4.43Three Casing Volumes = 13.29

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	
0840	72.10	0910	72.13	Time of Reinstallation
Comments: _____				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

QC Sample Time

Bed. Pump ~~WATER~~

Purge Rate (gpm)/(mLpm)

1

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-07-05Field Team 1Field Conditions clear-SunnyPage of Well/Sample Number MW-19-056QC Sample ID NAQC Sample Time Purge Start Time 1353Purge Method Ded. Pump Flow Cell: Y NMin. Purge Volume (gal)/(L) 38.49 Purge Rate (gpm)/(mLpm) 7 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1356	21	7.54	2.27	28.1	7.87	28.41	0.11	1.45	73	
	1358	35	7.52	2.24	33.3	7.46	28.39	0.11	1.43	77	
	1400	49	7.51	2.21	28.9	7.04	28.48	0.11	1.42	83	
	1402	63	7.50	2.21	23.2	6.89	28.48	0.11	1.42	88	
	1404	77	7.49	2.21	20.6	6.69	28.45	0.11	1.41	93	
	1406	91	7.49	2.20	19.3	6.53	28.49	0.11	1.41	97	
	1408	105	7.49	2.20	19.1	6.67	28.43	0.11	1.41	100	
47.40	1412										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1410 Sample Location: pump tubing well port Xspigot bailer other Comments: HORIZA TOT-SAFETY #056931
HACH PGE 2005-01CInitial Depth to Water (ft BTOC): 47.07WD (Well Depth - from table) ft b/c (66.51)SWH (Standing Water Height) = WD-Initial Depth 19.44D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)One Casing Volume = D*SWH 12.83Three Casing Volumes = 38.49Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Final DTW	Time of Reinstallation

Comments: Transducer in well but can not be removed.

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP

Job Number 316363.GM.02

Field Team 1

Field Conditions clear - sunny

Sampling Event 2005-056-Q1

Date 03-07-05

Page _____ of _____

Well/Sample Number MW-21-056

QC Sample ID	NA
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QC Sample Time

Purge Start Time 1322

Purge Method Ded. Pump

Flow Cell: Y N

Min. Purge Volume (gal)/(L) 16.8 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity ‰	TDS g/L	Eh/ORP mv	Comments (See description below)
	1323	1.5	7.04	11.3	7.8	6.00	28.01	0.64	7.0	-86	WELL BOX NEEDS TO BE REPLACED
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time N/S Sample Location:

pump tubing

well port 

sp1got

bal/er

other

Comments:

HARRIS TOT-SAFETY # 056931

HACH # PGE-2005-OLC

Initial Depth to Water (ft BTOC): 50.98

WD (Well Depth - from table) ft btc (59.47)

$$\text{SWH (Standing Water Height)} = \text{WD-Initial Depth} \quad 2.49$$

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)

$$^1 \text{ One Casing Volume} = D^2 SWH \quad \underline{\text{S. 60}}$$

Three Casing Volumes = 16.81

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005.02

Initial DTW / Before Removal		If Transducer	
		Approx. 5 min After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW
		Time of Reinstallation	
Comments: NO TRANSDUCER			

Comments: NA TRANSDUCER

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 Field Conditions Clear Warm

Sampling Event 2005-056-Q1
 Date 3-9-05
 Page of

Well/Sample Number MW-39-040-056

QC Sample ID NA

QC Sample Time

Purge Start Time 10:18 1118

Purge Method Peri Ded. Pump

Flow Cell: ① / N

Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 43 GPM

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1020	1	7.82	7.94	1.4	6.03	26.71	.4	5.0	-159	
	1023	2.31	7.84	7.83	3.8	5.72	26.66	.4	4.9	-166	
	1026	4.43	7.86	7.83	2.1	5.48	26.69	.4	4.9	-169	
PL	1029	4.93	7.86	7.80	2.3	5.33	26.71	.4	4.9	-171	
	1032	6.24	7.85	7.90	1.8	5.23	26.69	.4	5.0	-173	
	1035	7.55	7.86	8.13	2.2	5.13	26.78	.4	5.1	-174	
	1038	8.86	7.86	8.20	1.9	5.07	26.80	.5	5.2	-176	
	1041	10.17	7.86	8.29	2.3	5.01	26.78	.5	5.2	-177	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1042 Sample Location: pump tubing ☒ well port spigot baller other

Comments: 2.17/1.31 Per 16.78 Final DTW

Initial Depth to Water (ft BTOW): 16.77

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft b/c (42.3)

SWH (Standing Water Height) = WD-Initial Depth 25.53

D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1"=0.04 1.02

One Casing Volume = D*SWH 1.02

Three Casing Volumes = 3.06

Color: Clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

If Transducer			
Initial DTW / Before Removal		Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
Time of Removal		Time of Reinstallation	

Comments:

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3-9-05Field Team 3Field Conditions Clear warmPage 1 of 1Well/Sample Number MW-39-050-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 1059Purge Method Peri

Ded. Pump

Flow Cell: 1 NMin. Purge Volume (gal)/(L) 3.99Purge Rate (gpm)/(mLpm) 416 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1202	1	7.74	11.4	5.4	5.83	26.55	.7	7	-55	
	1205	2.24	7.67	13.4	5.49 5.49	5.49	26.57	.8	9	-30	water is cloudy
	1208	3.48	7.65	14.5	2.1	5.20	26.68	.8	9	-12	
	1211	4.72	7.65	14.7	2.2	5.06	26.68	.9	9	-2	
	1214	5.96	7.65	14.5	.3	4.99	26.70	.8	9	7	
	1217	7.29	7.65	14.4	.2	4.90	26.68	.8	9	11	
	1220	8.62									
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1218 Sample Location:pump tubing ☒

well port

spigot

bailer

other

Comments: 2.25 / 1.24Final DTW 16.81Horizon W-22 C-101620HACH C-101563Initial Depth to Water (ft BTWC): 16.75Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER:

12245

WD (Well Depth - from table) ft btc (50)

SWH (Standing Water Height) = WD-Initial Depth

33.25

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04

1.33

One Casing Volume = D*SWH

1.33

Three Casing Volumes =

3.99

If Transducer

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 Field Conditions sun, warm

Sampling Event 2005-056-Q1Date 3/9/05Page 1 of 1Well/Sample Number MW-39-060-056QC Sample ID NAQC Sample Time Purge Start Time 1235Purge Method Pristaltec Ded. Pump Flow Cell Y / NMin. Purge Volume (gal)/(L) 5.93 gal Purge Rate (gpm)/(mLpm) .39

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1238	1	7.60	9.4	52.8	5.82	26.79	.6	7	55	
	1241	2.19	7.58	14.1	36.2	5.35	26.78	.8	9	58	
	1244	3.38	7.58	14.9	18.6	5.17	26.77	.9	9	60	
	1247	4.57	7.59	15.2	9.3	5.08	26.85	.9	9	62	
	1250	5.76	7.58	15.3	8.8	5.01	26.83	.9	9	63	
	1253	6.95	7.58	15.2	5.5	4.95	26.84	.9	9	65	
	1256	8.14									
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1255 Sample Location: pump tubing ☒well port spigot bailer other Comments: 2.30 / 1.19 Final DTW 17.0Horiz. U-22 C101620 HACH C-101563Initial Depth to Water (ft BTOW): 16.92Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: 12245 (Hison-nov)

WD (Well Depth - from table) ft btc (66.4)

SWH (Standing Water Height) = WD-Initial Depth 49.48D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 1" = 0.04One Casing Volume = D*SWH 1.98 galThree Casing Volumes = 5.93 gal

If Transducer				Time of Removal	
Initial DTW / Before Removal		Approx. 5 min After Reinstallation			
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
 Job Number 316363.GM.02
 Field Team 3 Field Conditions Clear bottom

Sampling Event 2005-056-Q1
 Date 3-9-05
 Page of

Well/Sample Number MW-39-070-056

QC Sample ID MW-96-056

QC Sample Time

Purge Start Time 1309

Purge Method Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) .44

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1312	1	7.70	9.99	.9	5.80	26.56	.6	5	74	
	1315	2.32	7.72	11.7	.4	5.5	26.50	.7	7	72	
	1318	3.64	7.73	12.8	3.7	5.43	26.48	.7	8	71	
	1321	4.96	7.73	13.4	3.2	5.35	26.49	.8	8	70	
	1324	6.28	7.74	13.7	.5	5.31	26.49	.8	8	70	
	1327	7.6	7.74	13.8	.5	5.25	26.50	.8	9	71	
	1330	8.92									
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1328 Sample Location: pump tubing ☒ well port spigot bailer other
 Comments: 2.16 / 1.32 Final DTW 17.12

Initial Depth to Water (ft BTOC): 17.04

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft btc (71.8)

SWH (Standing Water Height) = WD-Initial Depth 54.76

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2.19

One Casing Volume = D*SWH 2.19

Three Casing Volumes = 6.57

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
Comments:				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team 3Field Conditions clear warmSampling Event 2005-056-Q1Date 3-9-05Page 1 of Well/Sample Number MW-39-080-056QC Sample ID NAQC Sample Time Purge Start Time 157Purge Method Ded. Pump Flow Cell: Y / NMin. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) .44

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
	1400	1	7.67	12.2	.4	5.16	26.57	.7	8	86	
	1403	2.33	7.72	15.0	.6	5.12	26.47	.9	9	84	
	1406	3.66	7.74	16.2	.6	5.07	26.51	1.0	10	82	
	1409	4.99	7.74	16.5	.7	5.06	26.50	1.0	10	82	
	1412	6.32	7.75	16.5	1.6	5.04	26.48	1.0	10	82	
	1415	7.65	7.75	16.8	2.8	5.03	26.50	1.0	10	82	
	1418	8.98	7.75	16.8	4.0	5.01	26.51	1.0	10	82	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1419 Sample Location: pump tubing ✓well port spigot bailer other Comments: 2.15 / 1.33 Final DTW 17.09FLORIDA C101620 HACH C-101563Initial Depth to Water (ft BTOW): 17.01Measure Point: Well TOCSteel Casing WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft btc (82.6)

SWH (Standing Water Height) = WD-Initial Depth 65.59D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2.62One Casing Volume = D*SWH 2.62Three Casing Volumes = 7.87

If Transducer

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/10/05Field Team 2Field Conditions SUNNY, clearPage 2 of 1Well/Sample Number MW-39-100-056

QC Sample ID

NA

QC Sample Time

Purge Start Time 1350

Purge Method

Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
17.57	1353	6	8.02	15.4		6.12	27.46	0.9	10	-12	odorless, yellow color of
17.57	1356	12	8.02	15.7		5.91	27.50	0.9	10	-8	water
17.58	1359	18	7.99	18.4		5.60	27.51	1.1	12	4	
17.58	1404	28	7.97	26.8	3.18	5.27	27.51	1.7	17	11	
17.58	1409	38	7.96	30.6	2.42	5.10	27.54	1.9	18	17	
17.58	1414	48	7.96	30.9	2.32	5.02	27.54	1.9	19	22	
17.58	1419	58	7.95	24.5	5.93	5.05	27.57	1.6	16	28	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes	yes	yes	NA	—	—	yes	
Are measurements consistent with previous?			yes	no	—	yes	NA	—	—	yes	

Sample Time 1420 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 16.80

WD (Well Depth - from table) ft btc (117.8)

SWH (Standing Water Height) = WD-Initial Depth 101D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2" 17One Casing Volume = D*SWH 17.17Three Casing Volumes = 51.51

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial DTW / Before Removal		If Transducer	
Time	Initial DTW	Approx. 5 min After Reinstallation	Time of Removal
1348	16.80	1427	16.88
Comments:		Time of Reinstallation	

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-10-05Field Team 1Field Conditions clear/hotPage of Well/Sample Number MW-40S-056QC Sample ID MW-40S-EB-056QC Sample Time 1045Purge Start Time 0946Purge Method RediFlo 2 ~~RediPump~~Flow Cell: Y NMin. Purge Volume (gal)/(L) 11.01 Purge Rate (gpm)/(mLpm) 1.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
112.50	0948	3	6.99	5.46	236	9.01	25.83	0.25	3.20	177	
112.51	0950	6	7.10	3.81	151	8.31	26.98	0.19	2.30	169	
112.51	0952	9	7.20	2.92	140	8.20	27.93	0.14	1.81	160	
112.51	0954	12	7.26	2.52	106	8.02	28.31	0.13	1.63	156	
112.51	0956	15	7.38	2.29	55.9	7.78	28.65	0.11	1.44	142	
112.51	1001	22.5	7.49	2.18	11.1	7.71	29.09	0.10	1.39	133	
112.51	1006	30.0	7.53	2.11	4.84	7.60	29.26	0.10	1.35	133	
112.51	1008	33.0	7.56	2.10	2.02	7.51	29.24	0.10	1.34	133	
112.51	1010	36.0	7.57	2.08		7.33	29.22	0.10	1.33	134	
112.00	1015		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			X	X	N	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 1012 Sample Location:pump tubing X

well port

spigot

bailer

other

Comments: WELL WAS SURSED DURING PUMP INSTALLATIONHORIBA TAT-SAFETY # 056931HACH # PGE 2005-01CInitial Depth to Water (ft BTWC): 112.30Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02WD (Well Depth - from table) ft btc (133.9)SWH (Standing Water Height) = WD-Initial Depth 21.6D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 2"One Casing Volume = D*SWH 3.67Three Casing Volumes = 11.01Color: clear grey, yellow, brown, black, cloudy, greenOdor: none sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	

Comments: NO TRANS DUCER

Project Name PGE Topock GMP

Job Number 316363.GM.02

Sampling Event 2005-056-Q1

Date 03-09-05

Field Team 1

Field Conditions clear/sunny

Page of

Well/Sample Number MW-40D-056

QC Sample ID NA

QC Sample Time

Purge Start Time 1054

Purge Method Rediflo 2 Bed Pump

Flow Cell Y N

Min. Purge Volume (gal)/(L) 78.17 Purge Rate (gpm)/(mLpm) 2.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
114.00	1200	12.0	7.59	15.8	46.2	3.47	29.69	0.93	9.9	-35	
114.05	1204	20.0	7.56	16.7	6.04	2.27	30.43	0.99	10.4	-32	
114.05	1208	28.0	7.57	17.1	1.83	1.65	30.58	1.01	10.6	-24	
114.05	1212	36.0	7.58	17.1	1.82	1.47	30.63	1.01	10.6	-18	
114.05	1216	44.0	7.58	17.2	0.86	1.79	30.80	1.02	10.7	-19	
114.03	1220	52.0	7.59	17.2	0.80	1.56	30.77	1.02	10.7	-19	
114.04	1224	60.0	7.59	17.2	0.63	1.61	30.88	1.02	10.6	-19	
114.04	1228	68.0	7.59	17.2	0.37	1.47	30.86	1.02	10.7	-18	
114.03	1233	78.0	7.59	17.2	0.48	1.49	30.93	1.02	10.7	-19	
112.67	1151		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	X	X	Y	
Are measurements consistent with previous?							NA				

Sample Time 1135 Sample Location: pump tubing X well port spigot bailer other

Comments: HORIBA TOT SAFETY# 056931
HACH RSE# 2005-01C

Initial Depth to Water (ft BTOC): 112.74

WD (Well Depth - from table) ft b/c (266.02)

SWH (Standing Water Height) = WD-Initial Depth 153.28

D (Volume as per diameter) 2" = 0.47, 4" = 0.66, 1" = 0.04 2"

One Casing Volume = D*SWH 26.05

Three Casing Volumes = 78.17

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	

Comments: NO TRANSDUCER

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-11-05Field Team 1 Field Conditions clear/sunnyPage of Well/Sample Number MW-41D-056QC Sample ID MW-41D-EG-056QC Sample Time 1000Purge Start Time 0855Purge Method 2nd Floor Boat PumpFlow Cell (Y) / NMin. Purge Volume (gal)/(L) 144.81 Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
27.50	0900	15	8.24	17.8	6.97	3.47	28.55	1.06	11.1	-288	
27.59	0906	33	7.97	22.2	108	1.80	29.08	1.35	13.8	-260	
27.59	0912	51	7.91	22.9	5.61	1.23	29.34	1.40	14.2	-241	
27.59	0918	69	7.90	22.8	10.95	0.97	29.54	1.39	14.2	-241	
27.59	0924	87	7.90	22.8	0.61	0.82	29.61	1.39	14.1	-242	
27.59	0930	105	7.90	22.9	0.62	0.75	29.41	1.39	14.2	-243	
27.58	0936	123	7.90	22.7	0.42	0.67	29.65	1.38	14.1	-244	
27.58	0940	141	7.90	22.7	0.41	0.64	29.56	1.38	14.1	-244	
27.58	0942	147	7.90	22.7	0.63	0.62	29.61	1.38	14.1	-244	
26.45	0947		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
26.49	1001										
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 0944 Sample Location: pump tubing X well port spigot baller other Comments: HORIBA TOT-SAFETY#056931
HACH PGE#2005-01CInitial Depth to Water (ft BTOC): 26.25WD (Well Depth - from table) ft b/c 310.20SWH (Standing Water Height) = WD-Initial Depth 283.95

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 48.27Three Casing Volumes = 144.81Color: clear, grey yellow, brown, black, cloudy, greenMeasure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Comments: <u>NO TRANSDUCER</u>					

Odor: none sulphur organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-11-05Field Team 1 Field Conditions clear/sunnyPage of Well/Sample Number MW-41M-056

QC Sample ID

NAQC Sample Time Purge Start Time 1008Purge Method Redi Flow ~~Bed Pump~~Flow Cell: Y NMin. Purge Volume (gal)/(L) 85Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
26.98	1012	12	7.61	5.65	9.64	4.05	29.20	0.30	3.57	-32	
27.03	1016	24	7.66	16.0	17.3	1.83	29.70	0.94	9.9	-55	
27.03	1020	36	7.72	16.2	4.43	1.28	29.88	0.95	10.0	-64	
27.03	1024	48	7.74	16.2	0.74	1.08	29.82	0.95	10.0	-66	
27.03	1028	60	7.74	16.2	0.38	0.95	29.89	0.95	10.0	-67	
27.03	1032	72	7.74	16.2	0.28	0.89	29.95	0.95	10.0	-67	
27.03	1036	84	7.74	16.1	0.31	0.83	29.92	0.95	10.0	-66	
27.03	1038	90	7.74	16.1	0.20	0.82	29.95	0.95	10.0	-66	
26.50	1053										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?							NA				

Sample Time 1040 Sample Location: pump tubing X well port spigot bailer other Comments: HONIBA TGT-SAFETY #056931
HACH PGE 2005-Q1CInitial Depth to Water (ft BTWC): 26.14WD (Well Depth - from table) ft btc 192.35SWH (Standing Water Height) = WD-Initial Depth 166.21

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 28.25Three Casing Volumes = 84.76

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer		Time of Removal	
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW	Time of Reinstallation
	<u> </u>	<u> </u>		<u> </u>	<u> </u>

Comments: NO TRANSDUCER

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 03-10-05Field Team 1 Field Conditions clear / sunnyPage of Well/Sample Number MW-41S-056QC Sample ID NAQC Sample Time Purge Start Time 1451Purge Method rediflo 2 ~~Bed Pump~~Flow Cell ☒ NMin. Purge Volume (gal)/(L) 17.69 Purge Rate (gpm)/(mLpm) 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv	Comments (See description below)
27.08	1453	4	8.00	4.89	27.9	10.26	29.87	0.24	3.00	148	
27.09	1455	8	7.77	4.96	27.09	4.20	29.66	0.26	3.19	140	
27.09	1459	16	7.79	5.08	163	2.83	29.60	0.27	3.20	122	
27.09	1503	24	7.81	5.08	19.0	2.46	29.49	0.27	3.20	112	
27.09	1507	32	7.82	5.08	9.60	2.54	29.47	0.27	3.20	95	
27.09	1510	38	7.83	5.08	5.56	2.49	29.47	0.27	3.20	91	
27.09	1512	42	7.83	5.08	4.05	2.46	29.46	0.27	3.20	87	
26.89	1518										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	NA	<u>✓</u>	<u>✓</u>	<u>✓</u>	
Are measurements consistent with previous?							NA				

Sample Time 1513 Sample Location: pump tubing ☒ well port spigot bailer other Comments: HORIBA TOT-SAFETY # 056931
HACH PGE # 2005-01CInitial Depth to Water (ft BTOW): 26.87WD (Well Depth - from table) ft btc 61.56SWH (Standing Water Height) = WD-Initial Depth 34.69

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)

One Casing Volume = D*SWH 5.89Three Casing Volumes = 17.69Color: ☒ grey, yellow, brown, black, cloudy, greenMeasure Point: ☒ Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	
			Final DTW	Time of Reinstallation

Comments: NO TRANSDUCEROdor: ☒ none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 03-11-05Field Team 1 Field Conditions clear/sunnyPage of Well/Sample Number Park Moabi-056

QC Sample ID

NAQC Sample Time Purge Start Time 1159Purge Method Ded. Pump Flow Cell ☒ Y / ☐ NMin. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1200	—	7.73	1.34	6.8	4.45	26.26	0.06	0.86	0.0	
—	1202	—	7.72	1.33	6.3	3.89	26.19	0.06	0.85	-56	
✓	1203	—	7.72	1.33	6.6	3.65	26.17	0.06	0.85	-59	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1205 Sample Location: pump tubing well port X spigot bailer other Comments: Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: WD (Well Depth - from table) ft btc (252)SWH (Standing Water Height) = WD-Initial Depth D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 One Casing Volume = D*SWH Three Casing Volumes =

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock IM2Sampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/9/05Field Team DC / SDField Conditions Sunny / 80'sPage 1 of 1Well/Sample Number TW-2D-056

QC Sample ID

NA

QC Sample Time

Purge Start Time

Purge Method

Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
77.60											NO Parameters Taken
											Equipment not working properly.
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1410 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 77.60

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: 10769Beach Meter

WD (Well Depth - from table) ft bto (150)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (6 in)

One Casing Volume = D*SWH

Three Casing Volumes =

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Final DTW	
				Time of Reinstallation

Comments: _____

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock IM2Job Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/10/05 3/11/05Field Team 2Field Conditions Sunny 80°Page 1 of 1Well/Sample Number TW-2S-056QC Sample ID NA

QC Sample Time

Purge Start Time 1255

Purge Method

Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm) 6 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
48.79	1405	60	7.81	4.22	1.51	7.30	29.34	0.2	2.8	65	
48.80	1410	90	7.72	6.00	1.21	7.10	29.33	0.3	4.1	74	
48.82	1415	120	7.68	32.8	0.73	6.23	29.33	2.2	72	81	
48.82	1420	150	7.66	62.9	0.42	5.42	29.30	4.0	39	85	
48.83	1425	180	7.66	74.0	0.35	4.94	29.29	4.0	48	88	
48.84	1430	210	7.65	83.1		4.83	29.30	4.0	50	90	
46.80	1437										
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1435 Sample Location: pump tubing X well port _____ spigot _____ baller _____ other Horiba C-101626Comments: ATCH PGE 2005-01Initial Depth to Water (ft BTOC): 47.59 ^{SPD} 47.65

WD (Well Depth - from table) ft btc (90)

SWH (Standing Water Height) = WD-Initial Depth 42.41D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (6 in) 1.47One Casing Volume = D*SWH 62.3Three Casing Volumes = 187Measure Point: Well TOC Steel CasingWATER LEVEL METER SERIAL NUMBER: Heron 11880

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation
<u>12:25</u>	<u>47.59</u>				
Comments:					

Color: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/7/05Field Team 3Field Conditions Sunny, 10 mphPage 1 of 1Well/Sample Number R-27-056CON-056QC Sample ID NAQC Sample Time NAPurge Start Time NAPurge Method NA Ded. Pump NAgrab sample

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity <u>(mS/cm)</u>	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
<u>NA</u>	<u>1445</u>	<u>NA</u>	<u>8.56</u>	<u>1.21</u>	<u>3.06</u>	<u>11.85</u>	<u>17.02</u>	<u>0.1</u>	<u>2.8</u>	<u>94</u>	
<u>NA</u> Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1445 Sample Location: pump tubing well port NA spigot NA bailer NA other pull + cupComments: lost cup off of pole @ 1445 - taped new cup on end to sample.
boat went by @ 1450 + stirred up water - now cloudy adjacent to shore.Initial Depth to Water (ft BTOW): NAMeasure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: NAWD (Well Depth - from table) ft btc NASWH (Standing Water Height) = WD-Initial Depth NAD (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 NAOne Casing Volume = D*SWH NAThree Casing Volumes = NAColor: clear, grey, yellow, brown, black, cloudy, greenOdor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPSampling Event 2005-056-Q1Job Number 316363.GM.02Date 3/8/05Field Team DC/BSField Conditions Sunny/WarmPage 1 of 1Well/Sample Number I-3-056QC Sample ID NA

QC Sample Time _____

Purge Start Time _____

Purge Method _____

Ded. Pump _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
<u>9.025</u> <u>BGS</u>	<u>0915</u>	<u>-</u>	<u>4.48</u>	<u>1.17</u>	<u>1.88</u>	<u>8.98</u>	<u>15.11</u>	<u>0.05</u>	<u>0.75</u>	<u>191</u>	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 0915 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other CUP

Comments: _____

Initial Depth to Water (ft BTOC): _____

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW

Comments: _____

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Purge Rate (gpm)/(mLpm)

Sample Time 1335 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other pole + cup
Comments: _____

Page 2 of 19

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/7/05Field Team 3Field Conditions Sunny, 15 mph WindPage 1 of 1Well/Sample Number CON-056R-27-056

QC Sample ID

NA

QC Sample Time

NAPurge Start Time NAPurge Method /Ded. Pump /grab sampleFlow Cell: Y / (N)Min. Purge Volume (gal)/(L) /Purge Rate (gpm)/(mLpm) /

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity <u>(mS/cm)</u>	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
<u>NA</u>	<u>1405</u>	<u>NA</u>	<u>8.18</u>	<u>1.06</u>	<u>8.74</u> (Hack)	<u>11.43</u>	<u>18.13</u>	<u>/</u>	<u>/</u>	<u>1.02</u>	<u>back 250 ml of water on large mouth bottle - used peristaltic to field filter into istone (45 micron filter) back at car (sample on ice ~ 5 min before filtered)</u>
<u>NA</u>			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1405

Sample Location:

pump tubing /well port /spigot /bailer /other pole + cup

Comments:

Initial Depth to Water (ft BTOC): NA

WD (Well Depth - from table) ft btc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04

One Casing Volume = D*SWH

Three Casing Volumes =

Color: clear, grey, yellow, brown, black, cloudy, green

Measure Point:

Well TOC

Steel Casing

WATER LEVEL METER SERIAL NUMBER:

NA

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation

Comments:

Odor: none, sulphur, organic, otherSolids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Sampling Event 2005-056-Q1Date 3/8/05Field Team 4 DC/BSField Conditions Sunny/WarmPage 1 of 1Well/Sample Number R-28-056

QC Sample ID

NA

QC Sample Time

Purge Start Time

Purge Method

Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1005	—	5.04	1.18	1.91	9.40	16.75	0.05	0.75	168	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1005 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other Cup

Comments: _____

Initial Depth to Water (ft BTOC): _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Initial DTW / Before Removal		If Transducer		Time of Removal
Time	Initial DTW	Approx. 5 min After Reinstallation	Time	Final DTW
Comments: _____				

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 316363.GM.02
Field Team DC/BS Field Conditions Sunny/10

Sampling Event 2005-056-Q1
Date 3-8-05
Page 1 of 1

Well/Sample Number	RRB-056
--------------------	---------

QC Sample ID	NA
--------------	----

QC Sample Time _____

Purge Start Time _____

Purge Method _____ Ded. Pump _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
											Pictures taken by Shawn Duffy
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time: _____ Sample Location: _____ pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: NO SAMPLE COLLECTED

Initial Depth to Water (ft BTOC): _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 _____

One Casing Volume = $D \cdot SWH$ _____

Three Casing Volumes = _____

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team ADC/BSField Conditions Sunny/WarmSampling Event 2005-056-Q1Date 3/8/05Page 1 of 1Well/Sample Number NR-1-056QC Sample ID NA

QC Sample Time _____

Purge Start Time _____

Purge Method _____

Ded. Pump _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
-	1115	-	5.33	1.17	1.56	7.90	16.23	0.05	0.75	156	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1115 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other Cup

Comments: _____

Initial Depth to Water (ft BTOC): _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft b/c _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Initial DTW / Before Removal		If Transducer	
		Approx. 5 min After Reinstallation	Time of Removal
Time	Initial DTW	Time	Final DTW
Comments: _____			

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP

Job Number 316363.GM.02

Field Team DC/BSField Conditions Sunny/Warm

Sampling Event 2005-056-Q1

Date 3/8/05Page 1 of 1

Well/Sample Number NR-2-056

QC Sample ID NA

QC Sample Time

Purge Start Time

Purge Method

Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
-	1130	-	5.28	1.16	1.39	10.74	15.89	0.05	6.75	144	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1130 Sample Location: pump tubing well port spigot bailer other Cup

Comments:

Initial Depth to Water (ft BTOW):

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft btc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1" = 0.04

One Casing Volume = D*SWH

Three Casing Volumes =

Initial DTW / Before Removal				If Transducer	
Time		Approx. 5 min After Reinstallation		Time of Removal	
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMPJob Number 316363.GM.02Field Team * DC / BSField Conditions Sunny / WarmSampling Event 2005-056-Q1Date 3/8/05Page 1 of 1Well/Sample Number NR-3-056QC Sample ID NA

QC Sample Time _____

Purge Start Time _____

Purge Method _____

Ded. Pump _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
—	1145	—	5.28	1.16	1.71	9.26	15.70	0.05	0.74	152	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1145 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other CO₂

Comments: _____

Initial Depth to Water (ft BTOC): _____

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2" = 0.17, 4" = 0.66, 1" = 0.04 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	Time of Reinstallation

Comments: _____

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

TURNAROUND TIME 10 Days
DATE 3/9/05 PAGE 1 OF 1

SAMPLE CONDITIONS			
RECEIVED	COOL ☐	WARM ☐	____ °F
CUSTODY SEALED	YES ☐	NO ☐	
SPECIAL REQUIREMENTS:			

Y. DESDAIL LABORATORIES, INC.

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CHAIN OF CUSTODY RECORD

☒ TURNAROUND TIME

5a

DATE 3/7/05

PAGE 1 OF 1

METHODS

NUMBER OF CONTAINERS

COMMENTS

COMPANY CH2M Hill
PROJECT NAME Topock GMP
PHONE 510-587-7510 FAX 510-622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland CA 94612
P.O. NUMBER 316263-GM.02
SAMPLERS (SIGNATURE) [Signature]

CDT - 745 456 160
 CT - 60108 466 160
 EC - 120.1
 PH 150.1

[illegible]

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ _____ °F

CUSTODY SEALED YES ☒ NO ☐

SPECIAL REQUIREMENTS:



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 1 Days

DATE 3-7-05 PAGE 1 OF 1

COMPANY CH2M HILL				Hexavalent Chromium (7189) - Field Filtered Hexavalent Chromium (7199) - Lab Filtered Hexavalent Chromium (7196A) - Field Filtered Hexavalent Chromium (7196A) - Lab Filtered Hexavalent Chromium (218.6) - Lab Filtered Total Dissolved Chromium (6010B) - Field Filtered Total Dissolved Chromium (6010B) - Lab Filtered Mercury (7470A) - Field Filtered pH (150.1) Specific Conductance (120.1) TDS (160.1) Metals (200.7) - Lab Filtered NUMBER OF CONTAINERS														COMMENTS	
PROJECT NAME PG&E Topock GWM																			
PHONE (510) 251-2888 FAX (510) 622-7086																			
ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612																			
P.O. NUMBER 316363.GM.02 TEAM 3																			
SAMPLERS (SIGNATURE) <i>[Signature]</i>																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7189) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS		
CON-056	3/7/05	1445	Surfacewater	x					x							2			
R-22-056	3/7/05	1335	Surfacewater	x					x							2			
R-27-056	3/7/05	1405	Surfacewater	x					x							2			
																6	TOTAL NUMBER OF CONTAINERS		

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished) <i>[Signature]</i>	Printed Name Dan Ciesy	Company/ Agency CH2M Hill	Date/ Time 1539/3-7-05	RECEIVED	COOL ☐ WARM ☐ °F
Signature (Received) <i>[Signature]</i>	Printed Name Sylvia Phillips	Company/ Agency Truesdail	Date/ Time 3-7-05 15139	CUSTODY SEALED	YES ☐ NO ☐
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE 3/7/05 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
O. NUMBER 316363.GM.02 TEAM X3
AMPLERS (SIGNATURE) [Signature]

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
CON-056	3/7/05	1445	Surface water							X	X				2	1 PLO
R-22-056	3/7/05	1335	"							X	X				2	1 KLO
R-27-056	3/7/05	1405	"							X	X	X			2	

4 TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>[Signature]</u>	<u>Dan Cichy</u>	<u>CMAA Hill</u>	<u>3-7-05 15:39</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
<u>[Signature]</u>	<u>Sylvia Ph...</u>	<u>Truesdail</u>	<u>3-7-05 15:39</u>
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE 3/7/05 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

O. NUMBER 316363.GM.02 TEAM X3

AMPLERS (SIGNATURE) Don Smith

SAMPLE I.D.	DATE	TIME	DESCRIPTION
-------------	------	------	-------------

R-27-056	3/7/05	1405	surface water
----------	--------	------	---------------

Chloride, Sulfate, Nitrate-N (300.0)
Alkalinity (310.1)
Ca, Mg, K, Na, Br, B (60108) - Field Filtered

NUMBER OF CONTAINERS

COMMENTS

3	TOTAL NUMBER OF CONTAINERS
---	----------------------------

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Dan C. [Signature]	CH2M Hill	7-7-05 1539
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Sylvia Phillips	Truesdell	7-7-05 1535
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ _____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TURNAROUND TIME 10 Days
DATE 3/7/05 PAGE 1 OF 1

SAMPLE CONDITIONS			
RECEIVED	COOL ☐	WARM ☐	_____ °F
CUSTODY SEALED	YES ☐	NO ☐	
SPECIAL REQUIREMENTS:			



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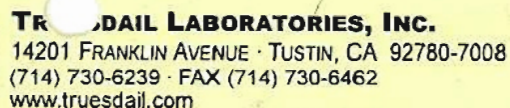
CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME _____ Days
DATE 3/7/05 PAGE 1 OF 1

COMPANY <u>CH2M HILL</u>				Hexavalent Chromium (7199) - Field Filtered Hexavalent Chromium (7199) - Lab Filtered Hexavalent Chromium (7196A) - Field Filtered Hexavalent Chromium (7196A) - Lab Filtered Hexavalent Chromium (218.6) - Lab Filtered Total Dissolved Chromium (6010B) - Field Filtered Total Dissolved Chromium (6010B) - Lab Filtered Mercury (7470A) - Field Filtered pH (150.1) Specific Conductance (120.1) TDS (160.1) Metals (200.7) - Lab Filtered NUMBER OF CONTAINERS												COMMENTS			
PROJECT NAME <u>PG&E Topock GWM</u>																			
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																			
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																			
P.O. NUMBER <u>316363.GM.02</u> TEAM <u>LL</u> <u>Juan OSORIO</u>																			
SAMPLERS (SIGNATURE) <u>[Signature]</u>																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION																
<u>MW-24RR-056</u>	<u>No Sample</u>																<u>well water</u>		
<u>MW-84B-056</u>	<u>3/7/05</u>	<u>11:14</u>	<u>GRD H2O</u>															<u>3</u>	<u>pH, cond shared</u>
<u>MW-94-056</u>	<u>3/7/05</u>	<u>11:40</u>	<u>" "</u>															<u>3</u>	<u>pH, cond shared</u>
<u>MW-24A-056</u>	<u>3/7/05</u>	<u>11:55</u>	<u>" "</u>															<u>3</u>	<u>pH, cond shared</u>
<u>MW-19-056</u>	<u>3/7/05</u>	<u>14:10</u>	<u>" "</u>															<u>3</u>	<u>pH, cond shared</u>
																<u>12</u>			
																		TOTAL NUMBER OF CONTAINERS	

CHAIN OF CUSTODY SIGNATURE RECORD					SAMPLE CONDITIONS	
Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>John Lueck</u>	Company/Agency <u>CH2MHILL</u>	Date/Time <u>3/7/05 15:00</u>	RECEIVED	COOL ☐	WARM ☐ °F
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3-7-05 15:00</u>	CUSTODY SEALED	YES ☐	NO ☐
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:		
Signature (Received)	Printed Name	Company/Agency	Date/Time			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time			
Signature (Received)	Printed Name	Company/Agency	Date/Time			



☐ TURNAROUND TIME 5 Days Fax
DATE 3/8/05 PAGE 1 OF 1

METHODS

[illegible]

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	9	TOTAL NUMBER OF CONTAINERS
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SAMPLE CONDITIONS	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	RECEIVED COOL ☐ WARM ☐ °F	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED YES ☐ NO ☐	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 24 hrs Days

DATE 3/8/05 PAGE 1 OF 1

COMPANY <u>CH2M HILL</u>				Hexavalent Chromium (7199) - Field Filtered Hexavalent Chromium (7199) - Lab Filtered Hexavalent Chromium (7196A) - Field Filtered Hexavalent Chromium (7196A) - Lab Filtered Total Dissolved Chromium (2186) - Lab Filtered Total Dissolved Chromium (6010B) - Field Filtered Mercury (7470A) - Field Filtered pH (150.1) Specific Conductance (120.1) TDS (160.1) Metals (200.7) - Lab Filtered NUMBER OF CONTAINERS													COMMENTS		
PROJECT NAME <u>PG&E Topock GWM</u>																			
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																			
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																			
P.O. NUMBER <u>316363.GM.02</u> TEAM _____																			
SAMPLERS (SIGNATURE) <u>[Signature]</u>																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION																
MW-27-060-056	3/4/05	935	GW		X					X								2	
MW-27-085-056	3/4/05	1031	"		X					X								2	
MW-34-100-056	3/4/05	1300	"		Y					X								2	
MW-34-080-056	3/8/05	1415	"		X					X								2	
																		8	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>Matt Aguirre</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/8/05 15:12</u>	RECEIVED	COOL ☐ WARM ☐ °F
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3-8-05 15:12</u>	CUSTODY SEALED	YES ☐ NO ☐
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/Agency	Date/Time		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time		
Signature (Received)	Printed Name	Company/Agency	Date/Time		

DATE 3/4/05 PAGE 1 OF 1

SPECIAL REQUIREMENTS:

ZymaX envirotechnology, Inc.
 71 Zaca Ln. San Luis Obispo, CA 93401
 phone: (805) 781-3686 ext. 118
 Stephanie Dollahite

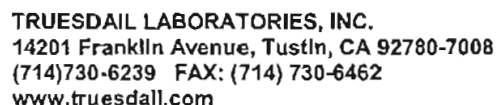
CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
 DATE 3/8/05 PAGE 1 OF 1

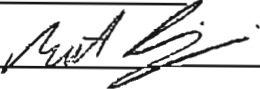
COMPANY <u>CH2M HILL</u>				Oxygen 18 & Deuterium (CF-IRMS) NUMBER OF CONTAINERS												COMMENTS				
PROJECT NAME <u>PG&E Topock GWM</u>																				
PHONE <u>(510) 251-2888</u>		FAX <u>(510) 622-7086</u>																		
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																				
P.O. NUMBER <u>316363.GM.02</u>				TEAM _____																
SAMPLERS (SIGNATURE) <u>[Signature]</u>																				
SAMPLE I.D.	DATE	TIME	DESCRIPTION																	
<u>MW-27-020-056</u>	<u>3/8/05</u>	<u>1115</u>	<u>GW</u>	<u>X</u>																
<u>MW-34-080-056</u>	<u>3/8/05</u>	<u>1415</u>	<u>GW</u>	<u>X</u>																
																<u>2</u>	TOTAL NUMBER OF CONTAINERS			

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>Matt Rigby</u>	Company/ Agency <u>CH2M HILL</u>	Date/ Time <u>3/8/05 1512</u>	RECEIVED	COOL ☐ WARM ☐ °F _____
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia Phillips</u>	Company/ Agency <u>Truesdale</u>	Date/ Time <u>3-8-05 15:12</u>	CUSTODY SEALED	YES ☐ NO ☐
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		



[2005-056-Q1]

DATE 2/8/05 PAGE 1 OF 1

COMPANY CH2M HILL PROJECT NAME PG&E Topock GWM PHONE (510) 251-2888 FAX (510) 622-7086 ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612 P.O. NUMBER 316363.GM.02 TEAM SAMPLERS (SIGNATURE) 				Hexavalent Chromium (7199) - Field Filtered Hexavalent Chromium (7199) - Lab Filtered Hexavalent Chromium (7196A) - Field Filtered Hexavalent Chromium (7196A) - Lab Filtered Total Dissolved Chromium (218.6) - Lab Filtered Total Dissolved Chromium (6010B) - Field Filtered Mercury (7470A) - Field Filtered pH (150.1) Specific Conductance (120.1) TDS (160.1) Metals (200.7) - Lab Filtered NUMBER OF CONTAINERS												COMMENTS		
SAMPLE I.D.	DATE	TIME	DESCRIPTION															
MW-27-020-036	3/8/05	1115	GW		X					X							2	
																	2	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>Matt B.</i>	<i>Matt B.</i>	<i>CH2M HILL</i>	<i>3/4/05</i>
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>Sylvia Phillips</i>	<i>Sylvia Phillips</i>	<i>Truesdail</i>	<i>3.8.05</i> <i>15:12</i>
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ _____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:



TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714) 730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME _____ Days
DATE 1 PAGE 1 OF 2

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM 1
SAMPLERS (SIGNATURE) John Sued

SAMPLE I.D. DATE TIME DESCRIPTION

				Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (8010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	T, +1/2 22 M202 FF 11102	NUMBER OF CONTAINERS	COMMENTS
MW-24BR-056	3/8/05	0912	End H2O	1				1	1	1	1	1				3	pH + sp shared
MW-23-056	3/8/05	0953	Ground H2O	1				1	1	1	1	1				3	pH + sp shared
MW-21-056	3/8/05	10:48	" "	1				1	1	1	1	1				3	pH + sp shared
MW-26-056	3/8/05	11:42	" "			1		1	1	1	1	1				3	pH + sp shared, TDS (1)
MW-95-056	3/8/05	12:27	" "			1		1	1	1	1	1				4	
MW-11-056	3/8/05	13:21	" "			1		1	1	1	1	1		1		5	pH, cond shared
MW-10-056	3/8/05	14:06	" "			1		1	1	1	1	1		1		5	pH, cond shared
MW-90-056	3/8/05	14:30	" "			1		1	1	1	1	1		1		5	pH, cond shared
																31	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>John Sued</u>	<u>John Sued</u>	<u>CH2M HILL</u>	<u>2/8/05 15:20:30</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

Convert to next page

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐
SPECIAL REQUIREMENTS:

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME _____ Days
DATE 3/8/05 PAGE 1 OF 1

COMPANY <u>CH2M HILL</u>				Chloride, Sulfate, Nitrate-N (300.0) Alkalinity (310.1) Ca, Mg, K, Na, Br, B (6010B) - Field Filtered NUMBER OF CONTAINERS																COMMENTS					
PROJECT NAME <u>PG&E Topock GWM</u>																									
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																									
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																									
P.O. NUMBER <u>316363.GM.02</u> TEAM <u>1</u>																									
SAMPLERS (SIGNATURE) <u>John Lued</u>																									
SAMPLE I.D.	DATE	TIME	DESCRIPTION	Chloride	Sulfate	Nitrate-N	Alkalinity	Ca	Mg	K	Na	Br	B											NUMBER OF CONTAINERS	COMMENTS
MW-26-056	3/8/05	11:42	Ground H ₂ O	1	1	1												3							
MW-95-056	3/8/05	12:27	" "	1	1	1												3							
																		6	TOTAL NUMBER OF CONTAINERS						

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished) <u>John Lued</u>	Printed Name <u>John Lued</u>	Company/Agency <u>CH2M HILL</u>	Date/Time <u>3/8/05 1620</u>	RECEIVED	COOL ☐ WARM ☐ °F
Signature (Received) <u>Sylvia Phillips</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truwest</u>	Date/Time <u>3-8-05 1520</u>	CUSTODY SEALED	YES ☐ NO ☐
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/Agency	Date/Time		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time		
Signature (Received)	Printed Name	Company/Agency	Date/Time		

SPECIAL REQUIREMENTS:

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE 3/8/05 PAGE 1 OF 1

COMPANY <u>CH2M HILL</u>				Chloride, Sulfate, Nitrate-N (300.0) Alkalinity (310.1) Ca, Mg, K, Na, Br, B (60108) - Field Filtered NUMBER OF CONTAINERS																COMMENTS				
PROJECT NAME <u>PG&E Topock GWM</u>																								
PHONE <u>(510) 251-2888</u>		FAX <u>(510) 622-7086</u>																						
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																								
P.O. NUMBER <u>316363.GM.02</u>		TEAM <u>3</u>																						
SAMPLERS (SIGNATURE) <u>Broad Shearer</u>																								
SAMPLE I.D.	DATE	TIME	DESCRIPTION																					
R-27-056			Surfacewater	x	x	x																		
R-28-056	<u>3/8/05</u>	<u>10:05</u>	Surfacewater	x	x	x																		
																						<u>3</u>	<u>BS</u>	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD					SAMPLE CONDITIONS	
Signature (Relinquished) <u>Broad Shearer</u>	Printed Name <u>Broad Shearer</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/8/05/1540</u>	RECEIVED	COOL ☐	WARM ☐ °F
Signature (Received) <u>Sylvia Phillips</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Torrance</u>	Date/Time <u>3-8-05/1540</u>	CUSTODY SEALED	YES ☐	NO ☐
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:		
Signature (Received)	Printed Name	Company/Agency	Date/Time			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time			
Signature (Received)	Printed Name	Company/Agency	Date/Time			



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 5 Days

DATE 3/8/05 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM 3
SAMPLERS (SIGNATURE) Brad Shearer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
1-3-056	3/8/05	09:15	Surface Water	X				X							2	
NR-1-056	3/8/05	11:15		X				X							2	
NR-2-056	3/8/05	11:30		X				X							2	
NR-3-056	3/8/05	11:45		X				X							2	
R-28-056	3/8/05	10:05		X				X							2	
RRB-056			↓	X				X							2	BS No Water to sample
															10	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>Brad Shearer</u>	<u>Brad Shearer</u>	<u>CH2M HILL</u>	<u>3/8/05/1540</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
<u>Sylvia Phillips</u>	<u>Sylvia Phillips</u>	<u>Truesdail</u>	<u>3-8-05 15:40</u>
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days

DATE 3/8/05 PAGE 1 OF 1

COMPANY	CH2M HILL															
PROJECT NAME	PG&E Topock GWM															
PHONE	(510) 251-2888	FAX	(510) 622-7086													
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612															
P.O. NUMBER	316363.GM.02	TEAM	<u>3</u>													
SAMPLERS (SIGNATURE)	<u>Brian Stoen</u>															
SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7199A) - Lab Filtered	Hexavalent Chromium (7199A) - Field Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (60108) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
I-3-056	3/8/05	09:15	Surface Water							X	X				2	BS
NR-1-056	3/8/05	11:15													2	
NR-2-056	3/8/05	11:30													2	
NR-3-056	3/8/05	11:45													2	
R-28-056	3/8/05	10:05										X			3	2
RRB 056															2	BS No Water to sample
															BS 6	7
															TOTAL NUMBER OF CONTAINERS	

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	RECEIVED	COOL ☐ WARM ☐ °F
<u>Brian Stoen</u>	<u>Brian Stoen</u>	<u>CH2M HILL</u>	<u>3/8/05 15:40</u>		
Signature (Received)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED	YES ☐ NO ☐
<u>Sylvia Phillips</u>	<u>Sylvia Phillips</u>	<u>Truesdail</u>	<u>3-8-05 15:40</u>		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/Agency	Date/Time		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time		
Signature (Received)	Printed Name	Company/Agency	Date/Time		

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CHAIN OF CUSTODY RECORD☐ TURNAROUND TIME 10 DAYDATE 3/9/05 PAGE 1 OF 1**METHODS**

COMPANY <u>CH2M HILL</u>				METHODS												NUMBER OF CONTAINERS	COMMENTS	
PROJECT NAME <u>PG&E Topock GWM</u>																		
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																		
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland CA 94612</u>																		
P.O. NUMBER <u>316363 GM.02</u>																		
SAMPLERS (SIGNATURE) <u>Kenneth W. Deen</u>																		
SAMPLE I.D.	DATE	TIME	DESCRIPTION	pH (150.1)	Specific Conductance (120.1)													
MW-36-020-056	3/9/05	0959	GROUNDWATER	X	X												1	
MW-36-090-056	3/9/05	1041	GROUNDWATER	X	X												1	
MW-39-040-056	3/9/05	1142	GROUNDWATER	X	X												1	
MW-39-050-056	3/9/05	1218	GROUNDWATER	X	X												1	
MW-39-060-056	3/9/05	1255	"	X	X												1	
MW-39-070-056	3/9/05	1328	GROUNDWATER	X	X												1	
MW-96-056	3/9/05	1328	GROUNDWATER	X	X												1	
MW-39-080-056	3/9/05	1419	GROUNDWATER	X	X												1	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>Kenneth W. Deen</u>	Printed Name <u>Kenneth W. Deen</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/9/05 1530</u>	TOTAL NUMBER OF CONTAINERS <u>8</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SAMPLE CONDITIONS RECEIVED COOL ☐ WARM ☐ °F
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED YES ☐ NO ☐
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/Agency	Date/Time	

SPECIAL REQUIREMENTS:

TURNAROUND TIME _____ Days

DATE _____ PAGE _____ OF _____

SPECIAL REQUIREMENTS:

TURNAROUND TIME _____ Days

DATE _____ PAGE _____ OF _____

SPECIAL REQUIREMENTS:


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CHAIN OF CUSTODY RECORD
☐ TURNAROUND TIME 10 bus

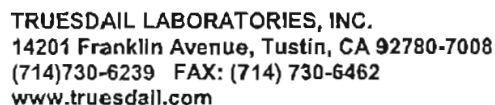
 DATE 3/9/05 PAGE 1 OF 1
METHODS

COMPANY <u>CH2M HILL</u>				METHODS												NUMBER OF CONTAINERS	COMMENTS		
PROJECT NAME <u>PGA E Topock GWM</u>																			
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																			
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u>																			
P.O. NUMBER <u>316363 GM.02</u>																			
SAMPLERS (SIGNATURE) <u>Kenneth W. Norman</u>																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION	pH (150.1)	Specific Conductance (120.1)														
MW-36-020-056	3/9/05	0959	GROUNDWATER	X	X													1	
MW-36-090-056	3/9/05	1041	GROUNDWATER	X	X													1	
MW-39-040-056	3/9/05	1142	GROUNDWATER	X	X													1	
MW-39-050-056	3/9/05	1218	GROUNDWATER	X	X													1	
MW-39-060-056	3/9/05	1255	"	X	X													1	
MW-39-070-056	3/9/05	1328	GROUNDWATER	X	X													1	
MW-96-056	3/9/05	1328	GROUNDWATER	X	X													1	
MW-39-080-056	3/9/05	1419	GROUNDWATER	X	X													1	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>Kenneth W. Norman</u>	Printed Name <u>Kenneth W. Norman</u>	Company/ Agency <u>CH2M Hill</u>	Date/ Time <u>3/9/05 1530</u>	8 PM TOTAL NUMBER OF CONTAINERS
Signature (Received) <u>Sylvia Phillips</u>	Printed Name <u>Sylvia Phillips</u>	Company/ Agency <u>Truesdail</u>	Date/ Time <u>3-9-05 1530</u>	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SAMPLE CONDITIONS RECEIVED COOL ☐ WARM ☐ °F CUSTODY SEALED YES ☐ NO ☐
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

SPECIAL REQUIREMENTS:



[2005-056-Q1]

TURNAROUND TIME 10 Days

DATE PAGE OF

COMPANY CH2M HILL PROJECT NAME PG&E Topock GWM PHONE (510) 251-2888 FAX (510) 622-7086 ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612 P.O. NUMBER 316363.GM.02 TEAM SAMPLERS (SIGNATURE) <i>Shawn P. Duffy</i>				Hexavalent Chromium (7199) - Field Filtered Hexavalent Chromium (7199) - Lab Filtered Hexavalent Chromium (7199A) - Field Filtered Hexavalent Chromium (7196A) - Lab Filtered Hexavalent Chromium (218.6) - Lab Filtered Total Dissolved Chromium (6010B) - Field Filtered Total Dissolved Chromium (6010B) - Lab Filtered Mercury (7470A) - Field Filtered pH (150.1) Specific Conductance (120.1) TDS (160.1) Metals (200.7) - Lab Filtered NUMBER OF CONTAINERS												COMMENTS	
SAMPLE I.D.	DATE	TIME	DESCRIPTION														
TW-2D-056	3/9/05	1410				X			X		X	X					3
																3	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<i>Shawn Duffy</i>	Printed Name	Shawn Duffy	Company/ Agency	CH2M Hill	Date/ Time	3/7/05 3:40 PM
Signature (Received)	<i>Shawn Duffy</i>	Printed Name	Shawn Duffy	Company/ Agency	Truesdale	Date/ Time	3-9-05 11:15
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

SAMPLE CONDITIONS			
RECEIVED	COOL ☐	WARM ☐	°F _____
CUSTODY SEALED	YES ☐	NO ☐	
SPECIAL REQUIREMENTS:			

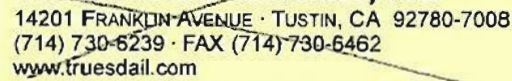
TURNAROUND TIME 10 Days
DATE 3/9/05 PAGE 1 OF 1

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL ☐ WARM ☐ _____ °F
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES ☐ NO ☐
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.				1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com				PO NUMBER: SAMPLE STORAGE				EMAX CONTROL NO. *																																																																																																																																																																																																																				
CLIENT CH2M Hill PROJECT Torrance GMD COORDINATOR M. Proulx TEL 925-595-6200 FAX EMAIL SEND REPORT TO Dr. Moore COMPANY CH2M Hill ADDRESS EMAX PM				MATRIX CODE DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste SL=Sludge SS=Soil/ Sediment WP=Wipes PP=Pure Products AR=Air O=		PRESERVATIVE CODE IC=Ice HC=HCl HN=HNO3 SH=NaOH ST=Na2S2O3 ZA=Zinc Acetate HS=H2SO4		ANALYSIS REQUIRED C1, Sulfate, NO, and Alk, Phosphate (300) Ca, Mg, K, Na, B				TAT ☐ Rush ____ hrs. ☐ Rush ____ days ☐ 7 days ☐ 14 days ☐ 21 days ☐ 30 days ☐ ____ days ☐																																																																																																																																																																																																																				
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">SAMPLE ID</th> <th colspan="3">SAMPLING</th> <th colspan="2">CONTAINER</th> <th>MATRIX CODE</th> <th>QC</th> <th colspan="8">PRESERVATIVE CODE</th> <th rowspan="2">COMMENTS</th> </tr> <tr> <th>LAB</th> <th>CLIENT</th> <th>LOCATION</th> <th>DATE</th> <th>TIME</th> <th>NO.</th> <th>SIZE</th> <th>TYPE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MW-28-025-056</td> <td>MW-28</td> <td>3/10</td> <td>935</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>MW-30-030-056</td> <td>MW-30</td> <td>3/10</td> <td>1025</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>MW-30-050-056</td> <td>MW-30</td> <td>3/10</td> <td>1105</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>MW-35-05</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>MW-34-055-056</td> <td>MW-34</td> <td>3/10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>										SAMPLE ID		SAMPLING			CONTAINER		MATRIX CODE	QC	PRESERVATIVE CODE								COMMENTS	LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE										1	MW-28-025-056	MW-28	3/10	935						X	X	X						2	MW-30-030-056	MW-30	3/10	1025						X	X	X						3	MW-30-050-056	MW-30	3/10	1105						X	X	X						4	MW-35-05																	5	MW-34-055-056	MW-34	3/10							X	X	X						6																		7																		8																		9																		10													
SAMPLE ID		SAMPLING			CONTAINER		MATRIX CODE	QC	PRESERVATIVE CODE								COMMENTS																																																																																																																																																																																																															
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Instructions										Cooler #		Temp. (°C)		Sample #s																																																																																																																																																																																																																		
SAMPLER <i>Scott King</i>										COURIER/AIRBILL																																																																																																																																																																																																																						
RELINQUISHED BY <i>Scott King</i>				Date 3/10 Time 1530		RECEIVED BY <i>John Proulx</i> 3/10/05 15:30																																																																																																																																																																																																																										

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.



Store

PAGE 1 OF 1

NUMBER OF CONTAINERS

COMPANY CH2M Hill
PROJECT NAME Barack Gmp
PHONE 925-595-6200 FAX _____
ADDRESS 155 Grand Ave Ste 1000
Oakland CA
P.O. NUMBER 316363 Gm-03
SAMPLERS (SIGNATURE) [Signature]

[illegible]

SAMPLE I.D.	DATE	TIME	DESCRIPTION
MW-28-025-05b	3/10/05	935	GW
MW-30-070-05b	3/10/05	1025	GW
MW-30-050-05b	3/10/05	1105	GW
MW-34-055-05b	3/10/05	1228	GW

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ _____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TROZSDAIL LABORATORIES, INC.

14201 FRANKLIN AVENUE · TUSTIN, CA 92780-7008

(714) 730-6239 • FAX (714) 730-6462

www.truesdail.com

CHAIN OF CUSTODY RECORD

☒ TURNAROUND TIME

5 Dr. Fox

DATE 2/9/05

PAGE 7 OF 7

METHODS

COMPANY LAZARUS
PROJECT NAME ROSE TROCK
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 GRAND AVE STE 1000
OAKLAND, CA 94612
P.O. NUMBER 316363 GP. 02
SAMPLERS (SIGNATURE) Lazarus

[illegible]

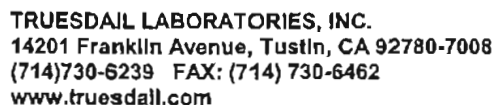
NUMBER OF CONTAINERS

COMMENTS

[illegible]

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	18	TOTAL NUMBER OF CONTAINERS
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SAMPLE CONDITIONS RECEIVED COOL ☐ WARM ☐ _____ °F CUSTODY SEALED YES ☐ NO ☐	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		



[2005-056-Q1]

Days

OF 2

COMPANY CH2M HILL

PROJECT NAME PG&E Topock GWM

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 316363.GM.02 TEAM 1

SAMPLERS (SIGNATURE) [Signature]

SAMPLE I.D.	DATE	TIME	DESCRIPTION
-------------	------	------	-------------

MW-9054	3/8/05	15:00	Ground H ₂ O
---------	--------	-------	-------------------------

Hexavalent Chromium (7199) - Field Filtered
Hexavalent Chromium (7199) - Lab Filtered
Hexavalent Chromium (7196A) - Lab Filtered
Hexavalent Chromium (7196A) - Field Filtered
Hexavalent Chromium (218.6) - Lab Filtered
Total Dissolved Chromium (6010B) - Lab Filtered
Total Dissolved Chromium (6010B) - Field Filtered
Manganic (74704) - Field Filtered
pH (150.1)
Specific Conductance (120.1)
TDS (160.1)
Metals (200.7) - Lab Filtered
NUMBER OF CONTAINERS

COMMENTS

NUMBER OF CONTAINERS

31 previous page

36	TOTAL NUMBER OF CONTAINERS
----	----------------------------

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

THRESDAIL LABORATORIES, INC.

14201 FRANKLIN AVENUE · TUSTIN, CA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

☒ TURNAROUND TIME

5 Jan

DATE _____

5/10/09

PAGE

OF

METHODS

[illegible]

**TRUESDAIL LABORATORIES, INC.**

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(714) 730-6239 · FAX (714) 730-6462

www.truesdail.com

CHAIN OF CUSTODY RECORD☐ TURNAROUND TIMEStandard

DATE

PAGE 2 OF 2**METHODS**

COMPANY <u>CAZM Hill</u>				7196A Lab Filter 7196A Field Filter 6010B CoT Lab Filter 6010B CoT Field Filter 71470A Field Filter 1016 22-6010B FF pH 150.1 SC 120.1												NUMBER OF CONTAINERS		COMMENTS	
PROJECT NAME <u>Topack Gmp</u>																			
PHONE <u>925-595-6200</u> FAX																			
ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland CA</u>																			
P.O. NUMBER <u>316363-Gm 02</u>																			
SAMPLERS (SIGNATURE) <u>[Signature]</u>																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION	METHODS												NUMBER OF CONTAINERS	COMMENTS		
mw-12-056EF	3/10/05	1514	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	2		
mw-91-056	3/10/05	1520	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	5		

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>Matt Phinney</u>	Company/Agency <u>CAZM Hill</u>	Date/Time <u>3/10/05 1530</u>	TOTAL NUMBER OF CONTAINERS
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3-10-05 1530</u>	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SAMPLE CONDITIONS RECEIVED COOL ☐ WARM ☐ °F CUSTODY SEALED YES ☐ NO ☐ SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	
Signature (Received)	Printed Name	Company/Agency	Date/Time	

**TRUESDAIL LABORATORIES, INC.**

14201 FRANKLIN AVENUE · TUSTIN, CA 92780-7008

(714) 730-6239 · FAX (714) 730-6462

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CHAIN OF CUSTODY RECORDTURNAROUND TIME StandardDATE 3/10/05PAGE 1 OF 2

METHODS

COMPANY <u>CH2M Hill</u>				7199 - Field Filter 60108 CCK Field Filter 104 150 L 2C 120 L TDS 45 7470A 7199 22 metals 60108 CCK Lab Filter 7196 A Lab Filter NUMBER OF CONTAINERS COMMENTS													
PROJECT NAME <u>Topack GMP</u>																	
PHONE <u>510-587-7510</u> FAX _____																	
ADDRESS <u>155 Grand Ave Ste 1000</u>																	
<u>Oakland CA</u>																	
P.O. NUMBER <u>316363.Gm.02</u>																	
SAMPLERS (SIGNATURE) <u>[Signature]</u>																	
SAMPLE I.D.	DATE	TIME	DESCRIPTION														
MW-28-025-056	3/10/05	935	GW			X	X	X									2
MW-30-030-056	3/10/05	1025	GW			X	X	X									2
MW-30-050-056	3/10/05	1105	GW			X	X	X									2
MW-30-030-056FF	3/10/05	1025	GW	X	X												2
MW-30-050-056FF	3/10/05	1105	GW	X	X												2
MW-34-55-056	3/10/05	1228	GW			X	X	X	X	X							4
MW-22-056	3/10/05	1315	GW			X	X				X	X					3
MW-39-100-056	3/10/05	1420	GW			X	X										1
MW-12-056	3/10/05	1514	GW	X	X	X			X	X	X	X					5
23																	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>Matt Proger</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/10/05 1530</u>	TOTAL NUMBER OF CONTAINERS
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3/10/05 1530</u>	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SAMPLE CONDITIONS
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED YES ☐ NO ☐
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/Agency	Date/Time	

RECEIVED COOL ☐ WARM ☐ °FCUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE _____ PAGE _____ OF _____

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM _____
SAMPLERS (SIGNATURE) Shawn P. Daffy

SAMPLE I.D. DATE TIME DESCRIPTION

				Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
MW-20-130-056	3/9/05	1330		X				X	X	X	X	X	X		6	
MW-20-130-056FF	3/9/05	1330			X			X							2	
MW-93-056	3/9/05	1350				X			X	X	X	X	X		5	
															14	TOTAL NUMBER OF CONTAINERS

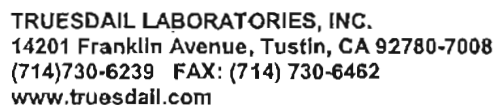
CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>Shawn P. Daffy</u>	Printed Name <u>Shawn Daffy</u>	Company/ Agency <u>CH2M HILL</u>	Date/ Time <u>3/9/05</u>
Signature (Received) <u>[Signature]</u>	Printed Name <u>Sylvia [Signature]</u>	Company/ Agency <u>Truesdail</u>	Date/ Time <u>3-9-05</u>
Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>[Signature]</u>	Company/ Agency <u>[Signature]</u>	Date/ Time <u>3-9-05</u>
Signature (Received) <u>[Signature]</u>	Printed Name <u>[Signature]</u>	Company/ Agency <u>[Signature]</u>	Date/ Time <u>[Signature]</u>
Signature (Relinquished) <u>[Signature]</u>	Printed Name <u>[Signature]</u>	Company/ Agency <u>[Signature]</u>	Date/ Time <u>[Signature]</u>
Signature (Received) <u>[Signature]</u>	Printed Name <u>[Signature]</u>	Company/ Agency <u>[Signature]</u>	Date/ Time <u>[Signature]</u>

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:



[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE 3/9/ PAGE 2 OF 2

COMPANY <u>CH2M HILL</u> PROJECT NAME <u>PG&E Topock GWM</u> PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u> ADDRESS <u>155 Grand Ave Ste 1000</u> <u>Oakland, CA 94612</u> P.O. NUMBER <u>316363.GM.02</u> TEAM <u>1</u> SAMPLERS (SIGNATURE) <u>[Signature]</u>				COMMENTS												
SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	
MW-31-6D-056F	3/9/05	15:03	(ground) H ₂ O		1			1							2	
MW-2 [Signature]																
															28 Carried from pg 1	
															30 TOTAL NUMBER OF CONTAINERS	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name John Luck	Company/ Agency CH2 M HILL	Date/ Time 3/9/05 1540
Signature (Received)	Printed Name Sylvia Williams	Company/ Agency Thuesdail	Date/ Time 3-9-05 1540
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS			
RECEIVED	COOL ☐	WARM ☐	°F _____
CUSTODY SEALED	YES ☐	NO ☐	
SPECIAL REQUIREMENTS:			



TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
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www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days
DATE 3/9/05 PAGE 1 OF 2

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM 1
SAMPLERS (SIGNATURE) John Lueck

SAMPLE I.D. DATE TIME DESCRIPTION

SAMPLE I.D.	DATE	TIME	DESCRIPTION
MW-15-056	3/9/05	10:40	GRND WATER
MW-18-056	3/9/05	11:38	" "
MW-18-056	3/9/05	12:10	" "
MW-14-056	3/9/05	13:01	" "
MW-14-056	FF 3/9/05	12:59 13:00	GRND H2O
MW-25-056	FF 3/9/05	14:03	GRND H2O
MW-25-056	3/9/05	14:03	" H2O
MW-31-60-056	3/9/05	15:03	" "

Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	Mercury (54740A) FF	NUMBER OF CONTAINERS	PH, SP COND 10deg	COMMENTS
												3	pH, and Share	7199
												3	" " "	10 Day Turnaround
												3	" " "	7196 A, 10 day
												3	" " "	6010B
												3	" " "	10 day
												2		
												2		
												6	pH, and shared	
												6	pH, and shared	
												28	TOTAL NUMBER OF CONTAINERS	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>John Lueck</u>	<u>John Lueck</u>	<u>CH2M HILL</u>	<u>3/9/05 1540</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ 'F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:



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CHAIN OF CUSTODY RECORD

☐ TURNAROUND TIME 10 days
 DATE 03/09/05 PAGE 1 OF 1

COMPANY <u>CH2M Hill</u>				METHODS														NUMBER OF CONTAINERS	COMMENTS
PROJECT NAME <u>PG&E Topock GWM</u>																			
PHONE <u>(510) 251-2888</u> FAX <u>(510) 622-7086</u>																			
ADDRESS <u>155 Grand Ave. STE 1000</u> <u>Oakland, CA 94612</u>																			
P.O. NUMBER <u>316363 GM-02</u>																			
SAMPLERS (SIGNATURE)																			
SAMPLE I.D.	DATE	TIME	DESCRIPTION	PH FIELD	SPECIFIC CONDUCTANCE FIELD	TDS FIELD	SW7199 FIELD	SW6012 FIELD	Filtered CA										
MW-29-056	03/09/05	1105		X	X														1
MW-32-020-056	03/09/05	1440		X	X	X													2
MW-32-035-056 PF	03/09/05	1530 1140 AM					X	X											2
MW-32-035-056	03/09/05	1530		X	X	X													2
MW-33-040-056	03/09/05	1155		X	X														1
MW-33-040-056	03/09/05	1250		X	X														1
MW-33-090-056 PF	03/09/05	1250					X	X											2
MW-36-100-056	03/09/05	1358 105 AM		X	X														1
MW-36-100-056 PF	03/09/05	1358					X	X											2

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>Audie Martin</u>	Printed Name <u>Audie Martin</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/9/05 1537</u>	TOTAL NUMBER OF CONTAINERS
Signature (Received) <u>Sylvia Phillips</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3-9-05 1527</u>	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SAMPLE CONDITIONS RECEIVED ☐ COOL ☐ WARM ☐ <u> </u> °F
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED YES ☐ NO ☐
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:
Signature (Received)	Printed Name	Company/Agency	Date/Time	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	

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CHAIN OF CUSTODY RECORDTURNAROUND TIME 10 dayDATE 3/8/05 PAGE 1 OF 1

METHODS

COMPANY <u>CH2M Hill</u>				METHODS												NUMBER OF CONTAINERS	COMMENTS	
PROJECT NAME <u>Topack GMP</u>				CL-41-7199 Lab Filter	CL-41-6010R Lab Filter	CL-41-6010R Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter	CL-41-7199 Field Filter			
PHONE <u>510-587-7510</u> FAX <u></u>																		
ADDRESS <u>155 Grand Ave Ste 1000</u>																		
OAKLAND, CA																		
P.O. NUMBER <u>316363 Gm.02</u>																		
SAMPLERS (SIGNATURE) <u>Matt Bigger</u>																		
SAMPLE I.D.	DATE	TIME	DESCRIPTION															
MW-27-060-056	3/8/05		GW														1	PR
AW-27-065-056																	1	PR
MW-27-020-056		1115								X	X	X					2	
MW-34-100-056																	1	PR
MW-34-080-056		1415								X	X	X	X	X			3/4	PR
MW-27-085-056	3/8/05	1031	GW			X		X									2	
MW-34-060-056	3/8/05	1415	GW			X		X									2	
MW-27-080-EB-056	3/8/05	0947	EB			X		X									3/2	PR

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) <u>Matt Bigger</u>	Printed Name <u>Matt Bigger</u>	Company/Agency <u>CH2M Hill</u>	Date/Time <u>3/8/05 1512</u>
Signature (Received) <u>Sylvia Phillips</u>	Printed Name <u>Sylvia Phillips</u>	Company/Agency <u>Truesdail</u>	Date/Time <u>3-8-05 12:12</u>
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

12

9

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONSRECEIVED COOL ☐ WARM ☐ °FCUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

940663

DATE 3/11/05 PAGE 1 OF 1

COMPANY CH2MHill
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave. Ste. 1000
Oakland, CA 94612
P.O. NUMBER 316363 GM.02
SAMPLERS (SIGNATURE)

SW7196 - Lab Filter - CR	SW6010 - Lab Filter - CR	SW7199 - Field Filtered CR	PH 6.50.1	SW7199 - Lab Filtered CR	SW7470 - Field Filtered CR	SW6010 - Field Filtered CR

METHODS

NUMBER OF CONTAINERS

COMMENTS

[illegible]

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<i>Audie Martin</i>	Printed Name	<i>Audie Martin</i>	Company/ Agency	<i>CHAMHILL</i>	Date/ Time	<i>3-11-08 15:38</i>
Signature (Relinquished)	<i>Sylvia Phillips</i>	Printed Name	<i>Sylvia Phillips</i>	Company/ Agency	<i>Trusdale</i>	Date/ Time	<i>3-18-08 15:38</i>
Signature (Relinquished)	<i>Sylvia Phillips</i>	Printed Name	<i>Sylvia Phillips</i>	Company/ Agency	<i>Trusdale</i>	Date/ Time	<i>3-11-08 00:11</i>
Signature (Received)	<i>L. Shabazz</i>	Printed Name	<i>L. Shabazz</i>	Company/ Agency	<i>TL</i>	Date/ Time	<i>3/11/08 20:20</i>
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS

RECEIVED COOL WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

ALERT!!
Level III OC



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days

DATE 3/10/05 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM 1
SAMPLERS (SIGNATURE) John Lusk

SAMPLE I.D.	DATE	TIME	DESCRIPTION
MW-40S-056FF	3/10/05	10:12	Ground water
MW-40S-056	3/10/05	10:12	"
MW-40S-EB-056	3/10/05	10:45	Eq. BLK WATER
MW-40D-056	3/10/05	11:35	Ground water
MW-31-135-056	3/10/05	13:07	"
MW-31-135-EB-056	3/10/05	14:45	EQ BLK
MW-41S-035-056	3/10/05	15:13	Ground water

Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (2186) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
1				1							2	
	1				1	1 phase					3	pH, second shared
	1										1	lab filter
	1				1	1 phase					3	pH, second shared
	1				1	1 phase					3	pH, second shared
	1										1	
	1				1	1 phase					3	pH, second shared
											1/6	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>John Lusk</u>	<u>John Lusk</u>	<u>CH2M HILL</u>	<u>3/10/05 1530</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
<u>John Lusk</u>	<u>John Lusk</u>	<u>Truesdail</u>	<u>3-10-05 1530</u>
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>Michael Hyslop</u>	<u>Michael Hyslop</u>	<u>Truesdail</u>	<u>3-10-05 2100</u>
Signature (Received)	Printed Name	Company/Agency	Date/Time
<u>Michael Hyslop</u>	<u>Michael Hyslop</u>	<u>Truesdail</u>	<u>3-10-05 2105</u>

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions
See Form Attached



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CHAIN OF CUSTODY RECORD

[2005-056-Q1]

TURNAROUND TIME 10 Days

DATE 03/10/05 PAGE 1 OF 1

COMPANY CH2M HILL
PROJECT NAME PG&E Topock GWM
PHONE (510) 251-2888 FAX (510) 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 316363.GM.02 TEAM _____
SAMPLERS (SIGNATURE) V.M. / S.D.

SAMPLE I.D.	DATE	TIME	DESCRIPTION
MW-20-70-056	3/10/05	1130	GROUNDWATER
MW-20-70-056FF	↓	1130	"
MW-20-100-056	↓	1430	"
TW-25-050 V.M.			

Hexavalent Chromium (7199) - Field Filtered	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7199A) - Lab Filtered	Hexavalent Chromium (7196A) - Field Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Total Dissolved Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Field Filtered	Mercury (7470A) - Field Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (180.1)	Metals (200.7) - Field Filtered	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
			X	X	X	X	X	X	X	X	X	X	6	pH = 7
	X	X	X	X	X								2	pH = 2
	X	X	X	X	X			X	X	X			4	pH = 4

Rec'd 03/10/05
40620

ALERT!!
Level III QC

12 TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	Victor H. Martinez	CH2M HILL	03/10/05 1530
Signature (Received)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	Sylvia Phillips	Truesdail	3-10-05 1530
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	Sylvia Phillips	Truesdail	3-10-05 2100
Signature (Received)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	David Dora	TLI	3/10 2205
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
Signature (Received)	Printed Name	Company/Agency	Date/Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions
See Form Attached