Pacific Gas and Electric Company®

Yvonne J. Meeks
Site Remediation - Portfolio Manager
Environmental Affairs

6588 Ontario Road
San Luis Obispo, CA 93405
Mailing Address
4325 South Higuera Street
San Luis Obispo, CA 93401

805.546.5243
Internal: 664.5243
Fax: 805.546.5232
E-Mail: YJM1@pge.com

August 30, 2005

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

Subject: Second Quarter 2005 Groundwater and Surface Water Monitoring Report
PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

Enclosed is the Second Quarter 2005 groundwater and surface water monitoring report for the Topock project. The quarterly monitoring event was conducted by PG&E during June 13-17, 2005, and included monitoring and sampling of 51 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,

Paul Bittner
for Yvonne Meeks

Enclosure

Groundwater and Surface Water Monitoring Report Second Quarter 2005

PG&E Topock Compressor Station
Needles, California

Prepared for

Pacific Gas and Electric Company

August 30, 2005

CH2MHILL

Groundwater and Surface Water Monitoring Report
Second Quarter 2005

PG&E Topock Compressor Station
Needles, California

Prepared for

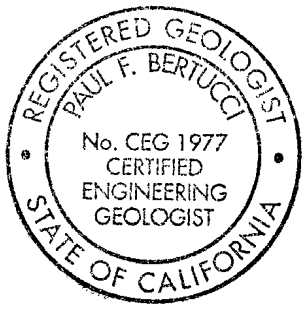
Pacific Gas and Electric Company

August 30, 2005

This report was prepared under the supervision of a

California Certified Engineering Geologist

Paul Bertucci, C.E.G. No. 1977
Project Hydrogeologist



Contents

Figures

Appendices

Acronyms and Abbreviations

BLM	Bureau of Land Management
CACA	Corrective Action Consent Agreement
CCR	California Code of Regulations
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
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 second quarter 2005 groundwater and surface water quarterly monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station during June 2005. The Topock Groundwater and Surface Water Monitoring Program (GMP) is part of a Resource Conversation 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.

The groundwater and surface water monitoring activities at the Topock site were initiated in 1998 as a continuation of the RFI groundwater investigations (CH2M HILL 2005a). 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 described 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), and the California Code of Regulations (CCR) 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 (DTSC 2004b), 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 analytical data from selected sampling locations near the pumping operation. The performance monitoring initiated under the IM program (CH2M HILL 2004b) is currently being performed as part of the GMP quarterly monitoring and reporting activity.

During January and February 2005, new groundwater monitoring wells were installed in the floodplain area of the site under the IM program. A DTSC-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 included the weekly sampling of four sentry wells

in the floodplain and four consecutive weeks of sampling of three surface water stations. In May 2005, DTSC revised the sampling frequency for the Contingency Plan to include the weekly sampling of one sentry well and the biweekly sampling of six sentry wells in the floodplain (DTSC 2005b).

An updated Monitoring Plan, describing the objectives, scope, and schedule for the GMP, was submitted to DTSC on April 11, 2005 (CH2M HILL 2005b). DTSC provided preliminary comments on May 24, 2005 (DTSC 2005c) that approved the inclusion of 11 additional monitoring wells in the GMP. DTSC has not yet provided final comments or approval of the updated April 2005 Monitoring Plan.

Under the GMP as of June 2005, samples are collected from monitoring wells and surface water stations according to the following schedule:

- Sixty-nine monitoring wells and nine surface water stations along the Colorado River are sampled quarterly.
- Thirty-five monitoring wells and nine surface water (river shoreline) stations are sampled monthly.
- Six monitoring wells on the floodplain are sampled biweekly (every two weeks).
- One monitoring well is 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).

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 monitoring wells at the site. Table 1 summarizes information on well construction and sampling methods for all wells in the GMP, and other monitoring wells at the site.

2.0 Second Quarter 2005 Monitoring Activities

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

2.1 Summary of Monitoring and Sampling

The second quarter 2005 monitoring event was conducted from June 13 through 17, 2005 and consisted of:

- Fifty-one monitoring wells and nine surface water stations in the quarterly monitoring program (Figure 2) were sampled for Cr(VI), Cr(T), specific conductance, and pH from June 13 through 17, 2005. Out of the scheduled 69 monitoring wells, 17 wells (MW-27 cluster, MW-30 cluster, MW-34 cluster, MW-36 cluster, and MW-42 cluster) in the central floodplain area were not sampled because of floodplain access limitations due to concerns regarding the potential Southwest Willow Flycatcher habitat presented by the Bureau of Land Management (BLM). Monitoring well MW-24BR was not sampled during the June event due to equipment problems. Using BLM-modified sampling procedures, well MW-34-100 was later sampled on June 21, and MW-34-80 was sampled on June 30. Fifty-three monitoring wells were sampled by the end of June for the quarterly event.
- Eight wells were sampled for the full list of metals, following CCR 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-34-80, and MW-37D). Out of the scheduled nine wells, MW-34-55 was not sampled due to floodplain access limitations (Flycatcher) discussed above.
- Twenty-eight wells and two surface water locations were sampled for the IM performance monitoring parameters: total dissolved solids (TDS), oxygen 18 (^{18}O), deuterium, chloride, sulfate, nitrate, bromide, alkalinity, calcium, magnesium, potassium, sodium, and boron. Four routine IM monitoring wells (MW-27-20, MW-30-30, MW-30-50, and MW-34-55) were not sampled due to floodplain access limitations (Flycatcher) discussed above.
- Groundwater and surface water elevations and field water quality data were collected for all the GMP locations sampled.
- Duplicate samples were collected at nine monitoring wells (MW-9, MW-14, MW-20-70, MW-25, MW-31-135, MW-33-90, MW-34-100, MW-41M, and MW-43-90) to assess field sampling and analytical procedures.
- A sitewide water level survey was performed on June 16, 2005 but was not completed due to cultural access issues at some of the monitoring wells. Therefore, the sitewide water level survey completed on May 18, 2005 was used to generate a groundwater elevation contour map for the second quarter 2005.

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 July 2004 SAP (CH2M HILL 2004a) and the *Sampling and Analysis Field Procedures Topock Program Manual, Revision 1*, dated March 31, 2005 (CH2M HILL 2005c).

During the second quarter 2005 monitoring period, two monthly sampling events (April and May), four biweekly sampling events, and six weekly sampling events were also conducted. The results of the monthly, biweekly, and weekly monitoring events performed during the second 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 June 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 100 micrograms per liter (µg/L). The minimum reporting limit for Method SW 7196A for undiluted samples is 10 µg/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 100 µg/L. The minimum reporting limit for Cr(VI) using Method SW 7199 is 0.2 µg/L for undiluted samples.
- Dissolved Cr(T) was analyzed using Method SW 6010B or Method SW 6020 (both have reporting limits of 1 µg/L for undiluted samples).
- Method USEPA 218.6 (equivalent to Method SW 7199), with a reporting limit of 0.2 µg/L, was used for the Cr(VI) water analysis from the domestic supply well at Park Moabi.

2.1.2 Title 22 Metals

In addition to the site COCs (Cr(VI) and Cr(T)), eight monitoring wells were sampled for antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc (CCR Title 22 full list of metals).

In accordance with DTSC (2004a), the groundwater samples for CCR Title 22 dissolved metals analyses were field-filtered with a 0.45-micron inline filter. The metals analyses were performed by Emax Laboratories, a California-certified analytical laboratory in Torrance, California.

2.1.3 IM Performance Monitoring and Additional Water Quality Characterization

During the June 2005 quarterly event, select monitoring wells and surface water locations were sampled for specific parameters to monitor the performance and effects of IM pumping at the MW-20 bench on groundwater chemistry in the floodplain area. In addition to the 14 wells and two surface water stations regularly scheduled for quarterly IM performance monitoring, 26 additional wells were selected for general chemistry characterization, as outlined in the July 2004 SAP (CH2M HILL 2004a). The additional wells selected for general chemistry water quality sampling included the 11 new floodplain monitoring wells (installed January-February 2005), wells MW-41S and MW-41D (installed November 2004), and other monitoring wells in the floodplain area that had not been sampled for the complete suite of general chemistry parameters.

During the June 2005 event, 10 of 14 regular wells and 18 of 26 additional wells were sampled due to floodplain access limitations. The 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 or SW 6020).
- 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 (San Luis Obispo, stable isotopes), and Emax Laboratory (cations, anions, and alkalinity). Additional parameters were collected during the June quarterly event for water quality characterization and analyzed by Emax. These parameters included ammonia (Method 350.2), total organic carbon (Method 415.2), dissolved silica (Method 370.1), iron (Method 6010B or 6020), and manganese (Method 6010B or 6020). These additional analyte results, which are not part of the routine performance parameters, will be reported in the appendix of the annual GMP Report.

3.0 June 2005 Quarterly Monitoring Results

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

The presented monitoring results and data include results for site COCs, the performance monitoring parameters, and CCR 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 June 2004 through June 2005. During the June 2005 quarterly event, the maximum Cr(T) concentration detected was 10,300 µg/L and the maximum Cr(VI) concentration detected was 10,800 µg/L, both in well MW-20-130. Overall, the June 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 surface water sampling from June 2004 through June 2005. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine surface water shoreline stations sampled during the June 2005 quarterly event.

3.1.3 Hexavalent Chromium Results

Figures 3A through 3C present the Cr(VI) results for wells monitoring the upper, middle, and lower depth intervals of the Alluvial Aquifer, respectively, during the second quarter 2005 sampling 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 Cr(VI) results for the surface water sampling during June 2005 are also shown on Figure 3A.

The overall distribution and concentrations of Cr(VI) in the groundwater during June 2005 in the upper- and middle-depth monitoring wells (Figures 3A and 3B) are generally consistent and comparable with the prior quarterly monitoring data (CH2M HILL 2005e). Several new monitoring wells in the floodplain area (MW-33 and MW-43 clusters) have been incorporated in the Cr(VI) distribution map for the lower-depth interval of the Alluvial Aquifer (Figure 3C). Although the overall distribution of Cr(VI) is similar to prior

monitoring events, the June 2005 sampling results indicate slightly increasing concentrations in the deeper monitoring wells at the MW-20 and MW-34 locations, and declining concentrations in the deeper wells at the MW-36, MW-39, and MW-40 well cluster locations (see Table 2).

3.2 Additional Analytes Results

3.2.1 IM Performance Monitoring and Additional Water Quality Characterization

Table 4 presents the results of the general chemistry and stable isotope analyses for selected monitoring wells in the IM performance monitoring area from March 2004 through June 2005. Also reported in Table 4 are the June 2005 general chemistry results for the recently-installed monitoring wells sampled for water quality characterization (as described in Section 2.1.3). The general chemistry and stable isotope data collected under the GMP will be used to assess water quality conditions for the site hydrogeologic model and to evaluate data trends in the IM performance monitoring floodplain area.

3.2.2 CCR Title 22 Metals

Table 5 presents the full list of CCR Title 22 metal results for the GMP monitoring wells sampled during the second quarter 2005 monitoring event and during previous quarterly events. In addition to Cr(T), the trace metals detected in the June 2005 groundwater sampling event were arsenic, barium, cobalt, copper, lead, molybdenum, nickel, selenium, thallium, vanadium, and zinc. Excluding Cr(T) and arsenic, the dissolved concentrations of the trace metals detected during the second quarter 2005 sampling are below the respective California drinking water standards.

3.3 Analytical Data Quality Review

The laboratory analytical data generated from the second 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. No significant analytical deficiencies were identified in the June 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 June 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, which affected the sensitivity for Cr(VI) when using Method SW 7199. Results from eight wells 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.

The hexavalent chromium result for sample MW-33-210 was noticeably greater (>20 percent) than the dissolved chromium results. Matrix interference issues precluded accurate quantification and both results were estimated (J flagged).

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.

Matrix Spike Samples: Matrix spike acceptance criteria were met, with the following exceptions: the Cr(VI) analysis for MW-33-150 duplicate sample had recovery that was below the criteria, and the result was estimated (J flagged).

Field Duplicates: All field duplicates acceptance criteria were met, with the following exceptions: (1) the dissolved chromium analysis for MW-41M was the outside acceptance criteria, and the result was estimated (J flagged); and (2) the zinc analyses for MW-20-70 and MW-25 were also outside the acceptance criteria, and the results were estimated (J flagged).

Laboratory Duplicates: Laboratory duplicate acceptance criteria for all methods were met with the following exceptions: TDS analyses for MW-31-135, MW-34-100 FD, MW-39-70, and MW-39-100 were outside the quality control limits, and the results were estimated (J flagged).

3.4 Water Level Measurements

Table 6 presents the water level measurements and groundwater and surface water elevations collected during the June 2005 quarterly event. Water level measurements from prior monitoring events since June 2004 are summarized in this table for reference and comparison. Table 6 also lists salinity data for the wells where water level data were measured. Groundwater salinity during this monitoring event ranged from 0.09 percent (MW-18) to a maximum of 1.90 percent (well MW-36-20), a range that is consistent with results of prior monitoring. Because of the density differences in groundwater caused by salinity variations, the groundwater elevations measured in the monitoring wells have been adjusted, or normalized, to a freshwater standard (Table 6).

Since March 2004, a network of over 70 pressure transducers has been 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 elevation data for wells in the floodplain area are calculated monthly and are presented in the IM performance monitoring reports (CH2M HILL 2005f).

At DTSC direction (DTSC 2005d), a sitewide water level survey was conducted during the June quarterly event to collect data to prepare a groundwater elevation contour map of the upper-depth interval of the Alluvial Aquifer. However, due to access issues associated with cultural resources, several of the monitoring wells in the survey area were not accessible during the event. Therefore, data from the earlier May 18, 2005 sitewide water level survey were used for this second quarter monitoring report. The May water level survey involved the manual collection of water level data at 32 shallow wells within a one-hour period. The groundwater elevation data measured were normalized to a freshwater standard. Figure 4

presents the groundwater elevation contours for the upper-depth interval of the Alluvial Aquifer (shallow monitoring wells) measured on May 18, 2005. The groundwater elevation contours depicted on Figure 4 reflect transient conditions at the time of measurement and may not be representative of the average annual groundwater flow directions in the study area.

3.5 Field Parameter Data

A field parameter meter and flow-through cell were used to measure water quality parameters during well purging and groundwater sampling (CH2M HILL 2004a, 2005b). Water quality field measurements were also recorded during surface water sampling. The measured field parameters included specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen. Table 7 summarizes the field water quality data collected during the June 2005 quarterly event and prior monitoring. Field data sheets and chain-of-custody records 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 second 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 2005e). In response to the letter, the GMP Monitoring Plan was submitted on April 11, 2005 (CH2M HILL 2005b). Beyond the additional wells outlined in the DTSC letter of May 2005 (DTSC 2005c), the remainder of the Monitoring Plan will be implemented for future GMP sampling events once DTSC's review and approval of the Monitoring Plan has been received.

In the spring of 2005, a chromium filtration comparison test was performed at DTSC's request to evaluate the effects, if any, of field filtering versus laboratory filtering of samples collected for chromium analysis. The chromium results of groundwater samples collected from 16 wells during the March 2005 and April 2005 monthly monitoring events were statistically analyzed and evaluated to determine the effects of the two filtering approaches. From the results of the filtration comparison test, it was recommended that samples analyzed for Cr(VI) by USEPA Methods 7199 and 7196A should be filtered in the laboratory, and that samples analyzed for Cr(T) by USEPA Method 6010B should be filtered and preserved in the field after sample collection (CH2M HILL 2005g). In their June 2005 letter, DTSC agreed with the recommendations of the test and directed the changes to be initiated for the July 2005 monthly event (DTSC 2005f).

4.1 Quarterly Monitoring – Third Quarter 2005 Event

The third quarter 2005 monitoring event, normally conducted during September, is scheduled to be conducted October 3 through 12, 2005. The quarterly event will be delayed until after September to avoid heat-related health and safety issues associated with working in high temperature conditions. Further, site access restrictions in place during the Southwestern Willow Flycatcher nesting season (typically June through September) will have been discontinued by October, and sampling crews will be able to proceed with standard sampling methodology on the floodplain.

Pending DTSC comments and approval of the April 2005 Monitoring Plan (CH2M HILL 2005b), this GMP monitoring event will implement the sampling and analysis scope presented in the Monitoring Plan, as well as continue the IM chemical performance monitoring of selected locations (described in Section 2.1.3). The groundwater and surface water monitoring report for the third quarter 2005 GMP event will be submitted approximately 12 weeks after sampling.

The surface water monitoring program has recently been augmented to include quarterly depth-specific sampling of eight in-channel surface water stations. The depth-specific sampling was initiated in July 2005 and will next occur during the September 2005 monthly

event. The depth-specific surface water sampling will continue concurrently with the shoreline river sampling through June 2006.

4.2 Monthly Monitoring

Beginning in November 2003, at the DTSC's request, PG&E 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. Requirements for the monthly monitoring activity were further modified to include surface water monitoring, as specified by DTSC (DTSC 2004b).

From October 2004 to May 2005, monthly sampling events were conducted in accordance with the July 2004 SAP, and included the sampling of 24 wells and nine surface water locations for Cr(VI) and Cr(T) (Figure 2). Following DTSC's May directives (DTSC 2005b-c), monthly sampling events now include the sampling of 35 wells and nine surface water locations for Cr(VI) and Cr(T). In July 2005, DTSC approved a temporary reduction in sampling frequencies from July through September 2005 in response to heat-related health and safety issues and BLM concerns over the flycatcher breeding season (DTSC 2005g). The summer 2005 sampling frequency includes monthly sampling of 12 wells on the floodplain, with several floodplain wells requiring specially modified procedures for low impact sampling.

Monthly monitoring of the 12 wells and nine shoreline surface water stations occurred in July 2005 and will occur again in August and September.

4.3 Biweekly/Weekly Well Sampling

From January to August 2004, at the DTSC's request, PG&E conducted weekly sampling for Cr(VI) and Cr(T) at seven selected monitoring wells in the floodplain, as part of IM data collection (DTSC 2004c). On the basis of the sampling results and monitoring needs, the July 2004 SAP proposed that the sampling activity at four select wells be changed from weekly to biweekly for continued monitoring near the Colorado River. In August 2004, DTSC approved the transition from weekly to biweekly sampling. The four floodplain wells included in biweekly sampling were MW-28-90, MW-33-90, MW-34-80, and MW-36-100. 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. The sampling frequencies were revised in May 2005 under DTSC's directive: MW-34-100 to weekly sampling, MW-27-85 and MW-34-80 to biweekly sampling, and MW-27-60 to monthly sampling (DTSC 2005b).

In July 2005, DTSC decreased the monthly sampling schedule to 12 wells and the biweekly sampling schedule to one well (MW-34-100; temporarily eliminating the weekly sampling requirement for this well) for the period of July through September 2005 (DTSC 2005g). Groundwater monitoring of sentry wells in the floodplain area will continue in accordance with the approved monitoring and contingency plans, and as directed by DTSC.

5.0 References

California Department of Toxic Substances Control (DTSC). 2004a. Letter to PG&E. "Notification of Required Weekly Sampling and Analysis of Monitoring Well MW-33-90 and Submission of a Revised Water Quality Sampling and Analysis Plan, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California." May 3.

_____. 2004b. Letter to PG&E. "Request for Interim Measure Work Plan No. 2, Pacific Gas & Electric Company, Topock Compressor Station." February 9.

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

_____. 2005a. Letter to PG&E. "Criteria for Evaluating Interim Measures Performance Requirements to Hydraulically Contain the Chromium Plume in Floodplain Area, Pacific Gas & Electric Company, Topock Compressor Station." February 14.

_____. 2005b. Letter to PG&E. "Response to April 29, 2005 Letter Request for Modification to Sampling Frequency for Floodplain Groundwater Monitoring Wells, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California (EPA ID No. CAT080011729)." May 5.

_____. 2005c. Letter to PG&E. "Comments on Monitoring Plan for Groundwater and Surface Water Monitoring Program, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California (EPA ID No. CAT080011729)." May 24.

_____. 2005d. Letter to PG&E. "Requirements for Groundwater and Surface Water Monitoring Program, Pacific Gas & Electric Company, Topock Compressor Station." April 26.

_____. 2005e. Letter to PG&E. "Sampling and Analysis Plan, Groundwater and Surface Water Monitoring, dated July 14, 2004, Pacific Gas & Electric Company, Topock Compressor Station." January 25.

_____. 2005f. Letter to PG&E. "Comments on Filtration Comparison Test Report, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California (EPA ID No. CAT080011729)." June 28.

_____. 2005g. Letter to PG&E. "Approval to Reduce Frequencies of Groundwater Sampling in Some Floodplain Wells Through September 2005, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California (EPA ID No. CAT080011729)." July 20.

CH2M HILL. 2004a. *Sampling and Analysis Plan, Groundwater and Surface Water Monitoring, PG&E Topock Compressor Station, Needles, California.* July 14.

_____. 2004b. *Draft Interim Measures Work Plan, Topock Compressor Station.* February 11.

_____. 2005a. *Draft RCRA Facility Investigation/Remedial Investigation Report, PG&E Topock Compressor Station, Needles, California.* February.

_____. 2005b. *Monitoring Plan for Groundwater and Surface Water Monitoring Program, Topock Compressor Station, Needles, California.* April 11.

_____. 2005c. *Sampling and Analysis Field Procedures Topock Program Manual, Revision 1, Topock Compressor Station, Needles, California.* March 31.

_____. 2005d. *Groundwater and Surface Water Monitoring Report, Fourth Quarter 2004, PG&E Topock Compressor Station, Needles, California.* March 24.

_____. 2005e. *Groundwater and Surface Water Monitoring Report, First Quarter 2005, PG&E Topock Compressor Station, Needles, California*. May 31.

_____. 2005f. *Performance Monitoring Report for June 2005, Interim Measures, Performance Monitoring Program for Floodplain Area, PG&E Topock Compressor Station, Needles, California.* July 15.

_____. 2005g. *Results of the Chromium Sample Filtration Comparison Test, PG&E Topock Compressor Station, Needles, California.* May 23.

Tables

Table 1
Well Construction and Sampling Summary, June 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	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	91.0	80.4	CD pump	3	11	
MW-10	Bat Cave Wash	530.65	73.7 - 93.7	4 in PVC	98.0	74.7	CD pump	5	40	
MW-11	Bat Cave Wash	522.61	62.5 - 82.5	4 in PVC	91.0	66.7	CD pump	5	30	
MW-12	East of Station	484.01	27.5 - 47.5	4 in PVC	52.0	28.5	Ded. Redi-Flo AR	3	40	
MW-13	Bat Cave Wash	488.64	28.5 - 48.5	4 in PVC	52.0	32.6	CD pump	4	30	
MW-14	East Mesa	570.99	111 - 131	4 in PVC	135.0	114.9	CD pump	4	30	
MW-15	East of New Ponds	641.52	180.5 - 200.5	4 in PVC	205.0	185.4	CD pump	5	30	
MW-16	Near New Ponds	657.31	198 - 217	4 in PVC	220.0	200.8	CD pump	7	35	
MW-17	West of Mesa Area	589.96	130 - 149.5	4 in PVC	153.0	133.1	CD pump	5	32	
MW-18	West Mesa	545.32	85 - 104	4 in PVC	112.0	88.8	CD pump	5	30	
MW-19	Route 66	499.92	46 - 65	4 in PVC	67.0	43.9	CD pump	7	41	
MW-20-070	MW-20 bench	500.15	50 - 70	4 in PVC	71.0	45.0	CD pump	10	53	
MW-20-100	MW-20 bench	500.58	89.5 - 99.5	4 in PVC	101.0	45.8	CD pump	10	110	
MW-20-130	MW-20 bench	500.66	121 - 131	4 in PVC	133.0	46.3	CD pump	10	180	
MW-21	Route 66	505.55	39 - 59	4 in PVC	59.0	50.0	CD pump	10	10	low recharge well; purges dry at 1 casing volume
MW-22	Floodplain	460.72	5.5 - 10.5	2 in PVC	13.0	5.5	Peristaltic	0.2	4	
MW-23	East of Station	507.33	60 - 80	4 in PVC	82.0	51.9	CD Pump	5	20	low recharge well; purges dry at 1 casing volume
MW-24A	MW-24 Bench	567.16	104 - 123.5	4 in PVC	127.0	111.3	CD pump	3	30	
MW-24B	MW-24 Bench	564.76	193 - 213	4 in PVC	219.0	109.0	CD pump	7	210	
MW-24BR	MW-24 Bench	563.95	378 - 437	4 in PVC	441.0	108.3	CD pump	8	185	low recharge well; purges dry at 1 casing volume
MW-25	Near Bat Cave Wash	542.90	84.5 - 104.5	4 in PVC	107.0	87.1	CD pump	5	32	
MW-26	Route 66	502.22	51.5 - 71.5	2 in PVC	74.0	46.7	CD pump	7	50	
MW-27-020	Floodplain	460.56	7 - 17	2 in PVC	19.0	4.1	Ded. Redi-Flo AR	1	7	
MW-27-060	Floodplain	461.38	47.3 - 57.3	2 in PVC	59.0	4.8	Redi-Flo AR	2	25	
MW-27-085	Floodplain	460.99	77.5 - 87.5	2 in PVC	80.0	6.0	Redi-Flo AR	2	36	
MW-28-025	Floodplain	466.85	13 - 23	2 in PVC	25.0	10.2	Ded. Redi-Flo AR	1	5	
MW-28-090	Floodplain	467.51	70 - 90	2 in PVC	98.0	11.9	Ded. Redi-Flo AR	2	50	
MW-29	Floodplain	485.21	29.5 - 39.5	2 in PVC	42.0	29.1	Ded. Mini-Monsoon	0.5	6	
MW-30-030	Floodplain	468.12	12 - 32	2 in PVC	34.0	13.1	Ded. Redi-Flo AR	1	10	
MW-30-050	Floodplain	468.81	40.5 - 50.5	4 in PVC	52.0	13.4	Ded. Redi-Flo AR	2	75	
MW-31-060	MW-20 Bench	496.81	41.5 - 61.5	4 in PVC	64.0	41.0	CD pump	10	40	
MW-31-135	MW-20 Bench	498.11	113 - 133	2 in PVC	134.0	42.8	Redi-Flo AR	3	60	
MW-32-020	Floodplain	461.51	10 - 19	2 in PVC	22.0	6.1	Ded. Redi-Flo AR	1.5	6	

Table 1
Well Construction and Sampling Summary, June 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monitoring Wells										
MW-32-035	Floodplain	461.63	27.5 - 35	4 in PVC	39.0	5.9	Ded. Redi-Flo AR	2	60	
MW-33-040	Floodplain	487.38	29 - 38	4 in PVC	42.0	31.4	Ded. Mini-Monsoon	0.5	4	
MW-33-090	Floodplain	487.55	69 - 88	4 in PVC	91.0	31.1	Ded. Redi-Flo AR	2	110	
MW-33-150	Floodplain	487.77	132 - 152	2 in PVC	155.0	32.7	Redi-Flo AR	3	60	
MW-33-210	Floodplain	487.25	190 - 210	2 in PVC	223.0	32.5	Redi-Flo AR	3	90	
MW-34-055	Floodplain	460.95	45 - 55	4 in PVC	56.0	4.0	Ded. Redi-Flo AR	2	100	
MW-34-080	Floodplain	461.20	73 - 82	4 in PVC	84.0	6.1	Ded. Redi-Flo AR	3	150	
MW-34-100	Floodplain	460.96	89.5 - 99.5	2 in PVC	117.0	6.2	Redi-Flo AR	2	55	
MW-35-060	Route 66	484.19	38.5 - 58.5	2 in PVC	60.0	28.0	Redi-Flo AR	2	18	
MW-35-135	Route 66	483.57	120 - 140	2 in PVC	159.0	28.0	Redi-Flo AR	3	66	
MW-36-020	Floodplain	469.26	10 - 20	1 in PVC	23.0	13.4	Peristaltic	0.5	4	
MW-36-040	Floodplain	469.61	30 - 40	1 in PVC	43.0	14.1	Peristaltic	0.5	4	
MW-36-050	Floodplain	469.60	46 - 51	1 in PVC	53.0	14.2	Peristaltic	0.75	5	
MW-36-070	Floodplain	469.25	60 - 70	1 in PVC	73.0	13.4	Peristaltic	0.5	7	
MW-36-090	Floodplain	469.61	80 - 90	1 in PVC	93.0	14.7	Peristaltic	0.4	10	
MW-36-100	Floodplain	469.64	88 - 98	2 in PVC	110.0	15.0	Ded. Redi-Flo AR	2	45	
MW-37D	Bat Cave Wash	486.19	180 - 200	2 in PVC	227.0	30.9	Redi-Flo AR	3	100	
MW-37S	Bat Cave Wash	485.97	64 - 84	2 in PVC	87.0	30.7	Redi-Flo AR	2	30	
MW-38D	Bat Cave Wash	525.31	163.3 - 183.3	2 in PVC	191.0	70.5	Redi-Flo AR	3	60	
MW-38S	Bat Cave Wash	525.51	75 - 95	2 in PVC	98.0	70.3	Redi-Flo AR	1	13	
MW-39-040	Floodplain	468.02	30 - 40	1 in PVC	42.0	12.0	Peristaltic	0.5	3.5	
MW-39-050	Floodplain	467.93	45 - 50	1 in PVC	50.0	12.0	Peristaltic	0.5	5	
MW-39-060	Floodplain	468.00	49 - 59	1 in PVC	66.0	12.0	Peristaltic	0.5	6	
MW-39-070	Floodplain	468.02	60 - 70	1 in PVC	72.0	12.0	Peristaltic	0.5	7	
MW-39-080	Floodplain	467.92	70 - 80	1 in PVC	83.0	13.2	Peristaltic	0.5	9	
MW-39-100	Floodplain	468.01	80 - 100	2 in PVC	118.0	13.4	Ded. Redi-Flo AR	2	45	
MW-40D	I-40 Median	566.08	235 - 255	2 in PVC	266.0	110.8	Redi-Flo AR	3	75	
MW-40S	I-40 Median	566.04	115 - 135	2 in PVC	134.0	110.4	Redi-Flo AR	2	13	
MW-41D	Bat Cave Wash	479.42	271 - 291	2 in PVC	313.0	24.0	Redi-Flo AR	3	145	
MW-41M	Bat Cave Wash	479.83	170 - 190	2 in PVC	192.0	23.8	Redi-Flo AR	3	85	
MW-41S	Bat Cave Wash	480.07	40 - 60	2 in PVC	62.0	23.9	Redi-Flo AR	2	42	
MW-42-030	Floodplain	463.81	9.8 - 29.8	2 in PVC	32.0	12.1	Redi-Flo AR	2	28	
MW-42-055	Floodplain	463.87	42.5 - 52.5	2 in PVC	56.0	12.1	Redi-Flo AR	3	21	

Table 1
Well Construction and Sampling Summary, June 2005
PG&E Topock Groundwater Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft MSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft bgs)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Remarks
GMP Monitoring Wells										
MW-42-065	Floodplain	463.37	56.2 - 66.2	2 in PVC	80.0	11.8	Redi-Flo AR	3	36	
MW-43-025	Floodplain	462.54	15 - 25	2 in PVC	27.0	6.2	Redi-Flo AR	1	9	
MW-43-075	Floodplain	462.71	65 - 75	2 in PVC	77.0	7.4	Redi-Flo AR	2	28	
MW-43-090	Floodplain	462.76	80 - 90	2 in PVC	102.0	7.7	Redi-Flo AR	2	47	
Other Site Wells not in GMP										
MW-01	New Ponds	661.76	200.5 - 210.5	4 in PVC	217.0	206.0	air bladder pump			active PG&E pond monitoring well
MW-03	New Ponds	650.51	193 - 203	4 in PVC	205.0	195.1	air bladder pump			active PG&E pond monitoring well
MW-04	New Ponds	625.73	164.5 - 174.5	4 in PVC	179.0	174.0	air bladder pump			active PG&E pond monitoring well
MW-05	New Ponds	635.69	175.9 - 185.4	4 in PVC	190.0	185.0	air bladder pump			active PG&E pond monitoring well
MW-06	New Ponds	642.84	184.5 - 193.5	4 in PVC	198.0	193.0	air bladder pump			active PG&E pond monitoring well
MW-07	New Ponds	631.91	172.7 - 182.7	4 in PVC	185.0	180.0	air bladder pump			active PG&E pond monitoring well
MW-08	New Ponds	627.54	169 - 178	4 in PVC	183.0	177.0	air bladder pump			active PG&E pond monitoring well
MWP-08	Old Ponds	677.48	181 - 210	3 in PVC	213.0	189.5	---			inactive monitoring well
MWP-10	Old Ponds	675.81	195 - 235	3 in PVC	237.0	208.6	---			inactive monitoring well
MWP-12	Old Ponds	663.49	96 - 136	4 in PVC	143.0	107.4	---			inactive monitoring well
P-2	New Ponds	537.60	238.5 - 248.5	4 in PVC	251.0	170.2	---			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	150.0	69.3	CD pump	70.1	160	active IM extraction well
TW-02S	MW-20 bench	499.05	42.5 - 92.5	6 in PVC	90.0	44.0	CD pump	6	75	IM extraction well
Water Supply Wells										
PGE-06	MW-24 Bench	563.32	110 - 180	14 in PVC	181.0	107.9	CD pump	24	650	inactive supply
PGE-07	MW-24 Bench	563.89	195 - 330	14 in PVC	332.0	108.7	CD pump	12	600	inactive supply
PGE-08	Station	596.01	405 - 554	8 in PVC	564.0	140.8	CD pump	20	1900	inactive injection
PM-03	Park Moabi	518.55	80 - 200	8 in PVC	252.0	61.3	active supply well			call Park Ranger to schedule sampling

Table 1
Well Construction and Sampling Summary, June 2005
PG&E Topock Groundwater Monitoring Program

NOTES:

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

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

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

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	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
	07-Apr-05		338	318	---	---
	16-Jun-05		320	304	2,800	7.94
	16-Jun-05	FD	322	298	2,820	7.82
MW-10	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
	16-Jun-05		1490	1210	3,290	8.03
MW-11	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
	16-Jun-05		362	334	2,200	8.02
MW-12	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
	06-Apr-05		810	871	---	---
	06-Apr-05	FD	810	868	---	---
	13-Jun-05		852	835	3,910	8.45
MW-13	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
	14-Jun-05		14.8	19.1	1,850	7.62
MW-14	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
	07-Apr-05		34.3	38.0	---	---
	15-Jun-05		30.0	30.4	1,450	8.27
	15-Jun-05	FD	28.4	29.2	1,450	8.30

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-15	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
	17-Jun-05		7.70	8.00	1,500	7.83
MW-16	09-Jun-04		9.00	9.80	1,130	8.13
	16-Dec-04		10.4	10.9	1,230	7.99
MW-17	07-Jun-04		12.7	14.4	1,770	7.82
	16-Dec-04		11.8	9.80	1,800	7.90
MW-18	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
	15-Jun-05		23.2	22.2	1,420	8.10
MW-19	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
	14-Jun-05		1150	1140	2,000	7.71
MW-20-70	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
	07-Apr-05		8740	9020	---	---
	15-Jun-05		6680	6450	2,980	8.02
	15-Jun-05	FD	7000	7080	3,020	7.96
MW-20-100	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
	15-Jun-05		9600	10100	3,790	8.16
MW-20-130	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
	07-Apr-05		8980	8870	---	---
	15-Jun-05		10800	10300	11,000	8.15
MW-21	08-Jun-04		ND (1.0) J	ND (1.0)	11,200	7.69
	14-Jul-04		ND (1.0)	ND (1.0)	---	---
	12-Aug-04		ND (1.0)	ND (1.0)	---	---
	21-Sep-04		ND (1.0)	ND (1.0)	10,000	7.34

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	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
	14-Jun-05		ND (1.0)	ND (1.0)	12,500	7.31
MW-22	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
	17-Jun-05		ND (1.0)	ND (1.0)	31,100	6.95
MW-23	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
	14-Jun-05		8.90	7.70	15,900	7.26
MW-24A	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
	16-Jun-05		3280	2640	3,180	8.09
MW-24B	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
	16-Jun-05		5640	5660	12,700	8.29
MW-24BR	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	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
	07-Apr-05		1620	1700	---	---
	14-Jun-05		1730	1670	1,500	7.65
	14-Jun-05	FD	1760	1660	1,510	7.54
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
	13-Jun-05		3370	3140	3,420	7.57

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-27-20	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
	04-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
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)	---	---
	05-Apr-05	ND (1.0)	ND (1.0)	13,500	---
	12-Apr-05	ND (1.0)	ND (1.0)	---	---
	19-Apr-05	ND (1.0)	ND (1.0)	---	---
	26-Apr-05	ND (1.0)	ND (1.0)	---	---
	04-May-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)	---	---
	23-Mar-05	ND (1.0)	ND (1.0)	---	---
	29-Mar-05	ND (1.0)	ND (1.0)	---	---
	05-Apr-05	ND (1.0)	ND (1.0)	17,200	---
	12-Apr-05	ND (1.0)	ND (1.0)	---	---
	19-Apr-05	ND (1.0)	ND (1.0)	---	---
	26-Apr-05	ND (1.0)	ND (1.0)	---	---
	04-May-05	ND (1.0)	ND (1.0)	---	---
	19-May-05	ND (1.0)	ND (1.0)	---	---
	02-Jun-05	ND (1.0)	ND (1.0)	---	---
MW-28-25	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)	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-28-25	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
	04-Apr-05	ND (0.2)	ND (1.0)	---	---
	03-May-05	ND (0.2)	ND (1.0)	---	---
	15-Jun-05	ND (0.2)	ND (1.0)	1,300	7.90
MW-28-90	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
	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)	---	---
	04-Apr-05	ND (1.0)	ND (1.0)	---	---
	20-Apr-05	ND (1.0)	ND (1.0)	---	---
	03-May-05	ND (1.0)	ND (1.0)	---	---
	19-May-05	ND (1.0)	ND (1.0)	---	---
	02-Jun-05	ND (1.0)	ND (1.0)	---	---
	15-Jun-05	ND (1.0)	ND (1.0)	9,860	8.04
MW-29	09-Jun-04	ND (0.2)	ND (1.0)	2,860	7.62
	13-Jul-04	ND (0.2)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-29	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
	06-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	15-Jun-05		ND (0.2)	ND (1.0)	3,760	7.87
MW-30-30	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)	---	---
	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
	06-Apr-05		ND (2.0)	ND (1.0)	---	---
	09-May-05		ND (2.0)	ND (1.0)	---	---
MW-30-50	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	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	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
	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
	06-Apr-05		18.5	15.5	---	---
	06-Apr-05	FD	17.1 J	13.0	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---
	09-May-05	FD	ND (1.0)	ND (1.0)	---	---
MW-31-60	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
	07-Apr-05		1910	2030	---	---
	13-Jun-05		1790	1810	2,960	7.60
MW-31-135	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
	13-Jun-05		318	344	11,500	7.94
	13-Jun-05	FD	318	338	11,400	8.07
MW-32-20	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
	04-Apr-05		ND (1.0)	ND (1.0)	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-32-20	17-Jun-05		ND (1.0)	ND (1.0)	15,800	6.91
MW-32-35	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)	---	---
	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
	04-Apr-05		ND (1.0)	ND (1.0)	---	---
	09-May-05		ND (1.0)	ND (1.0)	---	---
	17-Jun-05		ND (1.0)	ND (1.0)	12,200	7.19
MW-33-40	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
	04-Apr-05		ND (0.2)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	17-Jun-05		ND (0.2)	ND (1.0)	23300 R	7.91
MW-33-90	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	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	26-Aug-04		14.9	12.3	---	---
	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	---	---
	04-Apr-05		21.3	17.2	---	---
	19-Apr-05		20.3	17.9	---	---
	19-Apr-05	FD	20.0	18.2	---	---
	05-May-05		17.4	16.8	---	---
	18-May-05		15.5	16.3	---	---
	01-Jun-05		17.8	14.0	---	---
	01-Jun-05	FD	16.0	12.7	---	---
	16-Jun-05		15.0	14.2	9,540	8.06
	16-Jun-05	FD	15.7 J	13.4	9,580	8.01
MW-33-150	02-Mar-05		ND (1.0)	ND (1.0)	15,600	---
	02-Mar-05	FD	ND (1.0)	ND (1.0)	15,800	---
	16-Mar-05		ND (1.0)	ND (1.0)	16,900	---
	17-Jun-05		3.10 J	6.40	17,700	7.55
MW-33-210	24-Feb-05		ND (1.0)	ND (2.1) J	18,900	---
	16-Mar-05		1.40	ND (1.0)	18,800	---
	16-Jun-05		5.10 J	1.70 J	21,600	7.89
MW-34-55	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)	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	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
	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
MW-34-80	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)	---	---
	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)	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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	29-Mar-05		ND (1.0)	ND (1.0)	---	---
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	12-Apr-05		ND (1.0)	ND (1.0)	---	---
	19-Apr-05		ND (1.0)	ND (1.0)	---	---
	26-Apr-05		ND (1.0)	ND (1.0)	---	---
	04-May-05		ND (1.0)	ND (1.0)	---	---
	18-May-05		ND (1.0)	ND (1.0)	---	---
	01-Jun-05		ND (1.0)	ND (1.0)	---	---
	30-Jun-05		ND (1.0)	ND (1.0)	15,000	7.52
MW-34-100	14-Feb-05		357	328	---	---
	16-Feb-05		354	294	---	---
	23-Feb-05		417	391	16,000	---
	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	---	---
	05-Apr-05		452	488	16,100	---
	05-Apr-05	FD	455	454	15,900	---
	12-Apr-05		482	502	---	---
	12-Apr-05	FD	499	562	---	---
	19-Apr-05		473	599	---	---
	26-Apr-05		476	573	---	---
	26-Apr-05	FD	480	602	---	---
	04-May-05		491	530	---	---
	10-May-05		513	492	---	---
	10-May-05	FD	501	552	---	---
	18-May-05		524	564	---	---
	25-May-05		559	478	---	---
	01-Jun-05		527	609	---	---
	08-Jun-05		552	583	---	---
	21-Jun-05		560	477	17,300	7.97
	21-Jun-05	FD	578	480	18,000	8.00
MW-35-60	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
	13-Jun-05		33.6	34.1	7,170	7.54
MW-35-135	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

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-35-135	13-Jun-05		17.6	17.6	12,600	7.64
MW-36-20	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	03-May-05		ND (1.0)	ND (1.0)	---	---
MW-36-40	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
	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
MW-36-50	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (1.0)	ND (1.0)	---	---
MW-36-70	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	03-May-05		ND (1.0)	ND (1.0)	---	---
MW-36-90	15-Jun-04		3270	3450	---	---
	23-Sep-04		3370	2780	14,800	7.75

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-36-90	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
	05-Apr-05		1040	946	---	---
	03-May-05		705	623	---	---
MW-36-100	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	---	---
	17-Nov-04		2150	2270	---	---
	02-Dec-04		1860	1620	---	---
	02-Dec-04	FD	1750	1570	---	---
	14-Dec-04		1790	1810	14,700	7.72
	29-Dec-04		1690	1580	---	---
	29-Dec-04	FD	1720	1530	---	---
	12-Jan-05		1520 ~	1470 ~	---	---
	12-Jan-05	FD	1550	1510	---	---
	27-Jan-05		1500	1420	---	---
	27-Jan-05	FD	1420	1490	---	---
	09-Feb-05		1440	1420	---	---
	22-Feb-05		1430	1230	---	---
	22-Feb-05	FD	1390	1250	---	---
	09-Mar-05		1380	1200	16,600	7.74
	22-Mar-05		1250	1180	---	---
	22-Mar-05	FD	1230	1160	---	---
	04-Apr-05		1110	981	---	---
	20-Apr-05		825	844	---	---
	03-May-05		705	679	---	---
	18-May-05		617	796 J	---	---
	18-May-05	FD	620	624 J	---	---
	02-Jun-05		518	441	---	---
MW-37D	11-Jun-04		951	854	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-37D	24-Sep-04		1250	1310	13,900	7.82
	24-Sep-04	FD	1250	1250	14,200	7.85
	14-Dec-04		1480	1520	13,900	7.81
	14-Dec-04	FD	1480	1490	13,900	7.80
	11-Mar-05		1610	1530	13,800	7.72
	15-Jun-05		1390	1540	13,200	8.20
MW-37S	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
	07-Apr-05		5.90	5.40	---	---
	15-Jun-05		2.10	2.60	3,700	8.19
MW-38D	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
	17-Jun-05		202	175	4980 R	8.50
MW-38S	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
	17-Jun-05		807	730	3,790	7.72
MW-39-40	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
	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
	05-Apr-05		ND (1.0)	ND (1.0)	---	---
	05-May-05		ND (0.2)	ND (1.0)	---	---
	16-Jun-05		ND (0.2)	ND (1.0)	6,430	8.03
MW-39-50	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
	06-Apr-05		282 J	237	---	---
	03-May-05		206	204	---	---
	16-Jun-05		66.2	55.4	10,700	7.82

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-39-60	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
	06-Apr-05		914	1080	---	---
	06-Apr-05	FD	914	907	---	---
	05-May-05		450	455	---	---
	05-May-05	FD	460	509	---	---
	16-Jun-05		213	198	13,100	7.72
MW-39-70	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
	05-Apr-05		2280	2080	---	---
	05-May-05		1320	1270	---	---
	16-Jun-05		799	576	11,700	7.65
MW-39-80	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
	06-Apr-05		4820	4570	---	---
	03-May-05		3430	3510	---	---
	16-Jun-05		2220	1930	15,700	7.59
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	---	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-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
	06-Apr-05		8220	8230	---	---
	09-May-05		7980	8490	---	---
	09-May-05	FD	7720	8250	---	---
	17-Jun-05		6980	6030	18,700	7.41
MW-40D	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
	16-Jun-05		7.60	6.40	14,100	7.96
MW-40S	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
	07-Apr-05		4.60	4.40	---	---
	16-Jun-05		6.30	5.30	1,870	8.08
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
	14-Jun-05		ND (1.0)	2.80	23,000	7.73
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
	14-Jun-05		4.80	5.40 J	12,600	7.59
	14-Jun-05	FD	4.60	7.90 J	12,700	7.76
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
	14-Jun-05		11.3	19.0	4,460	7.90
MW-42-30	23-Feb-05		ND (1.0)	ND (1.0)	11,300	---
	16-Mar-05		ND (1.0)	ND (1.0)	13,100	---
MW-42-55	23-Feb-05		ND (1.0)	ND (1.0)	12,600	---
	16-Mar-05		ND (1.0)	ND (1.0)	15,600	---
MW-42-65	24-Feb-05		ND (1.0)	ND (2.8) J	15,400	---
	16-Mar-05		ND (1.0)	ND (1.0)	12,500	---
MW-43-25	07-Mar-05		ND (0.2)	ND (1.0)	1,440	---

Table 2
Groundwater COC Sampling Results
June 2004 through June 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-43-25	15-Mar-05		ND (0.2)	ND (1.0)	1,440	---
	20-Jun-05		ND (0.2)	ND (1.0)	1,740	7.75
MW-43-75	07-Mar-05		ND (1.0)	ND (1.0)	13,300	---
	15-Mar-05		ND (1.0)	ND (1.0)	13,800	---
	20-Jun-05		ND (1.0)	ND (1.0)	14,700	7.84
MW-43-90	07-Mar-05		ND (1.0)	ND (1.0)	19,900	---
	15-Mar-05		ND (1.0)	ND (1.0)	20,100	---
	15-Mar-05	FD	ND (1.0)	ND (1.0)	20,000	---
	20-Jun-05		ND (1.0)	ND (1.0)	25,100	7.38
	20-Jun-05	FD	ND (1.0)	ND (1.0)	24,400	7.37
Park Moabi	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
	15-Jun-05		9.90	8.60	1,200	8.16
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	---	---
	29-Jul-04		5820	5610	---	---
	16-Dec-04		5080	5050	3,270	7.70
	11-Mar-05		4400	4240	3,150	7.65

NOTES:

µg/L	micrograms per liter
µS/cm	microSiemens per centimeter
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 data
(---)	not collected or not available
FD	field duplicate sample

Hexavalent chromium analysis methods: SW 7196A (reporting limit 0.010 mg/L) and SW 7199 (reporting limit 0.0002 mg/L for undiluted samples).

Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), specific conductance (SW 9050), pH (SW 9040).

The following monitoring wells were not sampled during the June quarterly event due to floodplain inaccessibility: MW-27 cluster, MW-30 cluster, MW-34-55, MW-36 cluster and MW-42 cluster. Monitoring well MW-24BR was not sampled due to problems involving the pump.

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

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
CON	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	990	8.16
I-3	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
	07-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	981	8.11
NR-1	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	987	8.04
NR-2	11-Jun-04	ND (0.2)	ND (1.0)	1,040	8.04
	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

Table 3
Surface Water COC Sampling Results
June 2004 through June 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	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	961	8.22
NR-3	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	996	8.03
R-22	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	987	8.09
R-27	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
	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)	---	---

Table 3
Surface Water COC Sampling Results
June 2004 through June 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	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	989	8.10
R-28	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
	06-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	988	8.11
RRB	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)	---	---
	07-Apr-05	ND (0.2)	ND (1.0)	---	---
	04-May-05	ND (0.2)	ND (1.0)	---	---
	14-Jun-05	ND (0.2)	ND (1.0)	986	8.05

NOTES:

µg/L micrograms per liter
µS/cm microSiemens per centimeter
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 decision-making.
(---) data not collected or not available
FD field duplicate sample

Hexavalent chromium analysis methods: SW 7196A (reporting limit 10 µg/L) and SW 7199 (reporting limit 0.2 µg/L)

Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B), specific conductance (SW 9050), pH (SW 9040)

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through June 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
	15-Jun-05	1980	-7	-60.0	749	388	9.79	ND (1)	189	55.4	10.5	433	0.414	73.8
	15-Jun-05 FD	2050	-8.3	-57.0	760	392	9.81	ND (1)	204	60.7	11.4	468	0.445	71.3
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
	15-Jun-05	2500	-4.7	-46.0	921	506	9.02	ND (1)	137	21.3	9.06	592	0.713	84
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
	15-Jun-05	7790	-5	-48.0	3410	1230	11.1	ND (1)	352	23.2	31.3	2980	2.75	68.7
MW-22	07-Jun-04	18000	-9.8	-76.0	8500	1400	ND (4)	---	634	125	27.2	6460	---	360
	17-Jun-05	20800	-9.9	-76.0	9940	2190	ND (0.5)	ND (2.5)	791	197	28.4	6100	2.54	651
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
	14-Jun-05	942	-8.6	-61.0	289	183	3.89	ND (0.5)	93.5	20	8.91	253	0.464	137
	14-Jun-05 FD	980	-7.2	-59.0	294	185	3.94	ND (0.5)	100	20.9	9.06	268	0.475	137
MW-26	03-Mar-04	1900	-6.7	-54.0	770	400	4.6	ND (0.5)	170	40	12	470	0.5	110

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through June 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-26	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
	13-Jun-05	2130	-8.2	-65.0	847	371	4.9	ND (0.5)	178	44.6	14	511	0.663	103
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
	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
	15-Jun-05	974	-11.6	-91.0	108	359	ND (0.5)	ND (0.5)	133	38.9	6.54	117	ND (0.2)	221
MW-28-90	10-Jun-04	6200	-10.2	-76.0	2900	590	ND (0.4)	---	186	23.8	14.2	2190	---	80
	13-Dec-04	5940	-9.2	-79.0	2900	667	ND (0.5) R	0.598	186	25.5	32.2 J	1770	1.42 J	97.5
	15-Jun-05	5750	-9.8	-80.0	2620	720	ND (0.5)	ND (0.5)	172	24.5	13.5	2060	1.08	153
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

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through June 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-30-50	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
	13-Jun-05	1660	-8.2	-65.0	745	207	4.12	ND (0.5)	121	18.9	6.57	403	0.388	70
MW-31-135	10-Jun-04	8100	-10.1	-78.0	3700	530	0.7	---	338	16.5	17	3400	---	35
	13-Jun-05	5800 J	-9.6	-72.0	3300	482	0.953	ND (0.5)	231	14.3	16.2	2170	1.36	32.5
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
	09-Mar-05	12500	-7.2	-65.0	6930	1660	ND (0.5)	3.51	838	302	36.9	4000	2.76	123
	17-Jun-05	10200	-9	-67.0	4810	690	ND (0.5)	ND (2.5)	566	231	23.3	2620	1.75	676
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
	17-Jun-05	7550	-9.5	-72.0	3520	787	ND (0.5)	ND (2.5)	506	120	14.8	2110	1.18	223
MW-33-40	09-Jun-04	2500	-9.3	-62.0	---	---	---	---	9.93	6.54	1.1	1140	---	180
	19-Aug-04	---	---	---	2200 J	780	ND (0.4)	---	---	---	---	---	---	---
	17-Jun-05	9680	-9.4	-67.0	1410	369	ND (0.5)	ND (2.5)	13.6	10.1	2.03	977	0.961	200
MW-33-90	10-Jun-04	4800	-10	-73.0	2400	400	1	---	272	23.8	10.6	1760	---	55
	16-Jun-05	5880	-10	-72.0	2690	394	0.975	ND (0.5)	243	27.5	13.7	1830	1.08	50.1
	16-Jun-05 FD	6210	-9.8	-72.0	2650	396	0.972	ND (0.5)	245	27.2	12.8	1810	1.06	52.6
MW-33-150	16-Mar-05	10700	---	---	5780	732	ND (1)	---	468	59.1	26.3	3510	---	52.8

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through June 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-33-150	17-Jun-05	10700	-10.2	-75.0	5380	709	0.992	ND (2.5)	416	45.8	25	3470	1.06	45
MW-33-210	16-Mar-05	12500	---	---	6210	1030	1.19	---	538	66.6	43.8	4000	---	55.3
	16-Jun-05	13600	-9.3	-79.0	6450	1060	1.26	ND (0.5)	571	99.1	28.8	4290	1.02	65.1
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
	30-Jun-05	7840	-8.4	-82.0	3910	979	ND (0.5)	ND (0.5)	497	76.5	27.7	2670	1.66	302
MW-34-100	14-Mar-05	10800	---	---	5010	1210	ND (1)	---	221	17.4	34.1	3600	---	175
	21-Jun-05	11300	-9.7	-75.0	5350	1270	1.05	ND (0.5)	229	17.4	27.1	3510	2.22	179
	21-Jun-05 FD	10900 J	-9.5	-77.0	4920	1180	1.03	ND (0.5)	243	18.2	32.1	3740	2.36	179
MW-35-60	10-Jun-04	4100	-10.1	-72.0	1700	270	1.8	---	294	36.2	11.2	1140	---	76
	13-Jun-05	4140	-9.5	-72.0	1880	367	2	ND (0.5)	290	37.8	13.5	1220	0.666	70
MW-35-135	10-Jun-04	7600	-10.8	-84.0	3200	940	2	---	434	47.6	16.6	2750	---	50
	13-Jun-05	7400	-10.5	-79.0	3360	953	2.19	ND (0.5)	373	45.7	15.2	2140	0.776	42.5
MW-39-40	18-Jun-04	3500	-5.5	-45.0	1400	580	ND (0.4) J	---	232	16.8	26.7	808	---	140
	16-Jun-05	3660	-6.8	-50.0	1500	536	ND (0.5)	ND (0.5)	214	41.3	13.4	874	0.793	175
MW-39-70	18-Jun-04	6100	-5	-44.0	2400	920	9 J	---	425	36.5	35.7	1390	---	76
	16-Jun-05	9160 J	-8.7	-64.0	3800	919	ND (0.5)	ND (0.5)	495	65.8	22	2550	1.41	223

Table 4
Interim Measures Performance Monitoring Analytical Results, March 2004 through June 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-39-100	15-Jun-04	9300	-6.5	-50.0	4100	1400	9.8	---	577	22.7	68.5	2430	---	58
	15-Jun-04 FD	9200	-6.2	-49.0	4100	1400	9.4	---	584	24.3	69.6	2030	---	58
	17-Jun-05	12200 J	-7.9	-63.0	5820	1510	4.23	ND (2.5)	523	32.3	34.1	3440	1.85	77
MW-41D	15-Dec-04	12400	-10.6	-80.0	6910	713	ND (0.5)	ND (0.5)	365	30.2	74.5	2910	1.88	42.3
	14-Jun-05	14200	-9.5	-78.0	7220	758	ND (0.5)	ND (0.5)	366	30.8	31.7	4450	1.64	38.2
MW-41S	16-Dec-04	2880	-9.9	-73.0	1400	282	1.33	ND (0.5)	105	15.4	15.4	844	0.928	52.5
	14-Jun-05	2760	-9.3	-69.0	732	250	1.3	ND (0.5)	103	15.3	8.79	787	0.755	56
MW-43-25	15-Mar-05	1220	---	---	107	361	ND (1)	---	112	48.6	8.64	117	---	206
	20-Jun-05	1080	-11.8	-96.0	114	380	ND (0.5)	ND (0.5)	118	49.6	6.75	131	ND (0.2)	258
MW-43-75	15-Mar-05	9320	---	---	3900	1540	ND (1)	---	446	88.1	27.9	2840	---	505
	20-Jun-05	9630	-10.7	-85.0	3980	1580	ND (0.5)	0.514	410	75	26.2	3100	1.62	440
MW-43-90	15-Mar-05	14600	---	---	6470	1670	ND (1)	---	781	356	45.5	3640	---	412
	15-Mar-05 FD	14500	---	---	6470	1550	ND (1)	---	790	359	46.1	3730	---	412
	20-Jun-05	15700	-9.9	-79.0	6920	1900	ND (0.5)	ND (0.5)	846	371	45.9	4210	1.44	412
	20-Jun-05 FD	15300	-10	-81.0	6430	1750	ND (0.5)	ND (0.5)	830	363	44.4	4120	1.4	409
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
	14-Jun-05	686	-11.4	-92.0	90.9	266	ND (0.5)	ND (0.5)	81.9	29.8	6.04	98.9	ND (0.2)	127
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
	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
	14-Jun-05	680	-11.6	-95.0	91.2	268	ND (0.5)	ND (0.5)	78.5	28.5	5.08	94.5	ND (0.2)	127

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

NOTES:

FD field duplicate sample
ND parameter not detected at the listed reporting limit
J concentration or reporting estimated by laboratory or data validation
R result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making
(---) parameter not analyzed

Results in milligrams per liter (mg/L), except Oxygen-18 and Deuterium, which are expressed as differences from global standards in parts per thousand.

Alkalinity reported as carbonate (CaCO3). Nitrate reported as Nitrogen (N).

All metal results are dissolved concentrations except for selected unfiltered parameters noted with ^ (total metals concentration).

Table 5
2005 Quarterly Groundwater Monitoring Results - Title 22 Metals, September 2004 through June 2005
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-10		6/16/2005	ND (2.0)	6.39	45.5	ND (1.0)	ND (1.0)	ND (1.0)	**1400**	ND (1.0)	1.53	ND (0.2)	114	1.70	4.90	ND (1.0)	ND (1.0)	33.5	ND (10)
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-11		6/16/2005	ND (2.0)	1.53	42.1	ND (1.0)	ND (1.0)	ND (1.0)	**379**	ND (1.0)	ND (1.0)	ND (0.2)	11.5	1.03	4.50	ND (1.0)	ND (1.0)	8.31	13.4
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-12		6/13/2005	ND (2.0)	**110**	44.1	ND (1.0)	ND (1.0)	ND (1.0)	**957**	ND (1.0)	ND (1.0)	ND (0.2)	77.3	11.7	5.73	ND (1.0)	1.11	34.2	24.4
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-20-70		6/15/2005	ND (2.0)	1.59	47.4	ND (1.0)	ND (1.0)	ND (1.0)	**6430**	ND (1.0)	ND (1.0)	ND (0.2)	17.5	2.41	7.36	ND (1.0)	ND (1.0)	7.46	43.1 J
MW-20-70	FD	6/15/2005	ND (2.0)	1.62	51.8	ND (1.0)	ND (1.0)	ND (1.0)	**7130**	1.86	1.37	ND (0.2)	17.9	2.28	7.83	ND (1.0)	ND (1.0)	8.24	159 J
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-20-130		6/15/2005	ND (2.0)	7.42	26.5	ND (1.0)	ND (1.0)	ND (1.0)	**11300**	1.62	ND (1.0)	ND (0.2)	57.6	ND (1.0)	10.7	ND (1.0)	ND (1.0)	4.13	31.9
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-25		6/14/2005	ND (2.0)	1.81	45.5	ND (1.0)	ND (1.0)	ND (1.0)	**1790**	ND (1.0)	ND (1.0)	ND (0.2)	3.85	2.26	2.72	ND (1.0)	ND (1.0)	11.1	119 J
MW-25	FD	6/14/2005	ND (2.0)	1.93	48.9	ND (1.0)	ND (1.0)	ND (1.0)	**1930**	1.34	ND (1.0)	ND (0.2)	4.13	1.68	2.65	ND (1.0)	ND (1.0)	11.8	16.1 J
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-34-80		6/30/2005	ND (2.0)	2.09	46.4	ND (1.0)	ND (1.0)	1.39	ND (1.0)	2.25	ND (1.0)	ND (0.2)	11.1	2.23	ND (1.0)	ND (1.0)	ND (1.0)	2.74	37.0
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

Table 5
2005 Quarterly Groundwater Monitoring Results - Title 22 Metals, September 2004 through June 2005
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-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-37D	6/15/2005	ND (2.0)	3.63	54.9	ND (1.0)	ND (1.0)	ND (1.0)	**1420**	ND (1.0)	ND (1.0)	ND (0.2)	51.8	25.4	3.10	ND (1.0)	ND (1.0)	4.00	11.0

NOTES:

ND not detected at listed reporting limit
FD field duplicate sample

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

All results are dissolved metals concentrations in µg/L from field-filtered samples.

Metals analyzed by Methods SW 6010B, SW 6020A, and SW7470A.

See Section 2.1 for sampling summary.

Analytes detected above MCL are in bold.

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	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	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
			07-Apr-05	11:51 AM	82.07	0.19	454.47
			18-May-05	6:36 AM	81.10	0.19	455.43
			16-Jun-05	1:32 PM	80.45	0.19	456.08
MW-10	98	530.65	10-Jun-04	9:29 AM	74.15	0.20	456.44
			10-Jun-04	9:29 AM	74.15	0.20	456.44
			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
			18-May-05	6:32 AM	75.21	0.21	455.38
			16-Jun-05	1:07 PM	74.66	0.21	455.93
MW-11	91	522.61	10-Jun-04	8:30 AM	66.08	0.12	456.45
			10-Jun-04	8:30 AM	66.08	0.12	456.45
			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
			18-May-05	6:24 AM	67.12	0.16	455.42
			16-Jun-05	12:22 PM	66.69	0.16	455.85
MW-12	52	484.01	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
			06-Apr-05	1:20 PM	30.07	0.22	453.89
			18-May-05	7:15 AM	28.81	0.22	455.15
			13-Jun-05	9:30 AM	28.54	0.22	455.42
MW-13	52	488.64	09-Jun-04	10:52 AM	31.95	0.11	456.63
			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
			18-May-05	6:12 AM	32.81	0.12	455.77
			14-Jun-05	11:10 AM	32.59	0.12	455.99
MW-14	135	570.99	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
			07-Apr-05	9:04 AM	116.48	0.10	454.45
			18-May-05	7:25 AM	115.29	0.10	455.64

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-14	135	570.99	15-Jun-05	8:58 AM	114.90	0.10	456.02
MW-15	205	641.52	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
			18-May-05	6:43 AM	185.43	0.10	456.02
			17-Jun-05	9:49 AM	185.38	0.10	456.07
MW-16	220	657.31	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
			18-May-05	6:52 AM	201.74	0.09	455.51
MW-17	153	589.96	07-Jun-04	2:20 PM	132.71	0.09	457.18
			16-Dec-04	2:00 PM	134.12	0.10	455.78
			18-May-05	6:51 AM	133.82	0.11	456.07
MW-18	112	545.32	09-Jun-04	10:00 AM	88.49	0.08	456.75
			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
			18-May-05	6:56 AM	89.41	0.09	455.83
			15-Jun-05	8:15 AM	89.05	0.09	456.19
MW-19	67	499.92	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
			18-May-05	6:05 AM	44.20	0.15	455.66
			14-Jun-05	8:55 AM	43.91	0.15	455.95
MW-20-70	71	500.15	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
			07-Apr-05	10:04 AM	46.15	0.14	453.93
			15-Jun-05	8:51 AM	45.02	0.14	455.05
MW-20-100	101	500.58	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
			15-Jun-05	11:12 AM	45.77	0.30	454.71
MW-20-130	133	500.66	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	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	07-Apr-05	10:55 AM	47.28	0.75	453.50
			15-Jun-05	9:51 AM	46.28	0.75	454.49
MW-21	59	505.55	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
			18-May-05	7:02 AM	50.47	0.87	455.10
			14-Jun-05	9:43 AM	50.05	0.87	455.52
MW-22	13	460.72	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
			17-Jun-05	8:42 AM	5.52	1.88	455.28
MW-23	82	507.33	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
			16-Dec-04	10:05 AM	53.23	1.17	454.23
			07-Mar-05	12:48 PM	53.00	1.17	454.46
			14-Jun-05	9:00 AM	51.86	1.16	455.60
MW-24A	127	567.16	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
			18-May-05	6:13 AM	111.75	0.23	455.38
			16-Jun-05	11:21 AM	111.28	0.23	455.84
MW-24B	219	564.76	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
			18-May-05	6:11 AM	109.51	0.82	455.43
			16-Jun-05	10:23 AM	109.01	0.82	455.92
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
			16-Dec-04	9:23 AM	109.10	0.92	455.46
			07-Mar-05	10:04 AM	109.54	0.92	455.03
			18-May-05	6:08 AM	108.29	0.92	456.28

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-25	107	542.90	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
			07-Apr-05	10:04 AM	88.80	0.11	454.04
			18-May-05	6:08 AM	87.52	0.11	455.31
			14-Jun-05	10:08 AM	87.10	0.11	455.74
MW-26	74	502.22	08-Jun-04	12:10 PM	45.75	0.18	456.39
			08-Jun-04	12:10 PM	45.75	0.18	456.39
			22-Sep-04	11:10 AM	47.03	0.20	455.11
			16-Dec-04	12:54 PM	48.30	0.20	453.85
			08-Mar-05	11:20 AM	48.98	0.20	453.17
			18-May-05	6:54 AM	47.08	0.23	455.07
			13-Jun-05	10:04 AM	46.70	0.23	455.46
MW-27-20	19	460.56	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
			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
			08-Mar-05	10:50 AM	8.68	0.03	451.87
			04-Apr-05	1:42 PM	5.87	0.05	454.68
			04-May-05	9:56 AM	4.39	0.05	456.15
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
			29-Mar-05	12:52 PM	7.35	0.95	454.26
			05-Apr-05	9:07 AM	7.33	0.95	454.30
			12-Apr-05	8:27 AM	5.03	0.95	456.61
			19-Apr-05	8:44 AM	5.30	0.95	456.32

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-27-60	59	461.38	26-Apr-05	8:05 AM	5.04	0.95	456.58
			04-May-05	9:13 AM	5.42	0.95	456.20
MW-27-85	80	460.99	01-Mar-05	12:39 PM	8.60	1.31	452.92
			08-Mar-05	9:54 AM	9.42	1.31	452.09
			23-Mar-05	10:32 AM	7.24	1.31	454.27
			29-Mar-05	12:12 PM	7.04	1.31	454.46
			05-Apr-05	8:04 AM	7.00	1.31	454.52
			12-Apr-05	9:06 AM	4.93	1.31	456.61
			19-Apr-05	7:50 AM	5.00	1.31	456.52
			26-Apr-05	8:53 AM	5.41	1.31	456.11
			04-May-05	8:17 AM	5.02	1.31	456.50
			19-May-05	8:39 AM	5.04	1.31	456.48
			02-Jun-05	10:21 AM	5.30	1.31	456.22
MW-28-25	25	466.85	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
			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
			04-Apr-05	8:08 AM	11.91	0.10	454.92
			03-May-05	8:40 AM	10.45	0.10	456.37
			15-Jun-05	9:45 AM	10.60	0.10	456.23
MW-28-90	98	467.66	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-28-90	98	467.66	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
			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	1:46 PM	13.78	0.56	453.86
			04-Apr-05	8:43 AM	13.24	0.58	454.43
			20-Apr-05	7:56 AM	11.30	0.58	456.36
			03-May-05	9:48 AM	11.61	0.58	456.05
			19-May-05	7:25 AM	11.24	0.58	456.42
			02-Jun-05	8:30 AM	11.43	0.58	456.23
			15-Jun-05	10:41 AM	11.93	0.58	455.75
MW-29	42	485.21	09-Jun-04	9:27 AM	28.57	0.10	456.61
			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
			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	10:34 AM	31.90	0.24	453.30
			09-Mar-05	10:27 AM	32.38	0.24	452.82
			06-Apr-05	7:50 AM	30.73	0.30	454.47
			05-May-05	7:56 AM	29.29	0.30	455.91
			15-Jun-05	8:45 AM	29.11	0.30	456.09
MW-30-30	34	468.12	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-30-30	34	468.12	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	11:56 AM	15.35	3.14	453.13
			10-Mar-05	9:56 AM	15.78	3.14	452.68
			06-Apr-05	11:09 AM	14.07	2.97	454.41
			09-May-05	11:46 AM	13.05	2.97	455.44
MW-30-50	52	468.81	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
			10-Mar-05	11:33 AM	17.09	0.58	451.75
			06-Apr-05	9:54 AM	14.00	0.54	454.83
			09-May-05	10:37 AM	13.38	0.54	455.45
MW-31-60	64	496.81	08-Jun-04	12:50 PM	40.27	0.19	456.48
			22-Sep-04	1:47 PM	42.05	0.20	454.71
			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
			07-Apr-05	11:06 AM	42.15	0.20	454.61
			13-Jun-05	11:35 AM	40.96	0.20	455.79
MW-31-135	134	498.11	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-31-135	134	498.11	16-Jun-05	10:20 AM	42.84	0.74	455.39
MW-32-20	22	461.51	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
			04-Apr-05	1:02 PM	7.78	1.75	453.87
			09-May-05	1:05 PM	6.30	1.75	455.36
			17-Jun-05	11:28 AM	6.10	1.75	455.56
MW-32-35	39	461.63	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
			09-Mar-05	2:50 PM	10.06	0.41	451.57
			04-Apr-05	12:17 PM	7.47	0.45	454.17
			09-May-05	12:20 PM	6.10	0.45	455.53
			17-Jun-05	10:52 AM	5.93	0.45	455.70
MW-33-40	42	487.41	09-Jun-04	12:46 PM	31.00	0.20	456.39
			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	11:17 AM	34.15	0.60	453.27
			10-Mar-05	11:20 AM	35.53	0.60	451.88
		487.38	04-Apr-05	9:40 AM	32.93	0.34	454.44

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-33-40	42	487.38	05-May-05	9:54 AM	31.55	0.34	455.82
			17-Jun-05	8:36 AM	31.35	0.34	456.02
MW-33-90	91	487.57	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
			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
			22-Feb-05	1:09 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
		487.55	04-Apr-05	10:00 AM	33.15	0.52	454.42
			19-Apr-05	11:24 AM	32.08	0.52	455.47
			05-May-05	11:06 AM	31.84	0.52	455.71
			18-May-05	12:02 PM	31.80	0.52	455.77
			01-Jun-05	8:40 AM	31.30	0.52	456.27
			16-Jun-05	10:28 AM	31.70	0.52	455.87
MW-33-150	155	487.77	02-Mar-05	9:15 AM	34.89	1.10	453.42
			16-Mar-05	9:17 AM	35.40	1.10	452.90
			16-Jun-05	8:38 AM	32.00	1.10	456.31
MW-33-210	223	487.25	24-Feb-05	8:39 AM	34.75	1.38	453.67
			16-Mar-05	9:45 AM	35.43	1.38	453.00
			16-Jun-05	12:07 PM	32.28	1.38	456.18
MW-34-55	56	460.88	02-Jun-04	8:45 AM	3.85	0.60	457.12

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-34-55	56	460.88	08-Jun-04	10:39 AM	4.13	0.60	456.84
			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	9:11 AM	7.98	0.58	452.99
			10-Mar-05	11:52 AM	9.23	0.58	451.73
		460.95	05-Apr-05	10:00 AM	6.88	0.54	454.14
			05-May-05	12:50 PM	5.53	0.54	455.48
MW-34-80	84	460.99	02-Jun-04	11:37 AM	4.73	0.90	456.56
			08-Jun-04	12:40 PM	4.85	0.80	456.38
			08-Jun-04	12:40 PM	4.85	0.80	456.38
			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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	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	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
			22-Feb-05	2:33 PM	8.90	0.87	452.38
			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	11:00 AM	7.45	0.87	453.82
			29-Mar-05	9:15 AM	7.08	0.87	454.19
		461.20	05-Apr-05	11:06 AM	7.31	0.77	454.15
			12-Apr-05	11:07 AM	5.52	0.77	455.95
			19-Apr-05	10:35 AM	5.34	0.77	456.09
			26-Apr-05	11:00 AM	5.68	0.77	455.74
			04-May-05	11:09 AM	5.57	0.77	455.86
			18-May-05	9:38 AM	5.18	0.77	456.27
			01-Jun-05	10:43 AM	5.23	0.77	456.22
			30-Jun-05	11:56 AM	5.48	0.77	455.97
MW-34-100	117	460.90	14-Feb-05	11:34 AM	8.21	1.17	453.32
			14-Feb-05	10:22 AM	8.19	1.17	453.34
			16-Feb-05	1:10 PM	9.18	1.17	452.34
			16-Feb-05	12:13 PM	9.15	1.17	452.37
			23-Feb-05	9:27 AM	8.79	1.17	452.77
			01-Mar-05	10:52 AM	8.70	1.17	452.85
			08-Mar-05	12:15 PM	9.56	1.17	451.97
			23-Mar-05	11:16 AM	7.31	1.17	454.21
			29-Mar-05	10:37 AM	7.05	1.17	454.50
		460.96	05-Apr-05	1:00 PM	6.98	1.17	454.60
			12-Apr-05	10:05 AM	5.21	1.17	456.38
			19-Apr-05	9:55 AM	5.36	1.17	456.23
			26-Apr-05	10:04 AM	5.52	1.17	456.07
			04-May-05	1:02 PM	5.94	1.17	455.65
			10-May-05	7:04 AM	4.79	1.17	456.81
			18-May-05	8:52 AM	5.16	1.17	456.43
			25-May-05	9:20 AM	5.00	1.17	456.61
			01-Jun-05	12:24 PM	5.65	1.17	455.97
			08-Jun-05	8:23 AM	4.96	1.17	456.67
			21-Jun-05	10:08 AM	5.25	1.17	456.34
MW-35-60	60	484.19	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
			13-Jun-05	11:53 AM	27.95	0.41	456.22

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-35-135	159	483.57	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
			13-Jun-05	12:44 PM	28.00	0.67	455.73
MW-36-20	23	469.32	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
		469.26	03-May-05	8:40 AM	13.40	1.90	455.96
MW-36-40	43	469.64	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
		469.61	05-May-05	11:33 AM	14.10	0.62	455.55
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
			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
		469.60	05-May-05	12:07 PM	14.17	0.54	455.45
MW-36-70	73	469.31	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
			08-Mar-05	12:02 PM	17.70	0.63	451.69
		469.25	03-May-05	10:02 AM	13.44	0.73	455.93

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-36-90	93	469.68	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
		469.61	03-May-05	10:57 AM	14.53	1.16	455.48
MW-36-100	110	469.69	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
			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
		469.64	04-Apr-05	11:28 AM	16.08	1.30	454.13
			20-Apr-05	8:34 AM	14.35	1.30	455.87
			03-May-05	12:35 PM	14.82	1.30	455.40
			18-May-05	1:22 PM	14.94	1.30	455.31
			02-Jun-05	9:22 AM	14.26	1.30	455.96
MW-37D	227	486.19	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
			18-May-05	6:18 AM	31.25	0.93	455.35
			15-Jun-05	11:55 AM	30.88	0.93	455.72
MW-37S	87	485.97	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
			07-Apr-05	12:57 PM	32.20	0.25	453.63

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-37S	87	485.97	18-May-05	6:20 AM	31.00	0.25	454.83
			15-Jun-05	10:53 AM	30.67	0.25	455.15
MW-38D	191	525.31	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
			18-May-05	6:29 AM	70.93	1.32	454.96
			17-Jun-05	8:46 AM	70.48	1.32	455.40
MW-38S	98	525.51	11-Jun-04	8:57 AM	69.62	0.23	455.81
			11-Jun-04	8:57 AM	69.62	0.23	455.81
			17-Jun-04	12:10 PM	69.55	0.24	455.89
			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
			18-May-05	6:27 AM	70.72	0.25	454.73
			17-Jun-05	8:01 AM	70.25	0.25	455.19
MW-39-40	42	468.02	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
			05-May-05	8:59 AM	12.25	0.38	455.75
			16-Jun-05	10:10 AM	12.00	0.38	456.01
MW-39-50	50	467.93	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
			06-Apr-05	7:55 AM	13.21	0.67	454.77
			03-May-05	12:45 PM	13.80	0.67	454.18
			16-Jun-05	12:35 PM	12.00	0.67	455.99
MW-39-60	66	468.00	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-39-60	66	468.00	09-Mar-05	12:35 PM	16.92	0.67	451.15
			05-May-05	9:41 AM	12.69	0.77	455.42
			16-Jun-05	11:43 AM	12.00	0.77	456.13
MW-39-70	72	468.02	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
			05-May-05	8:10 AM	12.89	0.65	455.21
			16-Jun-05	10:53 AM	12.00	0.65	456.11
MW-39-80	83	467.92	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
			03-May-05	1:16 PM	13.35	0.90	454.78
			16-Jun-05	1:10 PM	12.00	0.90	456.16
MW-39-100	118	468.01	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
			10-Mar-05	1:48 PM	16.80	0.89	451.50
			06-Apr-05	11:35 AM	14.10	1.30	454.51
			09-May-05	9:30 AM	13.07	1.30	455.54
			17-Jun-05	9:50 AM	13.60	1.30	455.00
MW-40D	266	566.08	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
			18-May-05	7:09 AM	111.26	0.97	455.13
			16-Jun-05	8:48 AM	110.81	0.97	455.57
MW-40S	134	566.04	14-Jun-04	8:15 AM	109.60	0.10	456.34
			14-Jun-04	8:15 AM	109.60	0.10	456.34

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Monitoring Wells							
MW-40S	134	566.04	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
			07-Apr-05	7:50 AM	112.00	0.12	453.96
			18-May-05	7:11 AM	110.80	0.12	455.16
			16-Jun-05	8:00 AM	110.36	0.12	455.59
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
			18-May-05	6:25 AM	24.36	1.36	456.65
			14-Jun-05	8:10 AM	23.98	1.36	456.98
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
			18-May-05	6:26 AM	24.16	1.11	456.35
			14-Jun-05	9:31 AM	23.83	1.11	456.65
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
			18-May-05	6:27 AM	24.13	0.16	455.84
			14-Jun-05	10:21 AM	23.86	0.16	456.10
MW-42-30	32	463.90	23-Feb-05	1:27 PM	11.60	0.88	452.38
		463.81	16-Mar-05	11:02 AM	12.10	0.88	451.78
MW-42-55	56	464.00	23-Feb-05	2:03 PM	11.63	0.93	452.51
		463.87	16-Mar-05	11:45 AM	12.12	0.93	451.92
MW-42-65	80	463.49	24-Feb-05	9:58 AM	11.13	1.21	452.75
		463.37	16-Mar-05	12:15 PM	11.75	1.21	452.02
MW-43-25	27	462.54	07-Mar-05	10:34 AM	10.62	0.10	451.90
			15-Mar-05	10:10 AM	10.72	0.09	451.80
			20-Jun-05	10:30 AM	6.23	0.10	456.29
MW-43-75	77	462.71	07-Mar-05	10:37 AM	10.74	0.88	452.24
			15-Mar-05	10:43 AM	10.27	0.88	452.72
			20-Jun-05	8:21 AM	6.18	0.91	456.84
MW-43-90	102	462.76	07-Mar-05	10:39 AM	10.94	1.32	452.46
			15-Mar-05	11:13 AM	11.11	1.32	452.30
			20-Jun-05	8:21 AM	6.18	1.33	457.27
Other Wells not in GMP							
CW-1D	322	566.46	18-May-05	6:37 AM	110.86	0.71	455.88
CW-1M	191	566.07	18-May-05	6:36 AM	110.35	0.24	455.56
CW-2D	355	549.43	18-May-05	6:33 AM	93.89	0.93	456.27

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Other Wells not in GMP							
CW-2M	202	549.45	18-May-05	6:35 AM	93.60	0.42	455.79
CW-3D	342	534.14	18-May-05	6:40 AM	78.84	1.17	456.50
CW-3M	224	534.10	18-May-05	6:42 AM	78.31	0.56	455.83
CW-4D	305	518.55	18-May-05	6:11 AM	63.11	0.95	456.14
CW-4M	171	518.55	18-May-05	6:12 AM	62.69	0.40	455.77
MW-1	217	661.76	18-May-05	6:27 AM	206.81	0.04	454.91
MW-3	205	650.51	18-May-05	6:02 AM	195.92	0.09	454.56
MW-4	179	625.73	18-May-05	6:14 AM	170.41	0.07	455.29
MW-5	190	635.69	18-May-05	6:07 AM	180.10	0.09	455.56
MW-6	198	642.84	18-May-05	6:23 AM	187.22	0.04	455.58
MW-7	185	631.91	18-May-05	6:20 AM	176.86	0.07	455.02
MW-8	183	627.54	18-May-05	6:07 AM	171.75	0.07	455.75
MWP-8	213	677.48	18-May-05	6:17 AM	189.51	0.00	---
MWP-10	237	675.81	18-May-05	6:33 AM	208.64	0.00	---
MWP-12	143	663.49	18-May-05	6:43 AM	107.85	0.00	---
OW-1D	281	550.36	18-May-05	6:30 AM	94.83	0.65	455.58
OW-1M	189	550.36	18-May-05	6:32 AM	94.61	0.34	455.60
OW-1S	114	550.15	18-May-05	6:31 AM	94.37	0.17	455.75
OW-2D	342	549.01	18-May-05	6:27 AM	93.82	0.96	455.80
OW-2M	211	548.52	18-May-05	6:24 AM	92.88	0.50	455.59
OW-2S	121	548.75	18-May-05	6:26 AM	92.95	0.14	455.73
OW-3D	274	558.63	18-May-05	6:06 AM	102.60	0.29	455.62
OW-3M	202	558.90	18-May-05	6:05 AM	102.95	0.24	455.70
OW-3S	118	558.58	18-May-05	6:03 AM	102.61	0.13	455.92
OW-5D	352	552.35	18-May-05	6:20 AM	96.93	0.66	455.49
OW-5M	254	551.75	18-May-05	6:19 AM	96.07	0.46	455.58
OW-5S	113	551.75	18-May-05	6:18 AM	95.95	0.13	455.74
PGE-6	181	563.32	18-May-05	6:20 AM	107.93	0.26	455.24
PGE-7	332	563.89	18-May-05	6:16 AM	108.65	0.88	455.78
PGE-8	564	596.01	18-May-05	5:52 AM	140.75	1.11	456.71
Surface Water Stations							
I-3	---	460.30	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

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

Location	Well Depth (feet BMP)	Measuring Point Elevation (feet AMSL)[1]	Monitoring Date & Time		Water Level Measurement (feet BMP)	Salinity (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
Surface Water Stations							
I-3	---	460.30	01-Mar-05	12:18 PM	7.80	0.00	452.50
			07-Apr-05	8:08 AM	4.27	0.00	456.03
			04-May-05	12:57 PM	5.35	0.00	454.95
RRB	---	476.63	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
			07-Apr-05	9:03 AM	20.35	0.00	456.28
			14-Jun-05	11:15 AM	20.99	0.00	455.64

NOTES:

BGS below ground surface
AMSL above mean sea level
BMP below well measure point
(---) data not collected or available.

[1] Measuring Point Elevations were re-surveyed in Febuary 2004.

Well depths rounded off to whole foot.

The water levels measured in the MW-20 monitoring well cluster may be affected by active IM pumping in the TW-2D extraction well.

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-9	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
	07-Apr-05	---	30.60	7.33	117	6.59
	16-Jun-05	2,760	36.29	7.48	78	4.93
MW-10	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
	16-Jun-05	3,370	31.69	7.57	59	3.71
MW-11	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
	16-Jun-05	2,230	32.54	7.46	65	5.60
MW-12	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
	06-Apr-05	---	28.30	8.27	56	6.34
	13-Jun-05	4,060	29.70	8.39	60	6.97
MW-13	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
	14-Jun-05	1,820	31.28	7.42	65	8.47
MW-14	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
	07-Apr-05	---	28.70	7.66	75	6.58
	15-Jun-05	1,460	33.56	7.30	177	---
MW-15	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
	17-Jun-05	2,220	30.90	7.79	-30	7.73
MW-16	09-Jun-04	1,290	29.41	8.01	21	---
	16-Dec-04	1,690	28.80	7.89	-6	5.54

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-17	07-Jun-04	1,870	32.25	8.86	50	---
	16-Dec-04	1,540	30.00	7.82	187	---
MW-18	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
	15-Jun-05	1,540	30.18	7.24	165	---
MW-19	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
	14-Jun-05	2,170	29.30	7.61	65	6.80
MW-20-70	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
	07-Apr-05	---	29.30	7.75	92	6.63
	15-Jun-05	3,160	29.69	7.72	152	6.85
MW-20-100	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
	15-Jun-05	3,870	29.50	7.77	136	3.44
MW-20-130	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
	07-Apr-05	11,000	29.40	7.88	99	4.89
	15-Jun-05	10,600	29.65	7.73	145	4.66
MW-21	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
	14-Jun-05	12,000	30.30	7.30	81	6.80
MW-22	07-Jun-04	24,500	25.40	6.95	-67	2.60
	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
	17-Jun-05	33,700	23.99	6.93	-57	3.23
MW-23	08-Jun-04	17,300	28.46	7.66	-66	4.86

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-23	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
	14-Jun-05	19,500	28.70	7.43	23	7.80
MW-24A	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
	16-Jun-05	3,470	31.73	7.70	52	2.70
MW-24B	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
	16-Jun-05	13,100	35.51	7.93	-4	2.20
MW-24BR	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	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
	07-Apr-05	---	29.70	7.41	95	7.30
	14-Jun-05	1,620	30.30	7.56	107	6.90
MW-26	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
	13-Jun-05	3,820	32.12	7.49	119	9.16
MW-27-20	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	---

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-27-20	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
	04-Apr-05	2,580	18.50	7.58	-194	0.00
	04-May-05	1,280	19.10	7.54	-176	0.40
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
	05-Apr-05	16,700	22.30	7.24	-157	0.05
	12-Apr-05	13,800	22.30	7.16	-146	0.20
	19-Apr-05	---	21.38	7.93	---	---
	26-Apr-05	22,100	22.48	7.24	-111	7.00
	04-May-05	14,400	23.20	7.28	-114	0.40
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
	05-Apr-05	19,700	22.30	7.11	-134	1.97
	12-Apr-05	16,900	22.60	7.09	-134	0.09
	19-Apr-05	---	21.52	7.90	---	---
	26-Apr-05	18,100	21.84	7.41	-138	5.72
	04-May-05	18,500	23.00	7.12	-128	0.40
	19-May-05	19,600	23.00	7.60	-131	1.00
	02-Jun-05	19,500	23.00	7.08	-100	0.95
MW-28-25	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-28-25	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
	04-Apr-05	1,590	22.40	7.31	-108	0.10
	03-May-05	1,280	23.00	7.41	-59	0.40
	15-Jun-05	1,460	23.70	7.71	-54	2.70
MW-28-90	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
	04-Apr-05	12,600	22.10	7.56	-172	0.44
	20-Apr-05	9,990	22.14	7.88	-93	3.94
	03-May-05	10,600	23.40	7.68	-208	0.40
	19-May-05	9,110	24.40	7.60	-147	0.80
	02-Jun-05	---	23.70	7.62	-141	1.01
	15-Jun-05	9,410	23.50	8.19	-205	2.50
MW-29	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
	06-Apr-05	22,700	25.20	7.01	-128	2.03
	05-May-05	---	27.70	7.38	-142	0.05

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-29	15-Jun-05	6,580	29.80	7.10	-108	3.10
MW-30-30	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
	10-Mar-05	65,900	24.62	7.25	-84	4.11
	06-Apr-05	38,000	26.70	6.90	-143	0.32
	09-May-05	47,700	27.20	6.87	-131	0.31
MW-30-50	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
	06-Apr-05	14,000	26.40	7.22	-252	0.49
	09-May-05	14,200	27.40	7.15	-100	0.33
MW-31-60	08-Jun-04	3,790	29.14	7.66	80	8.46

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-31-60	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
	07-Apr-05	---	30.50	7.54	102	5.25
	13-Jun-05	3,060	29.52	7.70	122	8.00
MW-31-135	10-Jun-04	13,100	29.58	7.68	-30	0.60
	23-Sep-04	9,500	30.45	7.78	17	5.03
	14-Dec-04	13,700	28.59	7.70	-23	6.15
	10-Mar-05	12,500	30.00	7.86	42	1.49
	13-Jun-05	14,600	30.90	7.85	42	4.46
MW-32-20	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
	04-Apr-05	26,000	25.30	6.95	-178	0.02
	09-May-05	20,600	24.70	6.73	-121	0.18
	17-Jun-05	15,500	25.70	7.13	-188	2.40
MW-32-35	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
	04-Apr-05	9,800	25.90	7.36	-197	0.10
	09-May-05	13,600	26.50	7.17	-164	0.24
	17-Jun-05	12,800	27.70	7.57	-202	2.30
MW-33-40	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-33-40	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
	07-Feb-05	7,540	27.20	7.96	-162	0.65
	09-Mar-05	7,050	27.90	7.97	-125	3.28
	04-Apr-05	9,900	26.60	8.15	-160	0.73
	05-May-05	5,760	28.00	8.22	-90	0.55
	17-Jun-05	5,460	27.80	8.61	-94	5.40
MW-33-90	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
	04-Apr-05	13,300	27.40	7.72	-98	0.34
	19-Apr-05	8,830	28.04	7.99	---	4.00
	05-May-05	8,250	29.00	7.75	-244	0.28
	18-May-05	---	28.80	7.50	-141	1.61
	01-Jun-05	12,000	29.50	7.61	-53	0.41
	16-Jun-05	9,500	29.90	8.22	-209	2.10
MW-33-150	02-Mar-05	15,900	26.50	7.70	-120	4.57
	16-Mar-05	21,600	26.00	7.30	-175	1.60

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-33-150	17-Jun-05	18,300	29.40	7.80	-172	3.00
MW-33-210	24-Feb-05	22,200	27.19	7.98	-116	4.91
	16-Mar-05	25,300	27.00	7.59	-103	0.58
	16-Jun-05	22,400	30.60	7.87	-216	2.00
MW-34-55	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
	05-Apr-05	12,400	23.10	7.35	-110	0.68
	05-May-05	8,860	22.60	7.37	-99	0.06
MW-34-80	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	---
	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-80	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
	05-Apr-05	17,200	23.30	7.19	-207	0.01
	12-Apr-05	14,200	23.60	7.17	-86	0.08
	19-Apr-05	13,800	22.95	7.45	4	5.09
	26-Apr-05	13,700	23.56	7.34	-94	3.55
	04-May-05	15,900	23.70	7.20	-241	0.30
	18-May-05	16,000	24.40	6.99	-138	1.33
	01-Jun-05	17,800	27.30	6.98	-117	0.37
	30-Jun-05	18,300	33.70	7.28	-61	1.57
MW-34-100	14-Feb-05	25,000	23.00	7.63	-246	0.18
	16-Feb-05	20,400	23.62	7.95	-159	5.32
	23-Feb-05	18,000	22.09	7.34	-35	1.37
	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
	05-Apr-05	20,000	24.50	7.43	-115	0.31
	12-Apr-05	15,500	24.80	7.40	-61	0.18
	19-Apr-05	16,200	24.20	7.68	8	5.96
	26-Apr-05	21,000	24.12	7.60	-45	4.09
	04-May-05	18,700	24.40	7.48	-98	0.60
	10-May-05	15,800	22.59	7.37	21	3.01
	18-May-05	19,000	24.60	7.22	50	3.01
	25-May-05	18,700	25.30	7.47	-93	1.20
	01-Jun-05	20,000	25.60	7.45	-59	0.42
	08-Jun-05	20,300	23.70	7.93	-15	2.30
	21-Jun-05	20,500	27.90	7.33	-26	1.93
MW-35-60	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
	13-Jun-05	---	29.60	7.27	-8	2.47
MW-35-135	10-Jun-04	12,500	27.79	7.48	14	2.02
	23-Sep-04	9,400	28.51	7.60	-50	5.19

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-35-135	13-Dec-04	---	27.10	7.71	-75	0.12
	15-Mar-05	10,800	27.00	8.09	-108	2.11
	13-Jun-05	15,000	28.50	7.60	-138	1.75
MW-36-20	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	29,500	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
	09-Mar-05	22,600	25.39	7.61	-88	7.59
	05-Apr-05	20,000	24.55	7.63	-92	5.26
	03-May-05	10,200	25.13	7.63	-180	3.51
MW-36-40	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
	05-Apr-05	11,200	25.61	7.67	-162	5.34
	05-May-05	10,300	25.62	7.58	-180	2.74
MW-36-50	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
	05-Apr-05	9,320	25.68	7.60	-129	5.55
	05-May-05	9,330	25.64	7.52	-137	2.10
MW-36-70	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
	05-Apr-05	9,990	25.02	7.37	-48	5.55
	03-May-05	12,300	25.70	7.28	-103	0.00

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-90	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
	05-Apr-05	15,100	25.23	7.63	64	5.27
	03-May-05	17,600	25.90	7.39	55	0.00
MW-36-100	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
	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
	04-Apr-05	19,600	25.40	7.42	-20	0.07
	20-Apr-05	17,500	25.27	7.63	2	3.12
	03-May-05	18,700	26.90	7.36	4	0.40
	18-May-05	34,800	27.00	7.16	12	1.52
	02-Jun-05	18,800	27.20	7.38	23	2.48
MW-37D	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	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
	07-Apr-05	---	31.10	7.67	-68	1.99
	15-Jun-05	3,930	33.65	7.70	-71	8.07
MW-38D	10-Jun-04	21,900	30.93	7.75	-61	0.48
	23-Sep-04	17,400	31.77	7.76	15	4.51

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-38D	14-Dec-04	---	28.77	7.25	99	5.44
	11-Mar-05	23,500	30.47	8.00	56	3.95
	17-Jun-05	22,200	31.90	8.01	68	1.66
MW-38S	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
	17-Jun-05	4,540	30.20	7.48	55	2.87
MW-39-40	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
	05-Apr-05	6,200	26.51	7.82	-179	5.42
	05-May-05	6,070	26.53	7.75	-179	1.78
	16-Jun-05	9,600	27.10	7.59	-202	2.09
MW-39-50	18-Jun-04	9,380	28.30	7.49	-40	3.48
	20-Oct-04	8,700	26.87	7.38	18	7.10
	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
	06-Apr-05	12,400	25.88	7.23	81	4.43
	03-May-05	14,300	27.20	7.33	56	0.04
	16-Jun-05	15,200	27.30	7.33	-44	1.98
MW-39-60	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
	06-Apr-05	12,600	26.27	7.21	84	4.30
	05-May-05	14,600	26.56	7.27	43	1.98
	16-Jun-05	17,600	27.30	7.13	19	1.86
MW-39-70	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-39-70	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
	05-Apr-05	11,500	26.28	7.44	61	5.76
	05-May-05	12,500	26.09	7.27	98	1.92
	16-Jun-05	16,000	26.70	7.15	22	1.81
MW-39-80	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
	06-Apr-05	13,800	26.03	7.32	88	4.65
	03-May-05	14,900	27.00	7.23	106	0.37
	16-Jun-05	16,800	27.60	7.17	52	1.99
MW-39-100	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
	06-Apr-05	---	27.40	7.40	54	1.53
	09-May-05	20,400	28.30	7.33	159	1.75
	17-Jun-05	19,200	29.30	7.89	14	2.80
MW-40D	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
	10-Mar-05	17,200	30.93	7.59	-19	1.49
	16-Jun-05	14,500	33.36	7.60	-149	1.96
MW-40S	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
	07-Apr-05	---	30.00	7.56	26	7.65
	16-Jun-05	1,900	32.27	7.72	143	5.97
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
	14-Jun-05	21,000	31.67	7.75	-212	3.17

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
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
	14-Jun-05	13,800	30.90	7.62	-106	2.78
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
	14-Jun-05	4,460	30.36	7.79	-45	4.28
MW-42-30	23-Feb-05	12,600	23.31	7.20	-175	1.47
	16-Mar-05	17,800	24.71	7.29	-136	1.21
MW-42-55	23-Feb-05	13,600	23.71	7.36	-188	0.95
	16-Mar-05	17,100	25.46	7.51	-191	0.51
MW-42-65	24-Feb-05	20,500	24.64	7.41	-119	5.03
	16-Mar-05	21,400	25.51	7.10	-126	0.55
MW-43-25	07-Mar-05	1,690	20.30	7.17	-161	6.05
	15-Mar-05	1,660	19.68	7.67	-177	4.59
	20-Jun-05	1,800	21.00	7.36	-174	1.88
MW-43-75	07-Mar-05	15,200	21.70	7.29	-150	5.60
	15-Mar-05	14,900	20.86	7.60	-178	0.49
	20-Jun-05	18,100	21.80	7.31	-165	1.78
MW-43-90	07-Mar-05	21,500	22.20	6.94	-185	0.23
	15-Mar-05	22,000	20.93	7.28	-153	0.47
	20-Jun-05	26,200	22.30	6.86	-140	1.79
Park Moabi	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
	15-Jun-05	1,440	31.08	8.13	158	5.93
TW-1	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
Surface Water Stations						
CON	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
CON	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
	06-Apr-05	1,120	16.41	8.48	125	10.08
	04-May-05	1,080	19.40	8.24	141	9.84
	14-Jun-05	2,170	21.80	8.27	132	9.65
I-3	15-Jul-04	1,080	21.10	7.54	110	10.41
	10-Aug-04	1,370	23.46	6.63	126	13.08
	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
	07-Apr-05	1,160	15.51	8.22	117	11.63
	04-May-05	1,090	18.90	8.20	181	9.84
	14-Jun-05	2,040	21.20	8.17	101	9.72
NR-1	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
	06-Apr-05	1,130	16.50	8.47	116	10.28
	04-May-05	1,090	18.80	8.17	165	9.77
	14-Jun-05	2,090	20.20	8.07	134	9.03
NR-2	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
NR-2	08-Mar-05	1,160	15.89	---	144	10.74
	06-Apr-05	1,140	16.43	8.44	124	10.41
	03-May-05	1,090	18.80	8.24	172	9.83
	14-Jun-05	1,900	20.00	8.17	126	9.20
NR-3	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
	08-Feb-05	1,080	12.71	8.26	224	13.93
	08-Mar-05	1,160	15.70	---	152	9.26
	06-Apr-05	1,120	16.42	8.46	124	9.92
	04-May-05	1,090	18.80	8.25	175	9.83
	14-Jun-05	1,890	20.10	8.23	121	9.14
R-22	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
	06-Apr-05	1,120	16.69	8.15	110	10.20
	04-May-05	1,080	18.60	8.10	176	9.58
	14-Jun-05	1,960	21.40	8.18	128	9.58
R-27	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

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

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Surface Water Stations						
R-27	06-Apr-05	1,150	18.35	8.44	96	9.90
	04-May-05	1,080	18.80	8.23	167	9.51
	14-Jun-05	1,770	22.20	8.24	121	9.43
R-28	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
	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
	06-Apr-05	1,230	17.01	8.43	73	10.55
	04-May-05	1,080	18.90	8.24	167	9.72
	14-Jun-05	1,610	21.70	8.25	120	9.42
RRB	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
	07-Apr-05	1,170	16.91	8.22	78	10.78
	04-May-05	1,090	21.00	8.04	106	9.58
	14-Jun-05	---	26.20	8.23	121	8.90

NOTES:

µS/cm microSiemens per centimeter
ORP oxidation reduction potential, results rounded off to whole point
mV millivolts
mg/L milligrams per liter
(---) data not collected, not available, or rejected

All field measurements were collected during groundwater / surface water sampling using a Horiba U-22 water quality meter and/or Orion pH/ORP meter.

Figures

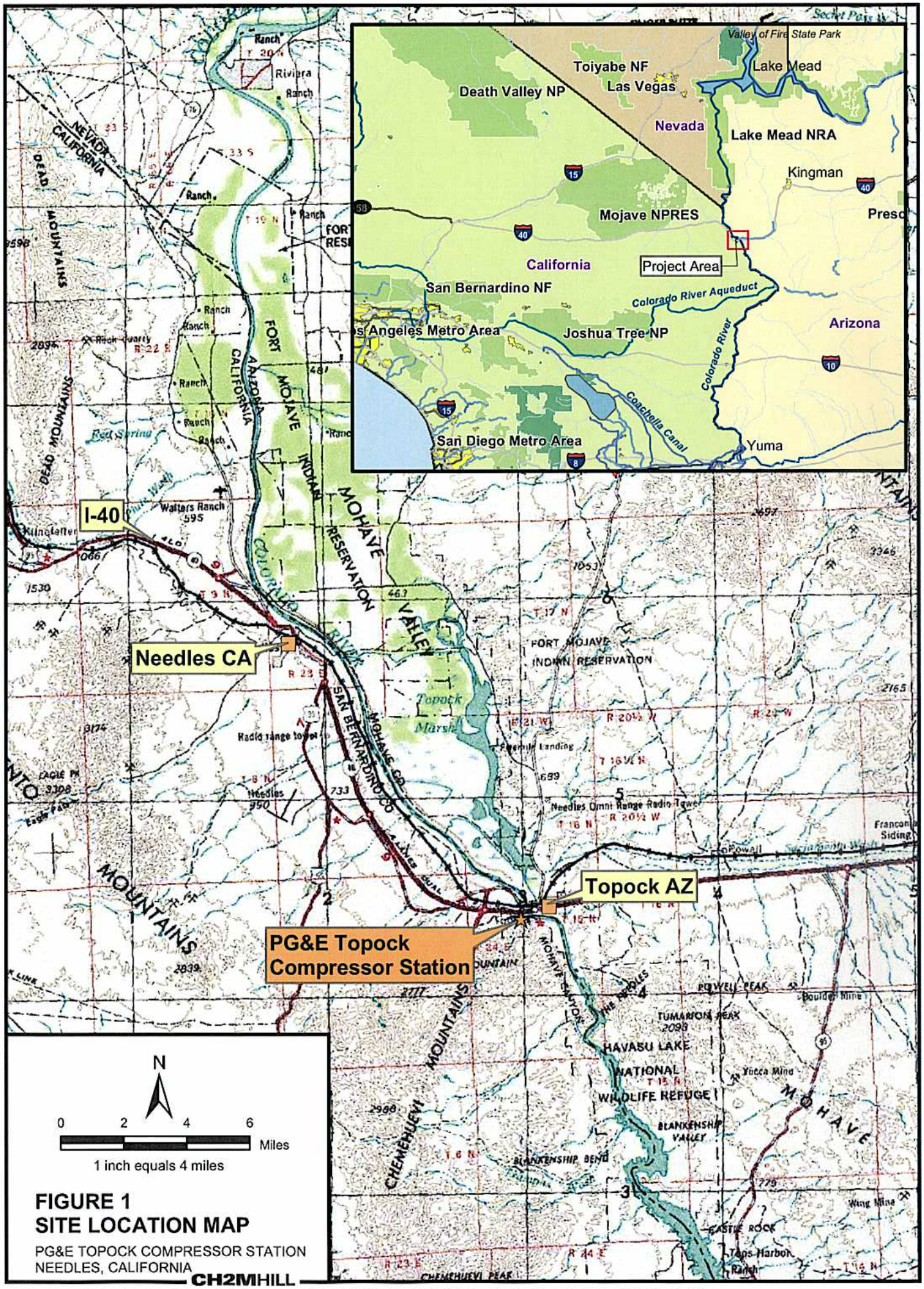
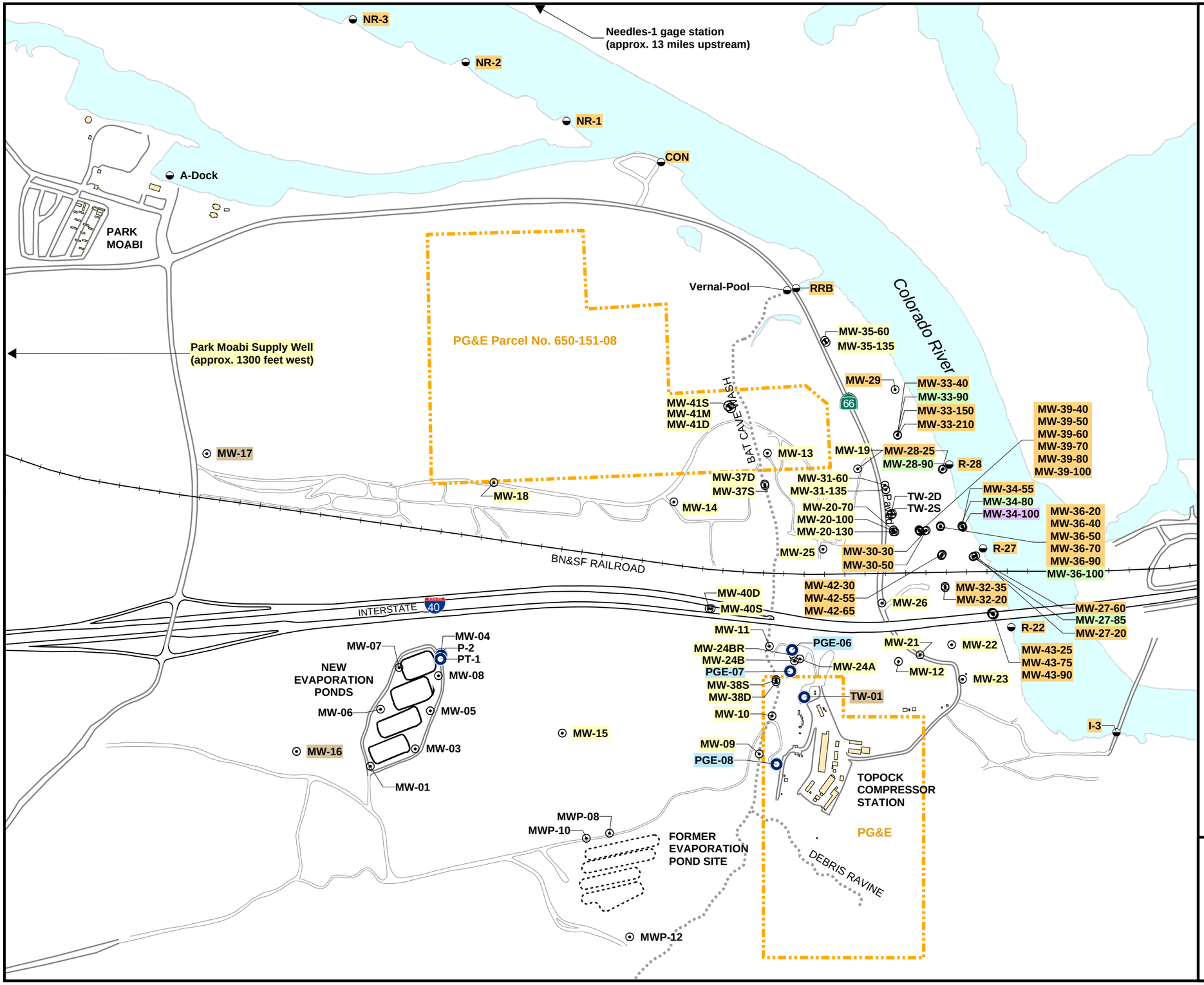


FIGURE 1
SITE LOCATION MAP

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

SFO \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2005\LOCATION_MAP_PORTRAIT.MXD
LOCATION_MAP_PORTRAIT.PDF 4/19/2005 09:57:06



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) - June 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
MW-34-100	Weekly Sampling

N

0 800 1,600 Feet

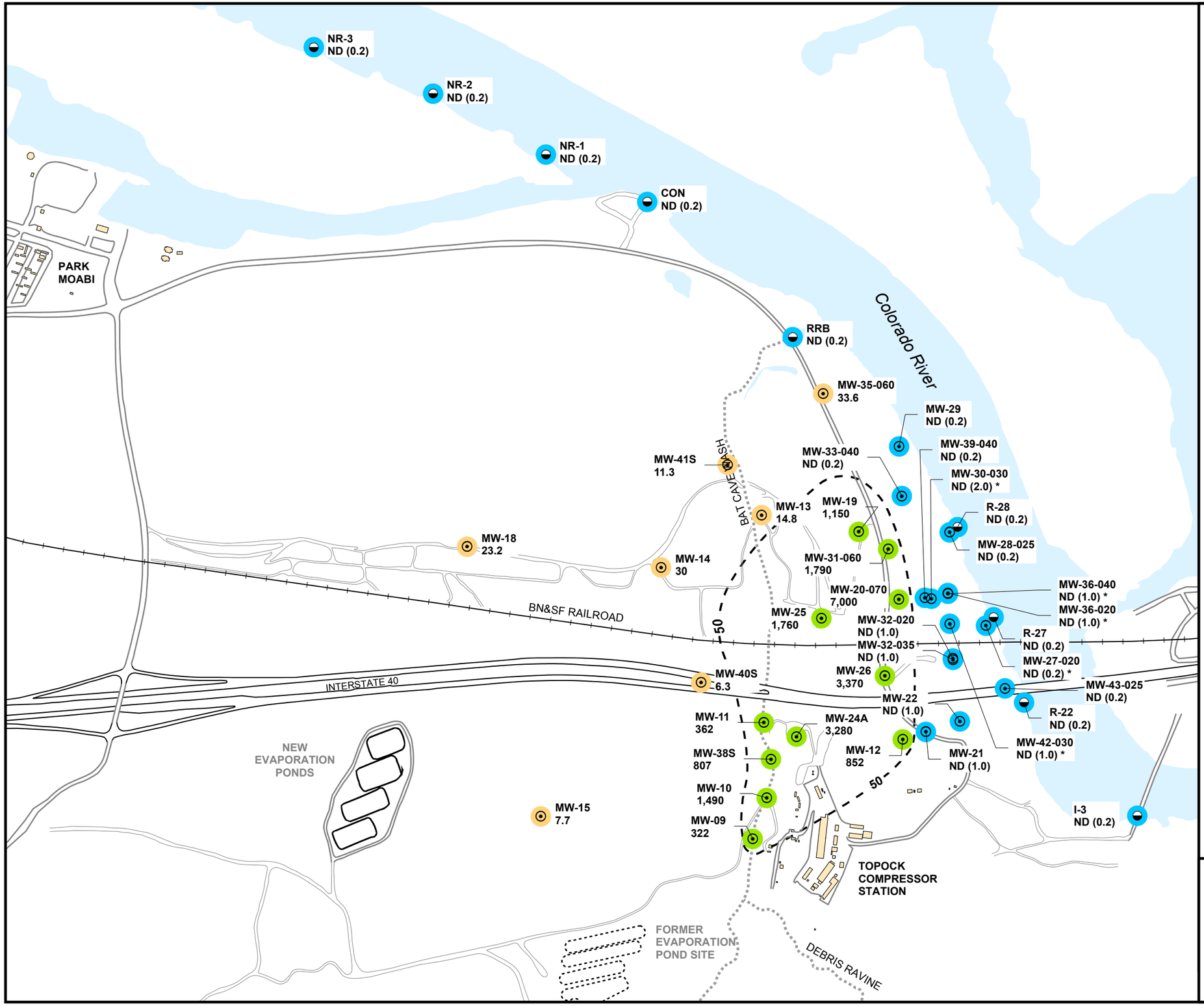
1 inch equals 800.3 feet

California State Plane NAD83 Zone 5 US Feet

FIGURE 2
MONITORING LOCATIONS AND SAMPLING FREQUENCY FOR GMP JUNE 2005

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

CH2MHILL



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** Depth Interval of Alluvial Aquifer, June 2005 monitoring event. See Table 2 for complete results

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

NS Not sampled

*Results from last sampling event prior to June (March, April, or May)

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)

N

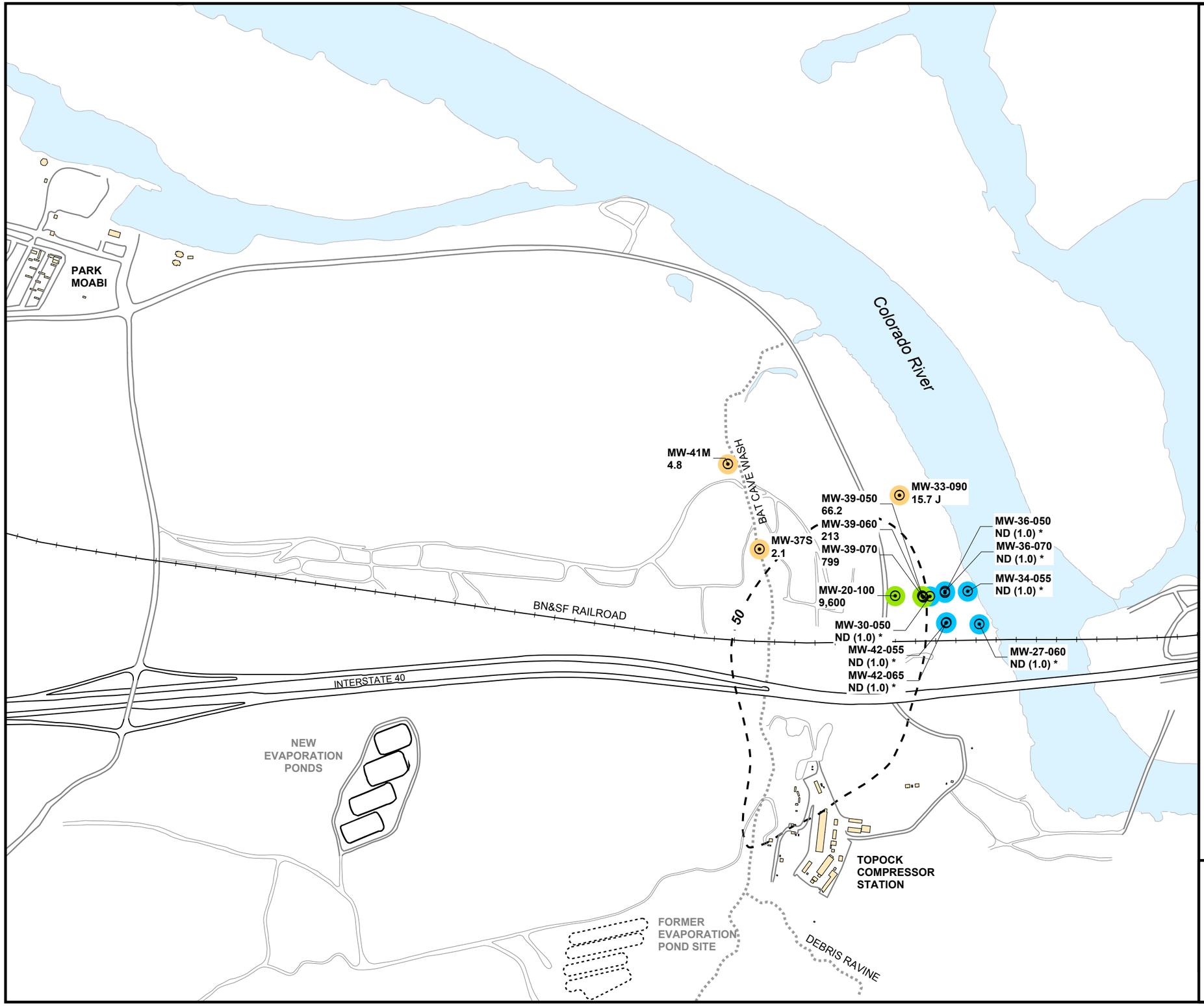
0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 3A
CR(VI) SAMPLING RESULTS
UPPER DEPTH INTERVAL OF AQUIFER
2ND QUARTER 2005 MONITORING EVENT

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

CH2MHILL



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** Depth Interval of Alluvial Aquifer, June 2005 monitoring event. See Table 2 for complete results.

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

NS Not sampled

*Results from last sampling event prior to June (March, April, or May)

Cr(VI) Concentrations in Groundwater Samples

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

N

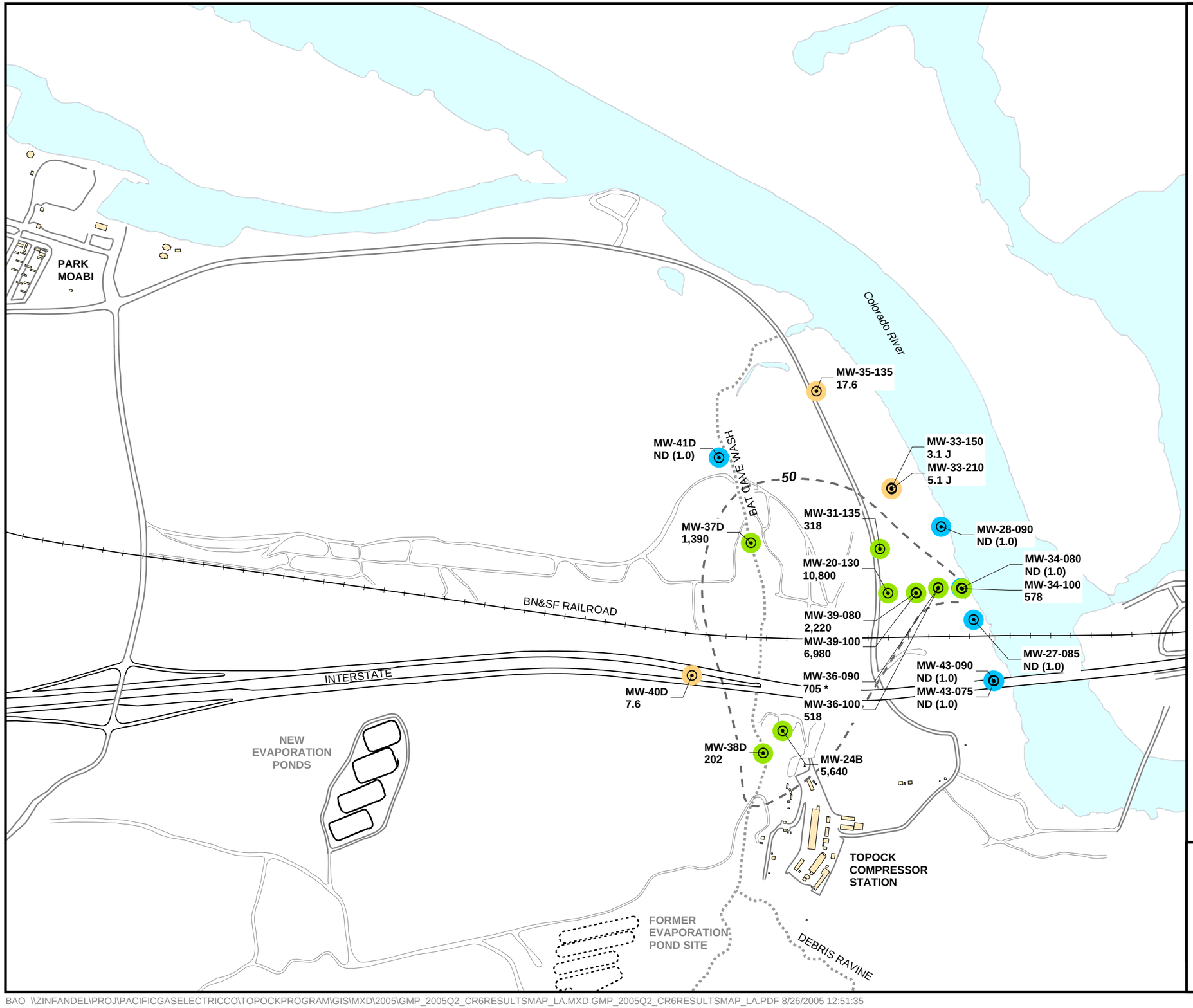
0 750 1,500 Feet

1 inch equals 763.6 feet

FIGURE 3B
CR(VI) SAMPLING RESULTS
MIDDLE DEPTH INTERVAL OF AQUIFER
2ND QUARTER 2005 MONITORING EVENT

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

CH2MHILL



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** Depth Interval of Alluvial Aquifer, June 2005 monitoring event. See Table 2 for complete results.

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

NS Not sampled

*Results from last sampling event prior to June (March, April, or May)

Cr(VI) Concentrations in Groundater Samples

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

N

0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 3C
CR(VI) SAMPLING RESULTS
LOWER DEPTH INTERVAL OF AQUIFER
2ND QUARTER 2005 MONITORING EVENT

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

CH2MHILL

BAO \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2005\GMP_2005Q2_CR6RESULTSMAP_LA.MXD GMP_2005Q2_CR6RESULTSMAP_LA.PDF 8/26/2005 12:51:35

N

0 700 1,400 Feet

1 inch equals 700 feet

LEGEND

- Extraction well
- Groundwater monitoring / observation well
- MW-20-100 454.75 — Well name with water level elevation
- MW-20-100 (454.75) — Well name with water level elevation not used in contouring
- Groundwater Elevation From Transducer
- Groundwater Elevation Contour 0.2 ft
- Inferred or Approximate Groundwater Elevation Contour 0.2 ft

Notes:
1. Long-screen production and test wells are not applicable for hydraulic gradient evaluation and are not shown.
2. TW-2D is pumping from lower portion of aquifer.

PARK MOABI

Colorado River

BN & SF RAILROAD

INTERSTATE 40

BAT CAVE WASH

DEBRIS RAVINE

NEW EVAPORATION PONDS

FORMER EVAPORATION POND SITE

TOPOCK COMPRESSOR STATION

MW-35-60 456.44*

MW-41S 455.84

MW-17 456.07

OW-03S 455.92

OW-02S 455.73

OW-01S 455.75

MW-18 455.83

OW-05S 455.74

MW-14 455.64

MW-13 455.77

MW-19 455.66

MW-31-60 455.50*

TW-2D

MW-25 455.31

MW-20-70 454.92*

MW-26 455.07

MW-24A 455.38

MW-40S 455.16

MW-11 (455.42)

MW-12 455.15

MW-21 455.1

MW-38S (454.73)

MW-10 455.38

MW-09 455.43

MW-07 (455.02)

MW-04 (455.29)

MW-08 (455.75)

MW-05 455.56

MW-06 455.58

MW-03 (454.56)

MW-16 455.51

MW-01 (454.91)

MW-15 456.02

456.4 456.2 456.0 455.8 455.6 455.4 455.2 455.0

Notes: Gradients shown on this figure show transient conditions in the aquifer at the time of measurement and may not reflect the expected average annual groundwater flow directions.

FIGURE 4
GROUNDWATER ELEVATION CONTOURS FOR SHALLOW WELLS
MAY 18, 2005 WATER LEVEL SURVEY
SECOND QUARTER 2005
GROUNDWATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

BAO \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2005\GMP_SITE_SNAP_UA_MAY05.MXD GMP_SITE_SNAP_UA_MAY05.PDF 8/29/2005 11:44:16

Appendix A
Field Data Sheets and Chain of Custody Records

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 1 Field Conditions HOT & CLEAR

Sampling Event 2005-070-Q2
Date 6-16-05
Page _____ of _____

Well/Sample Number MW-09-070 **QC Sample ID** MW-90-070 QC Sample Time 15:15
Purge Start Time 14:35 Purge Method Ded. Pump
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 20.88 Purge Rate (gpm)/(mLpm) 2.75

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
NA	1437	10	7.46	2.78	3.32	5.36	31.48	0.1	1.8	75	
	14:39	14	7.43	2.73	5.47	4.56	34.56	0.1	1.7	76	
	14:41	18	7.45	2.77	2.97	4.86	35.40	0.1	1.8	77	
	14:43	22	7.48	2.76	1.80	4.93	36.29	0.1	1.8	78	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TOP Purge 29 Gal
Did Parameters Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 14:47 Sample Location: pump tubing _____ well port ✓ spigot _____ bailer _____ other _____
Comments: _____

Initial Depth to Water (ft BTOC): ~~79.01~~ 80.45
WD (Well Depth - from table) ft btc (91)
SWH (Standing Water Height) = WD-Initial Depth 10.55
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 6.96
Three Casing Volumes = 20.88

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 N/A
1432	80.45	14:50	81.50	
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 328225.GM.02.00
Field Team 1 Field Conditions HOT - Clear

Sampling Event 2005-070-Q2
Date 6-16-05
Page ____ of ____

Well/Sample Number MW-10-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 14:09 Purge Method ____ Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 46.21 Purge Rate (gpm)/(mLpm) 8.6

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
N/A.	14:10	15	7.56	3.10	1.87	4.37	31.71	0.2	2.0	53	
	14:12	30	7.58	3.23	2.24	4.06	31.88	0.2	2.1	56	
	14:15	45	7.58	3.36	0.93	3.87	31.60	0.2	2.2	58	
	14:17	60	7.57	3.37	0.95	3.71	31.69	0.2	2.1	59	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TOT PURGE 85.3 gal
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?				Y		NO	NA			N	

Sample Time 14:25 Sample Location: pump tubing ____ well port ✓ spigot ____ bailer ____ other ____

Comments: ____

Horiba C101620
HACH PGE 2005-01B
PGE 2005-02

Initial Depth to Water (ft BTOC): 74.66
WD (Well Depth - from table) ft btc (98)
SWH (Standing Water Height) = WD-Initial Depth 23.34
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 15.40
Three Casing Volumes = 46.21

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 TRANSDUCER IN WELL
14:07	74.66	14:28	74.70	Time of Reinstallation BUT NOT REMOVED.

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 328225.GM.02.00
Field Team 1 Field Conditions HOT CLEAR

Sampling Event 2005-070-Q2
Date 6-16-05
Page ____ of ____

Well/Sample Number MW-11-070 **QC Sample ID** NA QC Sample Time ____
Purge Start Time 13.26 Purge Method ____ Ded. Pump ✓
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 48.13 Purge Rate (gpm)/(mLpm) 9.3 AVG.

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
69.75	13:27	15	7.45	2.39	209	5.54	32.41	0.1	1.5	49	
70.03	13:29	30	7.45	2.36	72.0	5.09	34.51	0.1	1.5	52	
70.09	13:31	45	7.46	2.28	14.8	5.64	32.45	0.1	1.5	58	
70.14	13:33	60	7.47	2.25	7.09	5.65	32.40	0.1	1.4	62	
70.18	13:35	75	7.46	2.23	3.99	5.60	32.54	0.1	1.4	65	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TOT PURGE 98 GAL.
Did Parameters Stablize prior to sampling?	X	✓	✓	✓	NA	✓	✓	✓	
Are measurements consistent with previous?	✓	✓	✓	✓	NA	✓	✓	✓	

Sample Time 13:40 Sample Location: pump tubing ____ well port ✓ spigot ____ bailer ____ other ____
Comments: ____

BACK PGE 2005-013
H02.84. C101620

Initial Depth to Water (ft BTOC): 66.69
Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005-02

WD (Well Depth - from table) ft btc (91)
SWH (Standing Water Height) = WD-Initial Depth 24.31
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 16.04
Three Casing Volumes = 48.13

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal / Time of Reinstallation
13:22	66.69	1341	66.70	

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 328225.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2005-070-Q2
Date 6/13/05
Page ____ of ____

Well/Sample Number MW-12-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1037 Purge Method 3CV Ded. Pump Grundfos RF2

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 47 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
1037	– Start purge										
~~28.48~~ 28.40	1040	9	8.44	3.71	5.11	6.06	28.4	0.2	2.4	-7	
29.00	1042	15	8.44	3.72	2.26	6.44	29.3	0.2	2.4	13	
29.02	1045	24	8.42	3.75	1.01	6.61	29.5	0.2	2.4	33	
29.02	1048	33	8.40	3.89	1.48	6.82	29.6	0.2	2.6	46	
29.02	1051	42	8.39	4.02	0.47	6.87	29.6	0.2	2.6	53	
29.02	1053	48	8.39	4.04	1.24	6.94	29.6	0.2	2.6	57	
29.02	1055	54	8.39	4.06	0.69	6.97	29.7	0.2	2.6	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 Stablize prior to sampling?			✓	✓	✓	✓	NA	–	–	✓	
Are measurements consistent with previous?			✓	–	NA	✓	NA	–	–	✓	

Sample Time 1057 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 28.54

WD (Well Depth - from table) ft btc (52)

SWH (Standing Water Height) = WD-Initial Depth 23.46

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .66

One Casing Volume = D*SWH 15.48

Three Casing Volumes = 46.45

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 ____
1030	28.54	1107	28.57	
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 328225.GM.02.00
Field Team 1
Field Conditions Hot & Clear (103°)

Sampling Event 2005-070-Q2
Date 9/14/05
Page 4 of ____

Well/Sample Number MW-13-070
QC Sample ID NA
QC Sample Time —
Purge Start Time 1216
Purge Method Redi-Flo 2 Ded. Pump yes
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L) 39 gal Purge Rate (gpm)/(mLpm) 2gpm

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
32.58	1219	6	7.56	3.05	25.5	10.58	30.00	.13	1.6	-25	Clear
32.58	1222	12	7.46	1.93	3.27	8.93	30.79	.09	1.2	28	No odor
32.60	1225	18	7.43	1.85	3.45	8.60	31.16	.09	1.2	45	
32.60	1228	24	7.42	1.84	1.68	8.62	31.30	.09	1.2	53	
32.60	1231	30	7.42	1.85	1.14	8.50	31.20	.09	1.2	56	
32.60	1234	36	7.43	1.83	1.19	8.51	31.34	.09	1.2	62	
32.60	1237	40	7.42	1.82	1.00	8.47	31.28	.09	1.2	65	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?							NA	NA	NA		

Sample Time 1240 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: No previous to compare to.

Initial Depth to Water (ft BTOC): 32.59
WD (Well Depth - from table) ft btc (52)
SWH (Standing Water Height) = WD-Initial Depth 19.41
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in) .664
One Casing Volume = D*SWH 12.81 X 3
Three Casing Volumes = 38.43

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1210	32.59	12.45	32.58	
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 328225.GM.02.00
Field Team 1 Field Conditions Clear - Hot.

Sampling Event 2005-070-Q2
Date 06-15-05
Page _____ of _____

Well/Sample Number MW-14-070 **QC Sample ID** MW-91-070 QC Sample Time 1200

Purge Start Time 1004 Purge Method Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 39.79 Purge Rate (gpm)/(mLpm) 7.58 AV.

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
✓	1006	15	7.30	1.54	10.5	11.10	29.85	0.07	1.0	73	
	1008	25	7.35	1.54	6.78	11.18	30.22	0.07	1.0	103	
	1009	33	stopped Purge to check Horiba due to High D.O and temp reads.								
	1042	RESTARTED PURGING WELL.									
	1043	50	6.89	1.49	3.84	11.30	31.06	0.07	1.0	174	
	1045	60	7.06	1.49	3.76	11.09	31.27	0.07	1.0	175	
	1047	70	7.18	1.48	3.41	10.41	31.89	0.07	0.9	175	
	1049	80	7.26	1.47	3.63	10.94	32.40	0.07	0.9	176	
	1051	91	7.30	1.46	7.26	10.73	33.56	0.07	0.9	177	Total gal. Purged = 113 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 Stablize prior to sampling?			N	Y	N	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			N	Y	Y	N	NA	Y	Y	Y	

Sample Time 1053 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

HORIBA - C101552
HACH 101655

Initial Depth to Water (ft BTOC): 114.90
WD (Well Depth - from table) ft btc (135)
SWH (Standing Water Height) = WD-Initial Depth 20.1
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 13.26
Three Casing Volumes = 39.79

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
0958	114.90	1100	115.00	

Comments: NO TRANSDUCER IN WELL

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 328225.GM.02.00
Field Team 1 Field Conditions HOT CLEAR

Sampling Event 2005-070-Q2
Date 6-17-05
Page _____ of _____

Well/Sample Number MW-15-070 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 10:55 Purge Method _____ Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 38.84 Purge Rate (gpm)/(mLpm) ~~6.7~~ 6.67

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
185.92	10:57	15	7.76	1.96	119	7.40	30.80	0.1	1.3	-3	
185.95	11:00	30	7.77	2.13	17.2	7.61	30.80	0.1	1.4	-20	
185.96	11:02	45	7.78	2.20	6.41	7.63	30.90	0.1	1.4	-24	
185.97	11:04	60	7.79	2.22	3.84	7.73	30.90	0.1	1.4	-30	
											TOT GAL. PURGED
											75.9.
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	X	X	Y	
Are measurements consistent with previous?			Y	N		N	NA	—	—	N	

Sample Time 11:05 Sample Location: pump tubing _____ well port ✓ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 185.38

WD (Well Depth - from table) ft btc (205)

SWH (Standing Water Height) = WD-Initial Depth 19.62

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

One Casing Volume = D*SWH 12.94

Three Casing Volumes = 38.84

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
10:44	185.38	11:10	185.45	

Comments: NO TRANSDUCER in well

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 328225.GM.02.00
Field Team 1 Field Conditions clear - Hot.

Sampling Event 2005-070-Q2
Date 06-15-05
Page _____ of _____

Well/Sample Number MW-18-070 **QC Sample ID** NA — QC Sample Time —

Purge Start Time 0923 Purge Method Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 44.44 Purge Rate (gpm)/(mLpm) 6.67

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
—	0925	10	6.84	1.61	1.16	13.11	30.13	0.07	1.0	176	
	0927	25	6.98	1.59	2.01	12.73	30.28	0.07	1.0	174	
	0929	40	7.09	1.59	1.68	12.66	30.11	0.07	1.0	171	
	0931	50	7.14	1.57	1.62	12.59	30.08	0.07	1.0	169	
	0933	65	7.20	1.55	1.87	12.47	30.16	0.07	1.0	167	
	0935	80	7.24	1.54	1.82	12.37	30.18	0.07	1.0	165	
89.12	0945										
											Total gal. Purged 96.2
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 Stablize prior to sampling?			Y	Y	Y	?	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 0937 Sample Location: pump tubing _____ well port X spigot _____ baller _____ other _____

Comments: D.O is High, cleanned Sensor

HORIBA - C101552
MACH - 101655

Initial Depth to Water (ft BTOC): 89.05

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-03

WD (Well Depth - from table) ft btc (112)

SWH (Standing Water Height) = WD-Initial Depth 22.95

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

One Casing Volume = D*SWH ~~14.93~~ 15.14

Three Casing Volumes = 45.44

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
0915	89.05	0945	89.12	

Comments: NO TRANSDUCER IN WELL

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 328225.GM.02.00
Field Team 1 Field Conditions clear Hot

Sampling Event 2005-070-Q2
Date 06-14-05
Page _____ of _____

Well/Sample Number MW-19-070 **QC Sample ID** NA — QC Sample Time N/S

Purge Start Time 1001 Purge Method _____ Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 45.71 Purge Rate (gpm)/(mLpm) 6.25 AV.

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
—	1003	13	9.64	2.24	3	7.6	29.3	0.11	1.4	6	
	1005	25	7.58	2.19	6	7.0	29.3	0.11	1.4	29	
	1007	37	7.51	2.18	7	6.8	29.3	0.11	1.4	48	
	1009	50	7.47	2.17	6	6.6	29.3	0.10	1.4	62	
	1011	60	7.51	2.17	6	6.6	29.3	0.10	1.4	5	
	1012	70	7.51	2.17	6.31	6.5	29.3	0.10	1.4	41	
	1014	80	7.55	2.17	6.33	6.4	29.3	0.10	1.4	53	
	1015	90	7.59	2.17	6.17	6.3	29.3	0.10	1.4	60	Total gal. Purged
	1017	100	7.61	2.17	5.63	6.8	29.3	0.10	1.4	65	144 gal.
44.17	1027		+/- 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 Stablize 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 1023 Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: _____

HORIBA # C1018 50
HACH # 2005-01B

Initial Depth to Water (ft BTOC): 43.91 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE # 2005-03

WD (Well Depth - from table) ft btc (67)

SWH (Standing Water Height) = WD-Initial Depth 23.09

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

One Casing Volume = D*SWH 15.23

Three Casing Volumes = 45.71

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
0955	43.91	1027	44.17	
Comments:	TRANSDUCER IN WELL / NOT REMOVED			

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 3
Field Conditions SUNNY, CLEAR

Sampling Event 2005-070-Q2
Date 6/15/05
Page 1 of

Well/Sample Number MW-20-070-070
QC Sample ID MW-92-070
QC Sample Time 1030
Purge Start Time 0948 0957
Purge Method —
Ded. Pump YES
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 52g
Purge Rate (gpm)/(mLpm) 9gpm

Water Level	Time	Vol. Purged gallons / liters (244,764)	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	0952	20g	6.48	0.00	13	7.42	30.72	0.0	0.00	205	
	0957	60g BZH	6.55	0.00	6	7.63	29.75	0.0	0.00	185	
	0902	100g	7.72	3.2	5	7.23	29.92	0.2	2.0	156	
64.20	0907	150g	7.72	3.13	2	6.85	29.71	0.2	2.0	153	
	0910	171g 931	7.72	3.15	1	6.84	29.71	0.2	2.0	152	
64.23	0913	196 960	7.72	3.16	1	6.85	29.69	0.2	2.0	152	
45.50	0941	—	—	—	—	—	—	—	—	—	—
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Are measurements consistent with previous?							NA				

Sample Time 1017 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: START PURGE@ 244,760 gal ON FLOWMETER (DIAL)

Initial Depth to Water (ft BTOC): 45.02
WD (Well Depth - from table) ft btc (71)
SWH (Standing Water Height) = WD-Initial Depth 26
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 17.2
Three Casing Volumes = 51.6

Measure Point: Well TOC (circled) Steel Casing
WATER LEVEL METER SERIAL NUMBER: 11881

326
x .66
156
156
17.16

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 (circled), brown, black, cloudy, green
Odor: none (circled), sulphur, organic, other
Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
NONE

17.2
x 3
51.6

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 3 Field Conditions HOT, CLEAR

Sampling Event 2005-070-Q2
Date 6-15-05
Page 1 of 1

Well/Sample Number MW-20-100-070 **QC Sample ID** NA QC Sample Time —

Purge Start Time 12:13 Purge Method Ded pump Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 109 Purge Rate (gpm)/(mLpm) 8 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
	12:15	20 (30.32)	7.69	4.03	15	4.50	30.64	0.2	2.6	144	
82.87	12:18	40 (61)	7.75	3.87	148	3.62	30.18	0.2	2.5	143	
	12:21	60 (92)	7.77	3.85	71	3.47	29.43	0.2	2.5	138	
86.00	12:24	90 (102)	7.77	3.82	36	3.22	29.47	0.2	2.4	137	
	12:27	108 (120, 155)	7.77	3.80	37	3.11	29.45	0.2	2.4	137	
87.28	12:30	142	7.77	3.87	61 53	3.44	29.50	0.2	2.5	136	
46.52	12:55										
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	—	N	NA	—	—	Y	

Sample Time 12:35 Sample Location: pump tubing PM well port ____ spigot S bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 45.77

WD (Well Depth - from table) ft btc (101)

SWH (Standing Water Height) = WD-Initial Depth 55.2

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

One Casing Volume = D*SWH 36.4

Three Casing Volumes = 109

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1212	45.77	—	—	
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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/15/05
Page ____ of ____

Well/Sample Number MW-20-130-070 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1052 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N 789 Min. Purge Volume (gal)/(L) 159 Purge Rate (gpm)/(mLpm) 10

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
69.58	1055	30	7.87	8.23	3	3.93	29.66	0.5	5.2	144	
69.61	1058	~~120~~ 60	7.72	9.60	2	3.96	29.72	0.5	6.3	147	
69.65	~~1101~~	90	7.73	10.4	1	4.61	29.48	0.6	6	147	
69.78	1104	120	7.73	10.3	0	4.68	29.56	0.6	6	146	
69.78	1107	150	7.73	10.3	1	4.69	29.59	0.6	6	146	
69.80	1110	180	7.73	10.6	1	4.66	29.65	0.6	7	145	
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 Stablize prior to sampling?			✓	✓		✓	NA	✓	✓	✓	
Are measurements consistent with previous?			✓	✓	—	✓	NA	—	—	✓	

Sample Time 1113 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

133
-47
86
86.7
1.66
148 oz
480 oz
528 oz

Initial Depth to Water (ft BTOC): 46.28

WD (Well Depth - from table) ft btc (133)

SWH (Standing Water Height) = WD-Initial Depth 86.7

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

One Casing Volume = D*SWH 52.8 gal

Three Casing Volumes = 159 gal

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
1051	46.28	1204	46.43	

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 328225.GM.02.00
Field Team 1 Field Conditions clear - HOT

Sampling Event 2005-070-Q2
Date 06-13-05
Page _____ of _____

Well/Sample Number MW-21-070 **QC Sample ID** NA QC Sample Time N/S

Purge Start Time 1049 Purge Method ~~Bailer~~ Ded. Pump

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 17.72 Purge Rate (gpm)/(mLpm) N/A

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
—	1051	1.8	7.02	13.7	13.1	6.~~9~~ 50	30.47	0.79	9	-70	WELL DRY AT 1.8 GAL.
06/14/05											
53.73	0925	/	/	/	/	/	/	/	/	/	WELL WILL BE SAMPLED TOMORROW 06-14-05
START	0932										
—	0939	.5	7.30	12.0	14	6.8	30.3	0.68	7	81	
		@ WELL WAS DRY AT 0.5 GAL.									
		READING WAS TAKEN FROM A GRAB SAMPLE. 06-14-05									
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 Stablize prior to sampling?			N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	
Are measurements consistent with previous?							NA				

Sample Time N/S Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: 0933 06-14-05

HORIBA # C101552
HACH # 2005-01B

Initial Depth to Water (ft BTOC): 50.05

WD (Well Depth - from table) ft btc (59)

SWH (Standing Water Height) = WD-Initial Depth 8.95

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

One Casing Volume = D*SWH 5.90

Three Casing Volumes = 17.72

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: ~~PGE-2005-03~~

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal _____ Time of Reinstallation _____
1043	50.05			

Comments: NO TRANSDUCER

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

Odor: none, sulphur, organic, other

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 2
Field Conditions HOT, CLEAR

Sampling Event 2005-070-Q2
Date 6/17/05
Page 1 of 1

Well/Sample Number MW-22-070
QC Sample ID NA
QC Sample Time —
Purge Start Time 0942
Purge Method peristaltic Ded. Pump
Flow Cell Y / N
Min. Purge Volume (gal)/(L) 3.9
Purge Rate (gpm)/(mLpm) 0.3 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
	0944	0.6	6.90	36.1	102	4.1	25.95	2.3	22	-49	
8.53	0946	1.2	6.91	34.8	116	3.69	25.43	2.2	21	-54	
9.18	0948	1.8	6.91	34.4	108	3.37	24.81	2.2	21	-60	
10.37	0950	2.4	6.91	34.3	255	3.17	24.16	2.2	21	-67	
10.63	0952	3.0	6.92	33.3	126	2.99	24.01	2.1	21	-63	
	0954	3.6	6.93	33.6	51	3.01	24.01	2.2	21	-59	0955 → TURNED PUMP OFF TO GET MORE H2O BUCKET
8.31	~~1024~~ 0956	~~4.2~~ 4.8	6.91	34.6	36	2.75	25.13	2.2	21	-64	→ PUMP TURNED BACK ON AT 1021
10.35 / 10.66	1027 / 1030	5.7 / 6.6	6.92 / 6.93	34.7 / 33.7	40 / 16	2.66 / 3.23	24.29 / 23.99	2.2 / 2.2	21 / 21	-66 / -57	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1035 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Final DTW 5.85 @ 1057

7.5
x .17
525
75
1275

Initial Depth to Water (ft BTOC): 5.52
WD (Well Depth - from table) ft btc (13)
SWH (Standing Water Height) = WD-Initial Depth 7.5
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 1.3 gal
Three Casing Volumes = 3.9 gal

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

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 GMP
Job Number 328225.GM.02.00
Field Team 1 Field Conditions clear - HOT

Sampling Event 2005-070-Q2
Date 06-13-05
Page _____ of _____

Well/Sample Number MW-23-070 **QC Sample ID** NA QC Sample Time N/S

Purge Start Time 1023 Purge Method _____ Ded. Pump _____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 59.67 Purge 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
—	1024	8.5	6.60	21.8	13.2	7.51	28.91	1.29	13	-36	
	1026	14	6.74	21.3	30.3	6.43	29.10	1.29	13	- 6	
	1028	17.1	6.81	21.5	23.2	6.30	29.54	1.30	13	2	
06-14-05	WELL WAS PURGED DRY ON 06-13-05										WELL DRY AT 17.1
53.72	0902	—	—	—	—	—	—	—	—	—	GAL.
START	0906										
	0908	15	7.32	19.7	30	6.9	28.7	1.17	12	34	WELL WILL BE
N/L	0909	15.9	7.43	19.5	44	7.8	28.7	1.17	12	23	SAMPLED TOMORROW
	WELL WAS DRY AT 15.9 GAL. 06-14-05										06-14-05
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 Stablize prior to sampling?			N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	
Are measurements consistent with previous?							NA				

Sample Time 06-14-05 0907 Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: _____

HORIBA # C101552
HACH # 2005-01B

Initial Depth to Water (ft BTOC): 51.86
WD (Well Depth - from table) ft btc (82)
SWH (Standing Water Height) = WD-Initial Depth 30.14
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 19.89
Three Casing Volumes = 59.67

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1000	51.86	—	—	

Comments: NO TRANSDUCER

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 328225.GM.02.00 HOT. CLEAR
Field Team 1 Field Conditions

Sampling Event 2005-070-Q2
Date 6-16-05
Page _____ of _____

Well/Sample Number MW-24A-070 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 12:28 Purge Method _____ Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 31.11 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. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
112.85	12:29	10	7.71	3.29	3.80	4.03	29.70	0.2	2.1	34	
112.90	12:31	20	7.72	3.32	1.81	3.68	29.80	0.2	2.1	37	
112.95	12:33	30	7.72	3.43	1.37	3.06	31.61	0.2	2.2	35	
112.95	12:35	40	7.71	3.45	1.0	2.83	32.16	0.2	2.2	46	
112.98	12:36	50	7.70	3.47	0.95	2.78	31.25	0.2	2.2	50	
113.0	12:37	60	7.70	3.47	0.95	2.70	31.73	0.2	2.2	52	
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 Stablize 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 12:40 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

TOTAL PURGE 73 GAL

Initial Depth to Water (ft BTOC): 111.28

WD (Well Depth - from table) ft btc (127)

SWH (Standing Water Height) = WD-Initial Depth 15.72

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

One Casing Volume = D*SWH 10.37

Three Casing Volumes = 31.11

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 X
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
12:21	111.28	1245	111.30	

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 328225.GM.02.00
Field Team 1
Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6-16-05
Page ____ of ____

Well/Sample Number MW-24B-070
QC Sample ID NA
QC Sample Time
Purge Start Time 11:33
Purge Method (Ded. Pump)
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) 217.78
Purge Rate (gpm)/(mLpm) 9 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
—	11.35	25	7.99	12.9	1.08	3.17	32.49	0.8	8	-16	
120.35	11.40	45	7.97	13.5	28.51	2.60	32.72	0.8	8	-16	
120.45	11:45	75	7.95	13.2	9.51	2.38	33.53	0.8	8	-14	
120.43	11:49	105	7.94	13.1	4.59	2.33	34.47	0.8	8	-12	
120.45	11:54	135	7.94	13.1	4.42	2.28	34.88	0.7	8	-10	
120.42	11:59	165	7.93	13.1	4.31	2.19	35.69	0.8	8	-8	
120.42	12:04	195	7.94	13.1	4.30	2.28	34.55	0.8	8	-5	
120.43	12:09	218	7.93	13.1		2.20	3551	0.8	8	-4	
						2.72					
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	Total Purge 232
Did Parameters Stablize prior to sampling?			YES	YES	YES	NO	NA	YES	YES	YES	
Are measurements consistent with previous?			NO	NO	—	NO	NA	—	—	NO	

Sample Time 12:15 Sample Location: pump tubing ____ well port ✓ spigot ____ bailer ____ other ____
Comments:

Initial Depth to Water (ft BTOC): 109.01
WD (Well Depth - from table) ft btc (219)
SWH (Standing Water Height) = WD-Initial Depth 109.99
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 72.59
Three Casing Volumes = 217.78

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 —
11:23	109.01	12:16	109.20	

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 328225.GM.02.00
Field Team 1 Field Conditions clear

Sampling Event 2005-070-Q2
Date 06-14-05
Page _____ of _____

Well/Sample Number MW-25-070 **QC Sample ID** MW-93-070 QC Sample Time 1200

Purge Start Time 1116 Purge Method _____ Ded. Pump _____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 39.40 Purge Rate (gpm)/(mLpm) 6.8 Av.

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
—	1118	15	7.46	1.75	2.05	6.7	32.5	0.08	1.1	80	
	1120	30	7.51	1.73	5.75	5.9	32.8	0.08	1.1	90	
	1122	45	7.52	1.63	7.22	6.7	30.4	0.08	1.0	103	
	1124	60	7.55	1.61	5.78	7.0	30.3	0.08	1.0	105	
	1127	75	7.56	1.62	6.40	6.9	30.3	0.08	1.0	107	
1149	87.25										
											Total gal. Purged 143.5
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 1133 Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: _____

HORIBA # C1018570
HACH - 2005-01B

Initial Depth to Water (ft BTOC): 87.10
WD (Well Depth - from table) ft btc (107)
SWH (Standing Water Height) = WD-Initial Depth 19.9
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 13.13
Three Casing Volumes = 39.40

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: ~~95E~~ 2005-03

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
1108	87.10	1149	87.25	

Comments: TRANSDUCER IN WELL / NOT 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 328225.GM.02.00
Field Team 1 Field Conditions clear - Hot

Sampling Event 2005-070-Q2
Date 06-13-05
Page _____ of _____

Well/Sample Number MW-26-070 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1126 Purge Method _____ Ded. Pump _____

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 54.05 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
—	1129	10	7.43	3.92	37.2	8.69	30.62	0.20	2.5	93	
	1130	20	7.41	3.73	131	7.34	30.46	0.19	2.4	93	
	1132	30	7.49	3.89	365	8.48	30.61	0.20	2.5	96	1132 Well Water level dropped
	1135	40	7.51	3.82	114	9.10	31.09	0.19	2.4	104	down to pump level
	1137	50	7.50	3.83	53.8	9.11	31.47	0.20	2.5	112	pump is pumping
	1140	60	7.50	3.84	38.2	9.04	31.71	0.20	2.5	116	recharge water
	1142	70	7.49	3.82	31.6	9.16	32.12	0.19	2.4	119	
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 Stablize prior to sampling?			Y	Y	N	Y/N?	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 1145 Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: _____

HORIBA #C101552
HACH - 2005-01B

Initial Depth to Water (ft BTOC): 46.70
WD (Well Depth - from table) ft btc (74)
SWH (Standing Water Height) = WD-Initial Depth 27.3
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 18.01
Three Casing Volumes = 54.05

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 965-2005-03

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal _____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
1104	46.70	1156	47.60	

Comments: Transducer was not 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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/15/05
Page ____ of ____

Well/Sample Number MW-28-025-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1049 Purge Method 3CV Ded. Pump BF2

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 7.34 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
11.60	1051	2	7.68	1.73	5.47	5.2	23.9	0.08	1.1	-36	
11.58	1053	4	7.69	1.57	3.46	3.3	23.8	0.07	1.0	-44	
11.60	1055	6	7.69	1.50	2.45	2.9	23.7	0.07	1.0	-51	
11.60	1057	8	7.70	1.48	1.57	2.8	23.7	0.07	0.9	-53	
11.61	1059	10	7.71	1.46	1.56	2.7	23.7	0.07	0.9	-54	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

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

Comments: ____

Initial Depth to Water (ft BTOC): 10.60

WD (Well Depth - from table) ft btc (25)

SWH (Standing Water Height) = WD-Initial Depth 14.4

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

One Casing Volume = D*SWH 2.45

Three Casing Volumes = 7.34

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 ____
1045	10.60	1132	10.70	
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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/15/05
Page 1 of 1

Well/Sample Number MW-28-090-070 **QC Sample ID** NA QC Sample Time

Purge Start Time 1140 Purge Method Grundfos 3CV Ded. Pump yes

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 45 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
12.25	1143	6	8.18	8.11	3.60	5.0	23.2	0.45	5.1	-175	
12.26	1146	12	7.92	8.13	3.02	3.4	22.7	0.45	5.1	-170	
12.28	1149	18	7.96	8.08	2.27	3.0	22.5	0.44	5.1	-203	
12.30	1152	20	7.94	8.06	2.01	2.7	22.6	0.44	5.1	-199	pump was running low, readjusted, approx. purge vol. = 20 gal. Q = 2 gpm @ 1159
12.50	1159	24	8.06	8.70	2.11	2.6	23.2	0.48	5.5	-207	
13.50	1202	30	8.11	8.95	2.68	2.5	23.4	0.50	5.7	-208	
13.54	1205	36	8.15	9.25	2.57	2.5	23.5	0.51	5.9	-207	
13.55	1208	42	8.17	9.40	2.61	~~2.61~~ 2.59	23.3	0.52	5.9	-206	
13.55	1211	48	8.19	9.41	2.68	2.5	23.5	0.52	5.9	-205	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	—	—	Y	

Sample Time 1215 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 11.93

WD (Well Depth - from table) ft btc (98)

SWH (Standing Water Height) = WD-Initial Depth 86.07

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

One Casing Volume = D²*SWH 14.63

Three Casing Volumes = 43.89

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal NA / Time of Reinstallation
1141	11.93	1225	12.15	

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 328225.GM.02.00
Field Team 2 Field Conditions Hot, Hot, Hot

Sampling Event 2005-070-Q2
Date 6/15/05
Page ____ of ____

Well/Sample Number MW-29-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 952 Purge Method 3 CV Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 6.6 Purge Rate (gpm)/(mLpm) 1 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
~~30.0 154~~	954	2	7.11	4.91	10.6	4.9	37.1	0.26	3.3	-72	
34.02	956	4	7.39	6.31	246	3.1	28.4	0.29	3.5	-149	
35.94	958	6	7.15	5.10	276	2.7	27.7	0.29	2.8	-162	
—	1000	8	7.13	6.50	372	3.1	27.7	0.35	4.1	-126	WL at top of pump.
31.22	1002	10	7.15	6.65	309	3.3	28.6	0.36	4.2	-116	reduced flow rate
30.70	1005	11	7.10	6.58	337	3.1	29.8	0.35	4.2	-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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—		
Are measurements consistent with previous?			Y	N		Y	NA	-	-		

Sample Time 1010 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 29.11

WD (Well Depth - from table) ft btc (42)

SWH (Standing Water Height) = WD-Initial Depth 12.89

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

One Casing Volume = D*SWH 2.19

Three Casing Volumes = 6.6

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 0947
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1018
0945	29.11	1023	29.22	
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 328225.GM.02.00
Field Team 1 Field Conditions clear - HOT

Sampling Event 2005-070-Q2
Date 06-13-05
Page _____ of _____

Well/Sample Number MW-31-060-070 **QC Sample ID** NA — QC Sample Time —

Purge Start Time 1244 Purge Method _____ Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 41.61 Purge Rate (gpm)/(mLpm) 5-10 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
/	1246	22	7.72	3.05	13.7	8.75	31.73	0.15	2.0	108	
—	1247	30	7.70	3.13	3.47	8.10	32.07	0.15	1.9	112	
/	1249	42	7.70	3.12	2.20	8.75	29.77	0.15	2.0	115	
—	1250	55	7.70	3.07	1.87	8.41	29.69	0.15	2.0	117	
/	1252	65	7.70	3.07	1.87	8.22	29.61	0.15	2.0	120	
—	1253	75	7.70	3.06	1.54	8.00	29.52	0.15	2.0	122	
41.10	1307	—	—	—	—	—	—	—	—	—	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	Total gal. Purged 126
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 1306 Sample Location: pump tubing _____ well port X spigot _____ bailer _____ other _____

Comments: _____

HONDA # C101552
HACH-2005-01B
PGE-2005-03

Initial Depth to Water (ft BTOC): 40.96
WD (Well Depth - from table) ft btc (64)
SWH (Standing Water Height) = WD-Initial Depth 23.04
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 15.20
Three Casing Volumes = 45.61

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: ~~PGE~~-2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1235	40.96	1307	41.10	

Comments: TRANSDUCER WAS NOT REMOVED

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

Odor: (none), sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2005-070-Q2
Date 07/16/05
Page 1 of

Well/Sample Number MW-31-135-070 **QC Sample ID** MW-94-070 QC Sample Time 1230

Purge Start Time 1127 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 47 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
	1127	- Start Purge									
45.08	1130	9	7.64	12.6	~~6.58~~ 4.61	6.57	31.1	0.7	8	35	
45.12	1133	18	7.69	12.2	144	5.83	31.0	0.7	8	36	
45.12	1136	27	7.82	13.9	106	5.49	31.2	0.8	9	51	
45.12	1139	~~31~~ 36	7.84	14.2	67.1	5.39	31.2	0.8	9	54	
45.12	1142	45	7.84	14.4	54.9	5.17	31.2	0.8	9	61	
45.12	1146	57	7.85	14.5	46.3	4.95	31.1	.8	9	57	
45.12	1149	66	7.85	~~14~~.5	8.70	4.71	31.0	.8	9	49	
45.12	1152	75	7.85	14.6	3.85	4.46	30.9	.8	9	42	
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 Stablize prior to sampling?			Y	Y	see below	No	NA	-	-	Y	
Are measurements consistent with previous?			Y	Y	-	Y	NA	-	-	Y	

Sample Time 1157 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: 1154 - Took 1 more Turb meter @ 2.39 NTU

Initial Depth to Water (ft BTOC): 42.84

WD (Well Depth - from table) ft btc (134)

SWH (Standing Water Height) = WD-Initial Depth 91.16

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

One Casing Volume = D*SWH 15.5

Three Casing Volumes = 46.5

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 1122
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1227
1120	42.84	1228	42.98	
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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date
Page ____ of ____

Well/Sample Number MW-32-020-070 **QC Sample ID** NA QC Sample Time -

Purge Start Time 1230 Purge Method ____ Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 9 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
					400						
-	1232	2	7.12	15.5	1.59	2.8	25.9	0.91	10	-173	
9.97	1234	4	7.16	15.6	916	2.5	25.8	0.92	10	-206	
10.05	1236	6	7.13	15.5	881	2.4	25.8	0.91	10	-194	
10.04	1238	8	7.13	15.6	489	2.4	25.8	0.91	10	-189	
10.05	1240	10	7.13	15.5	767	2.4	25.7	0.91	10	-188	
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 Stablize prior to sampling?			Y	Y	N	Y	NA	-	-	-	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-	-	-	

Sample Time 1245 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: well has high sand and silt content, will need to be redeveloped. (inconsistent turbidity readings)

Horriba cl01050
Hach 101655

Initial Depth to Water (ft BTOC): 6.10

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

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

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

One Casing Volume = D*SWH 2.7

Three Casing Volumes = 8.1

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 1188

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal: -
1228	6.10	1250	6.25	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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/17/05
Page 1 of 1

Well/Sample Number MW-32-035-070 **QC Sample ID** NA QC Sample Time

Purge Start Time 1156 Purge Method Ded. Pump

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
12.03	1201	15	7.60	13.3	2.43	4.7	27.7	0.77	8	-208	
12.10	1206	30	7.58	13.2	1.65	2.4	27.6	0.76	8	-201	
12.12	1211	45	7.58	13.0	1.23	2.3	27.5	0.75	8	-201	
12.14	1216	60	7.58	12.9	1.47	2.3	27.5	0.74	8	-204	
12.20	1222	75	7.57	12.8	1.59	2.3	27.7	0.73	8	-202	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	-	-	-	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-	-	-	

Sample Time 1225 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Horriba # C101050
Hach # 101655

Initial Depth to Water (ft BTOC): 5.93

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

SWH (Standing Water Height) = WD-Initial Depth

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

One Casing Volume = D*SWH 21.8

Three Casing Volumes = 65.5

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 2005-01B (11881)

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1152	5.93	12:33	6.1	

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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/17/05
Page 1 of 1

Well/Sample Number MW-~~34-055-070~~ 3340-070 **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
	1014	~5	8.63	5.43	-	6.2	26.6	0.29	3.4	-67	Pid not collect turbidity due to purge method being
	1016	~5.2	8.61	5.46	-	5.4	27.8	0.29	3.4	-94	baling and high silt content
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1019 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Bailed well approx 5.5 gal.

Horiba C101050
Hach 191655

Initial Depth to Water (ft BTOC): 31.35

WD (Well Depth - from table) ft btc (56)

SWH (Standing Water Height) = WD-Initial Depth

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

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	0938
~~0938~~ 0936	31.35	~~1027~~ 1035	33.4	Time of Reinstallation	1027
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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/15/05
Page 1 of

Well/Sample Number MW-33-040-070 **QC Sample ID** NA QC Sample Time

Purge Start Time 1254 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 6 Purge Rate (gpm)/(mLpm) ~0.8

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
35.00	1301	0.5	8.78	5.26	~~12.68~~	4.0	36.7	0.28	3.3	-154	volume purged is estimated, pump on & off
35.05	1303	~~0~~ 2	8.84	5.40	282	3.1	36.5	0.29	3.4	-186	pump may have began to ~~seized~~ up due to silt content in well.
35.35	1305	3.5	8.83	5.43	272	2.7	36.7	0.29	3.4	-171	
	~~100~~										
	1307	Stop pumping, need to do maintenance on pump.									

MATT: Don't use 33-40 with 6/15/05 date. Pump broke down. Use the field sheet dated 6/17/05 for 33-40.

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 Stablize prior to sampling?					NA			
Are measurements consistent with previous?					NA			

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

Comments: pump was placed 2 feet above WD because well could not sustain at higher depths.

Initial Depth to Water (ft BTOC): 31.58

WD (Well Depth - from table) ft btc (42)

SWH (Standing Water Height) = WD-Initial Depth 10.42

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

One Casing Volume = D*SWH 1.77

Three Casing Volumes = 5.3

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	1336
1250	31.58	1341	32.18		

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

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 16 1

Well/Sample Number MW-33-090-070 **QC Sample ID** MW-95-070 QC Sample Time 1255

Purge Start Time 1140 Purge Method _____ Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 120 Purge 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
32.40	1145	15	7.65	9.5	4.79	2.9	29.5	0.53	6	-146	
32.43	1150	30	7.81	9.13	1.12	2.3	29.4	0.51	5.8	-133	
32.44	1155	45	7.88	9.30	0.94	2.2	29.5	0.52	5.8	-117	
32.45	1200	60	7.97	8.71	1.51	2.2	29.4	0.52	5.9	-156	
32.46	1205	75	8.02	9.41	1.23	2.2	29.3	0.52	5.9	-211	
32.46	1210	90	8.12	9.39	1.70	2.1	29.5	0.52	5.9	-195	
32.48	1215	105	8.18	10.3	1.70	2.1	29.7	0.58	6.0	-219	
32.46	1220	120	8.22	9.5	1.59	2.1	29.9	0.53	6.0	-209	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—		
Are measurements consistent with previous?			Y	Y	Y	Y	NA	—	—		

Sample Time 1223 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Horriba - C101050
Hach - 101655

Initial Depth to Water (ft BTOC): 31.70

WD (Well Depth - from table) ft btc (91)

SWH (Standing Water Height) = WD-Initial Depth 59.3

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

One Casing Volume = D*SWH 39.14

Three Casing Volumes = 119.4

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PLATE 2005-03

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
1128	31.70	1238	31.84	

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 328225.GM.02.00
Field Team 2 Field Conditions Hot & Clear.

Sampling Event 2005-070-Q2
Date 6/16/05
Page 1 of

Well/Sample Number MW-33-150-070 **QC Sample ID** NA — QC Sample Time —
Purge Start Time 0945 Purge Method Redi-Flo2 Ded. Pump No
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 63 Purge Rate (gpm)/(mLpm) 3gpm

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
35.00	0947	0-5	7.65	9.34	6.70	4.8	29.2	.83	9	-297	
35.00	0950	15	7.69	15.1	4.80	4.6	29.2	.88	9	-299	
35.03	0955	30	7.79	17.9	21.9	3.8	29.3	1.07	11	-262	
35.04	1000	45	7.78	18.3	4.44	3.4	29.3	1.09	11	-210	
35.05	1005	60	7.79	18.3	3.60	3.2	29.3	1.09	11	-186	
35.05	1008	65	7.79	18.3	2.79	3.1	29.4	1.09	11	-178	
35.07	1010	75	7.80	18.3	1.22	3.0	29.4	1.09	11	-172	
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 Stablize prior to sampling?			y	y	y	y	NA	—	—	y	
Are measurements consistent with previous?			y	y	NA	y	NA	—	—	y	

Sample Time [redacted]1012 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___
Comments: Pump WAS turned up too high @ start that is THE REASON for the drawdown.

Horriba C101050
Hach # 101655

Initial Depth to Water (ft BTOC): 32.00
WD (Well Depth - from table) ft btc (155)
SWH (Standing Water Height) = WD-Initial Depth 123.60
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 20.91 X 3
Three Casing Volumes = 62.73.

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 0938 / Time of Reinstallation 1012
0938	32.00	1030	32.30	
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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/16/05
Page 1 of

Well/Sample Number MW-33-210-070 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1315 Purge Method Grundfos 3CV Ded. Pump
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 100 Purge 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
34.47	1320	15	8.16	21.8	~~8.0~~ 1.36	8.0	29.0	1.34	14	-249	
34.50	1325	30	7.96	22.8	1.07	2.4	29.1	1.38	14	-261	
34.52	1330	45	7.92	22.7	0.99	2.2	29.3	1.38	14	-234	
34.53	1335	60	7.91	22.7	0.75	2.0	30.7	1.38	14	-246	
34.54	1340	75	7.91	22.6	0.72	2.1	30.1	1.37	14	-226	
34.54	1345	90	7.88	22.5	0.69	2.0	30.5	1.37	14	-231	
34.54	1350	105	7.87	22.4	0.93	2.0	30.6	1.37	14	-216	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—		
Are measurements consistent with previous?			Y	Y	Y	Y	NA	—	—		

Sample Time 1354 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Horriba - C101050
Hach - 101055

Initial Depth to Water (ft BTOC): 32.28
WD (Well Depth - from table) ft btc (223)
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 32.4
Three Casing Volumes = 97.3

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PG&E 2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1309 / Time of Reinstallation 1358
1307	32.28	~~1358~~ 1403	32.57	
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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 2
Field Conditions Very Hot & Clear (117°)

Sampling Event 2005-070-Q2
Date 6/30/05
Page 1 of 1

Well/Sample Number MW-34-080-070
QC Sample ID NA
Purge Start Time 1256
Purge Method ____ Ded. Pump ✓
QC Sample Time —
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) 155 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
—	1306	20	7.59	.000	.55	5.74	38.6	0.0	.00	118	WATER IS CLEAR W/
—	1316	40	7.11	18.5	.61	1.72	32.4	1.1	12	-132	Slight Sulphur
—	1326	60	7.17	18.0	.61	1.54	32.4	1.1	12	-83	odor.
7.50	1336	80	7.19	18.0	.28	1.50	32.4	1.1	12	-66	
—	1346	100	7.19	18.0	.28	1.46	32.3	1.1	12	-60	
—	1356	120	7.20	17.8	.48	1.47	32.2	1.1	12	-57	
—	1406	140	7.20	17.8	.25	1.49	32.4	1.1	12	-56	
7.62	1416	160	7.20	18.3	3.79	1.57	33.7	1.1	12	-61	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?			—	—	—	—	NA	—	—	—	

Sample Time ~~1420~~ 1520 Sample Location:
Comments: There is no previous data to compare too.
pump tubing ✓ well port ____ spigot ____ bailer ____ other T-pump

Initial Depth to Water (ft BTOC): 5.48
WD (Well Depth - from table) ft btc (84)
SWH (Standing Water Height) = WD-Initial Depth 78.5
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (4 in)
One Casing Volume = D*SWH 51.8 gal
Three Casing Volumes = 155 gal

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	

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 328225.GM.02.00
Field Team 2
Field Conditions Very Hot & Clear (110°)

Sampling Event 2005-070-Q2
Date 6/21/05
Page 1 of 1

Well/Sample Number MW-34-100-070
QC Sample ID MW-96-070
QC Sample Time 1300
Purge Start Time 1222
Purge Method Decon'd Grunfos Ded. Pump No.
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L) 57 Purge Rate (gpm)/(mLpm) 2gpm

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
—	1227	10	7.38	20.7	16.4	2.58	30.1	1.2	13	-166	
—	1232	20	7.34	20.6	9.27	2.67	29.0	1.2	13	-59	
6.59	1237	30	7.26	20.6	6.35	2.28	28.2	1.2	13	-34	
—	1242	40	7.28	20.6	2.73	2.07	27.9	1.2	13	-30	
—	1247	50	7.31	20.6	1.96	1.98	27.8	1.2	13	-29	
—	1252	60	7.33	20.5	1.30	1.93	27.9	1.2	13	-26	
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 Stablize prior to sampling?							NA	NA	NA		
Are measurements consistent with previous?					—		NA	NA	NA		

Sample Time 1255 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 5.25'
WD (Well Depth - from table) ft btc (117)
SWH (Standing Water Height) = WD-Initial Depth 111.75'
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 18.99 X3
Three Casing Volumes = 56.99

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 2005-05

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1108
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1329
1108	5.25	1400	5.30	
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 328225.GM.02.00
Field Team 2 Field Conditions Hot & CLEAR

Sampling Event 2005-070-Q2
Date 6/13/05
Page _____ of _____

Well/Sample Number MW-35-060-070 **QC Sample ID** MW-97-070 QC Sample Time _____
Purge Start Time 1307 Purge Method Redi-flo 2 Ded. Pump NO
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 17gal Purge Rate (gpm)/(mLpm) 2gpm

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
28.50	1311	8	7.38	12.4	63.3	3.28	30.8	.7	8	-37	CLEAR NO ODOR
28.54	1314	14	7.23	12.1	21.0	2.61	29.9	.7	8	-15	
28.55	1317	20	7.18	11.9	6.00	2.58	29.6	.7	8	-8	
28.55	1320	26	7.22	11.9	3.06	2.48	29.7	.7	8	-6	
28.55	1323	32	7.27	11.9	1.25	2.47	29.6	.7	8	-8	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?							NA	NA	NA		

Sample Time 1325 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____
Comments: _____

Initial Depth to Water (ft BTOC): 27.95
WD (Well Depth - from table) ft btc (60)
SWH (Standing Water Height) = WD-Initial Depth 32.05 X
D (Volume as per diameter) 2"= 0.17 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH[1] 5.44 X 3
Three Casing Volumes = 16.34

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1253 / Time of Reinstallation 1335
1253	27.95	1338	28.04	
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 328225.GM.02.00
Field Team 2 Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6/13/05
Page _____ of _____

Well/Sample Number MW-35-135-070 **QC Sample ID** NA QC Sample Time _____
Purge Start Time 1405 Purge Method Redi-Flo 2 Ded. Pump NO
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 67gal Purge Rate (gpm)/(mLpm) 2gpm

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
29.60	1408	6	7.85	13.6	4.92	2.19	28.6	.9	10	-236	-Clear No odor.
29.63	1413	16	7.53	15.5	.83	2.39	28.6	.9	10	-205	
29.63	1418	26	7.53	15.3	.61	2.69	28.6	.9	10	-175	
29.65	1423	36	7.54	15.2	.43	1.85	28.7	.9	10	-162	-Water developed a strong sulphur odor
29.65	1428	46	7.37	15.1	.27	1.78	28.5	.9	10	-148	
29.65	1433	56	7.59	15.1	.09	1.73	28.5	.9	10	-143	
29.65	1440	68	7.60	15.0	.35	1.75	28.5	.9	10	-138	
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 Stablize prior to sampling?			✓	✓	✓	✓	NA	—	—	✓	
Are measurements consistent with previous?			✓	✓	✓	✓	NA	—	—	✓	

Sample Time 1445 Sample Location: ✓ pump tubing ✓ well port ✓ spigot _____ bailer _____ other _____
Comments: _____

Initial Depth to Water (ft BTOC): 28.00
WD (Well Depth - from table) ft btc (159)
SWH (Standing Water Height) = WD-Initial Depth 131
D (Volume as per diameter) 2"= 0.17 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 22.27
Three Casing Volumes = 66.81

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1345
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1449
1344	28.00	1445	28.	
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 328225.GM.02.00
Field Team 2 Field Conditions clear Hot

Sampling Event 2005-070-Q2
Date 06-15-05
Page _____ of _____

Well/Sample Number MW-37D-070 **QC Sample ID** NA QC Sample Time ~~—~~

Purge Start Time 1301 Purge Method 2" Redy Flow 2 Ded. Pump _____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 100 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
31.66	1304	12	UNABLE TO COLLECT READINGS DUE TO HORIBA								
31.69	1309	27	NOT WORKING AT ALL - NO EXTRA HORIBA								
31.70	1312	36	AVAILABLE - PER BOB.								
31.70	1316	48									
31.72	1320	60									
31.72	1324	72									
31.72	1330	84									
31.72	1334	96									
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 Stablize prior to sampling?			NA	NA	NA	NA	NA	NA			
Are measurements consistent with previous?							NA				

Sample Time 1335 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

HORIBA-C101552
HACH-101655

Initial Depth to Water (ft BTOC): 30.88
WD (Well Depth - from table) ft btc (227)
SWH (Standing Water Height) = WD-Initial Depth 196.12
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D^2*SWH 33.34
Three Casing Volumes = 100.02

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal ~~—~~
Time	Initial DTW	Time	Final DTW	Time of Reinstallation _____
1255	30.88	1338	30.90	

Comments: NO TRANSDUCER IN WELL

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 328225.GM.02.00
Field Team 2 Field Conditions clear - Hot.

Sampling Event 2005-070-Q2
Date 06-15-05
Page _____ of _____

Well/Sample Number MW-37S-070 **QC Sample ID** ~~N/A~~ MW-37-S-E-B-070 QC Sample Time 1250

Purge Start Time 1224 Purge Method 2" Redy Flow 2 Ded. Pump _____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 28.72 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
30.90	1228	8	7.62	3.06	3.86	8.47	34.15	0.15	2.0	-150	
30.90	1230	12	7.65	3.41	2.37	8.40	33.64	0.17	2.2	-127	
30.90	1233	18	7.68	3.72	1.60	8.20	33.59	0.19	2.4	-99	
30.91	1236	24	7.70	3.80	1.19	8.05	33.49	0.20	2.5	-81	
30.91	1239	30	7.70	3.90	1.20	8.08	33.43	0.20	2.5	-74	
30.91	1242	36	7.70	3.93	1.25	8.07	33.65	0.20	2.5	-71	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			N	N	N	N	NA	N	N	N	

Sample Time 1244 Sample Location: pump tubing Y well port _____ spigot _____ bailer _____ other _____

Comments: _____

HERIBA = C101552
HACH = 181655

Initial Depth to Water (ft BTOC): 30.67
WD (Well Depth - from table) ft btc (87)
SWH (Standing Water Height) = WD-Initial Depth 56.33
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 9.57
Three Casing Volumes = 28.72

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1153	30.67	1257	30.67	

Comments: NO TRANSDUCER IN WELL

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 328225.GM.02.00
Field Team 1 Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6-17-05
Page ____ of ____

Well/Sample Number MW-38D-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 0948 Purge Method REDFLOW 2 Ded. Pump ____

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 61.46 Purge Rate (gpm)/(mLpm) 2.9

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
71.42	0952	13	7.75	18.2	2.45	2.12	31.00	1.1	12	84	
71.47	0957	26	7.95	22.4	0.76	1.73	31.60	1.4	15	78	
71.47	1002	39	7.99	22.4	0.53	1.68	31.70	1.4	15	75	
71.47	1007	52	8.00	22.2	0.57	1.70	31.80	1.3	14	71	
71.47	1012	65	8.01	22.2	0.39	1.66	31.90	1.3	14	68	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TOT PURGE 68 Gal
Did Parameters Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 10:20 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: ____

HORIBA PGE
HACH PGE 2005-01

Initial Depth to Water (ft BTOC): 70.48

WD (Well Depth - from table) ft btc (191)

SWH (Standing Water Height) = WD-Initial Depth 120.52

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

One Casing Volume = D*SWH 20.48

Three Casing Volumes = 61.46

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 ~~N/A~~
Time	Initial DTW	Time	Final DTW	Time of Reinstallation N/A
0946	70.48	1023	70.61'	
Comments:	NO TRANSDUCER IN WELL.			

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 328225.GM.02.00
Field Team 1 Field Conditions HOT ## CLEAR

Sampling Event 2005-070-Q2
Date 6-17-05
Page _____ of _____

Well/Sample Number MW-38S-070 **QC Sample ID** ~~NA~~ MW38SEB-070 QC Sample Time 0945

Purge Start Time 0912 Purge Method REDI Flow 2 Ded. Pump _____

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 14.66 Purge Rate (gpm)/(mLpm) 1.1

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
71.10	0917	5.5	7.47	4.21	3.59	2.65	30.20	0.2	2.7	74	
71.10	0920	8.8	7.48	4.40	~~1.21~~ 1.21	2.50	30.20	0.2	2.9	64	
71.10	0923	12.1	7.49	4.48	0.69	2.54	30.20	0.2	2.9	59	
71.10	0926	15.4	7.48	4.54	0.48	2.87	30.20	0.2	2.9	55	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TOT PURGE 18 GAL.
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

Sample Time 0930 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____

Comments: _____

HORIBA PGE
HACH PGE2005-019

Initial Depth to Water (ft BTOC): 70.25

WD (Well Depth - from table) ft btc (98)

SWH (Standing Water Height) = WD-Initial Depth 28.75

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

One Casing Volume = D*SWH 4.88

Three Casing Volumes = 14.66

Measure Point: Well TOC / Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005-02

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal _____
0901	70.25	0938	70.25	Time of Reinstallation _____
Comments: NO TRANSDUCER in WELL.				

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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/16/05
Page ____ of ____

Well/Sample Number MW-39-040-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1110 Purge Method peristaltic pump Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 3.6 Purge Rate (gpm)/(mLpm) ~~0.3~~ 0.2

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
	1113	0.9	7.61	11.0	1	2.59	27.1	0.6	7	-145	
	1117		7.58	10.1	2	2.34	27.1	0.6	7	-183	
	1119		7.57	10.0	2	2.30	27.1	0.6	6	-185	
	1121	2.5	7.56	9.9	1	2.22	27.0	0.6	6	-189	
	1123	2.7	7.55	9.7	1	3.99	27.0	0.5	6	-188	
	1125		7.55	9.6	1	3.80	27.1	0.5	6	-193	
	1127		7.56	9.5	1	2.36	27.0	0.5	6	-196	
	1129	4.5	7.57	9.5	1	2.20	27.1	0.5	6	-199	
	1131	5.0	7.59	9.6	1	2.09	27.1	0.5	6	-202	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?							NA				

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

Comments: -

30 .04 120

Initial Depth to Water (ft BTOC): 12

WD (Well Depth - from table) ft btc (42)

SWH (Standing Water Height) = WD-Initial Depth 30

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

One Casing Volume = D*SWH 1.2

Three Casing Volumes = 3.6

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:				

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

1112.5

Project Name PGE Topock GMP
Job Number 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/16/05
Page ____ of ____

Well/Sample Number MW-39-050-070 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1335 Purge Method peristaltic Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 4.8 Purge Rate (gpm)/(mLpm) 0.2 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
—	1337	0.4	7.40	16.8	1	2.31	27.7	1.0	11	-98	
	1341	1.2	7.39	16.4	3	2.00	27.4	1.0	11	-104	
	1345	2.0	7.37	16.2	1	1.96	27.5	1.0	11	-87	
	1349	2.8	7.35	15.8	1	1.94	27.4	0.9	10	-73	
	1353	3.6	7.34	15.5	1	1.99	27.3	0.9	10	-62	
	1357	4.4	7.34	15.4	1	1.98	27.3	0.9	10	-54	
	1401	5.2	7.33	15.2	1	1.98	27.3	0.9	10	-48	
	1405	6.0	7.33	15.2	2	1.98	27.3	0.9	10	-44	
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 Stablize prior to sampling?			Y	Y		Y	NA		—		
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—		

Sample Time 1408 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: H_2O level not taken due to transducer setup

Initial Depth to Water (ft BTOC): 12

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

SWH (Standing Water Height) = WD-Initial Depth 38

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

One Casing Volume = D^1*SWH 1.6

Three Casing Volumes = 4.8

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

38
.04
1.56

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 GMP
Job Number 328225.GM.02.00
Field Team 3 Field Conditions HOT, CLEAR

Sampling Event 2005-070-Q2
Date 6/16/05
Page 1 of 1

Well/Sample Number MW-39-060-070 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1243 Purge Method peristaltic Ded. Pump NC

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 6.6 gal 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
	1245	0.3	7.31	16.4	3	3.20	27.4	1.0	11	-86	
	1249	0.9	7.28	16.9	7	2.18	27.3	1.0	11	-74	
	1253	1.7	7.14	17.8	3	2.09	27.2	1.1	12	-32	
	1257	2.5	7.13	18.3	2	2.04	27.3	1.1	12	-17	
	1301	3.3	7.13	18.0	1	1.98	27.2	1.1	12	-4	
	1309	4.9	7.13	18.0	5	1.94	27.1	1.1	12	7	
	1317	5.9	7.13	17.8	4	1.86	27.2	1.1	12	14	
	1321	6.6	7.13	17.6	2	1.85	27.3	1.1	11	18	
	1325	7.3	7.13	17.6	1	1.86	27.3	1.0	11	19	
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 Stablize prior to sampling?			✓	✓	—	✓	NA		✓	✓	
Are measurements consistent with previous?							NA				

Sample Time 1330 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: No H_2O level taken due to transducer configuration

Initial Depth to Water (ft BTOC): 12

WD (Well Depth - from table) ft btc (66)

SWH (Standing Water Height) = WD-Initial Depth 54

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in) .04

One Casing Volume = D*SWH 2.2

Three Casing Volumes = 6.6 gal

54 × .04 = 2.16

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

Initial DTW / Before Removal		If Transducer: 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 GMP
Job Number 328225.GM.02.00
Field Team 3 Field Conditions SUNNY/CLEAR

Sampling Event 2005-070-Q2
Date 6/16/05
Page 1 of 1

Well/Sample Number MW-39-070-070 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1153 Purge Method peristaltic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 7.2 Purge Rate (gpm)/(mLpm) 0.3 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
NA	1154	0.3	7.31	15.5	3	5.12	27.3	0.9	10	-30	
	1158	1.5	7.29	14.8	4	1.98	26.9	0.9	10	-11	
	1202	2.7	7.14	15.9	2	1.89	26.8	0.9	10	8	
	1206	4.0	7.12	15.9	4	1.88	26.7	0.9	10	12	
	1210	5.2	7.13	16.0	1	1.84	26.8	0.9	10	16	
	1214	6.4	7.14	15.9	2	1.80	26.7	0.9	10	20	
	1218	7.6	7.15	16.0	5	1.81	26.7	0.9	10	22	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			Y	Y	—	Y	NA	—	—	Y	

Sample Time 1223 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: - NO WL TAKEN DUE TO TUBING & Transducer configuration

60
.04
2.4

Initial Depth to Water (ft BTOC): 12

WD (Well Depth - from table) ft btc (72)

SWH (Standing Water Height) = WD-Initial Depth 60

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

One Casing Volume = D*SWH 2.4

Three Casing Volumes = 7.2

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 ____
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 328225.GM.02.00
Field Team 3
Field Conditions Hot Hot Hot

Sampling Event 2005-070-Q2
Date 6-16-05
Page 1 of 1

Well/Sample Number MW-39-080-070
QC Sample ID NA
QC Sample Time —
Purge Start Time 1410
Purge Method peristaltic Ded. Pump —
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 8.5 Purge Rate (gpm)/(mLpm) 0.2

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
—	1418	~~1.6~~ 1.6	7.13	17.4	2	2.03	27.8	1.0	11	11	
—	1426	~~3.2~~ 3.2	7.14	17.3	28	1.95	27.6	1.0	11	26	
—	1434	4.8 ~~4.0~~	7.15	17.1	1	1.95	27.7	1.0	11	33	
—	1442	6.4 ~~5.~~	7.16	17.2		1.90	27.2	1.0	11	40	
—	1450	8.0	7.16	17.0	4	1.99	27.7	1.0	11	43	
—	1458	9.6	7.16	16.9	2	2.02	27.6	1.0	11	46	
—	1506	11.2	7.16	16.3	2	1.92	27.6	1.0	11	53	
—	1514	12.8	7.17	16.8		1.99	27.6	1.0	11	52	
—											
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Are measurements consistent with previous?			Y		—		NA	—	—	Y	

Sample Time 1515 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: Water level not taken due to tubing + transducer interference

Initial Depth to Water (ft BTOC): 12
WD (Well Depth - from table) ft btc (83)
SWH (Standing Water Height) = WD-Initial Depth 71
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (1 in)
One Casing Volume = D*SWH 2.84
Three Casing Volumes = 8.5 gal

71
.04
2.84

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 —
—	—	—	—	
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 328225.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2005-070-Q2
Date 6/17/05
Page 1 of 1

Well/Sample Number MW-39-100-070 **QC Sample ID** NA QC Sample Time

Purge Start Time 1053 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 55 Purge Rate (gpm)/(mLpm) 2

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
13.54	1056	6	7.45	17.9	2.79	2.3	28.8	1.07	11	-7	
13.57	1059	12	7.51	18.5	1.00	2.3	28.9	1.11	12	-4	
13.58	1102	18	7.91	19.3	0.98	2.8	29.3	1.16	12	5	
13.60	1105	24	7.73	19.3	0.93	2.8	29.5	1.16	12	13	
13.60	1108	30	7.74	19.3	1.18	2.9	29.3	1.16	12	18	
13.60	1111	36	7.77	19.3	0.75	2.9	29.3	1.16	12	21	
13.60	1117	48	7.83	19.3	0.67	2.8	29.4	1.15	12	-60	
13.60	1120	54	7.80	19.3	0.77	2.8	29.3	1.15	12	-2	
13.62	1123	60	7.89	19.2	0.62	2.8	29.3	1.15	12	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 Stablize prior to sampling?			Y	Y	Y	Y	NA	-		?	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	-			

Sample Time 1128 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Horriba C101050
Hach 101655

Initial Depth to Water (ft BTOC): 13.6

WD (Well Depth - from table) ft btc (118)

SWH (Standing Water Height) = WD-Initial Depth

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

One Casing Volume = D*SWH 17.75

Three Casing Volumes = 53.2 ≈ 55

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		If Transducer: Time of Removal — / Time of Reinstallation —
Time	Initial DTW	Time	Final DTW	
1050	13.60	1131	1307	

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 328225.GM.02.00
Field Team 1 Field Conditions HOT + DRY / CLEAR

Sampling Event 2005-070-Q2
Date 6-16-05
Page _____ of _____

Well/Sample Number MW-40D-070 **QC Sample ID** NA X X QC Sample Time _____
Purge Start Time 09159 Purge Method REDI Flow 2 Ded. Pump _____
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 79.14 Purge 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
112.87	~~10.03~~	15	7.50	14.4	2.32	2.86	33.02	0.8	9	-258	
112.87	10:06	24	7.53	14.8	1.97	2.72	33.28	0.9	9	-240	
112.89	10:09	33	7.61	15.3	1.19	2.44	33.19	0.9	9	-202	
112.90	10:12	42	7.61	15.1	0.88	2.26	33.28	0.9	9	-188	
112.90	10:15	51	7.61	15.0	0.61	2.15	33.27	0.9	9	-179	
112.91	10:18	60	7.61	15.0	0.56	2.07	33.26	0.9	9	-170	
112.91	10:21	69	7.60	14.7	0.66	2.01	33.26	0.9	9	-161	
112.91	10:25	~~80~~	7.60	14.5	0.45	1.96	33.36	0.8	9	-149	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	N	
Are measurements consistent with previous?			Y	~~N~~		N	NA			N	

Sample Time 10:30 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____
Comments: _____

HORIBA = C101620
HACH PGE 2005-01
PGE 2005-02

Initial Depth to Water (ft BTOC): 110.81
WD (Well Depth - from table) ft btc (266)
SWH (Standing Water Height) = WD-Initial Depth 155.19
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 26.38
Three Casing Volumes = 79.14

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 N/A
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
09:48	110.81	1040	110.96	
Comments: NO TRANSDUCER				

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 328225.GM.02.00
Field Team 1 Field Conditions Clear – Hot.

Sampling Event 2005-070-Q2
Date 06-16-05
Page _____ of _____

Well/Sample Number MW-40S-070
QC Sample ID NA MW-40S-EB-070 **QC Sample Time** 09:45
Purge Start Time 09:12
Purge Method 2" RedyFlow 2 Ded. Pump _____
Flow Cell Y / N
Min. Purge Volume (gal)/(L) 12.03 Purge Rate (gpm)/(mLpm) 1.0 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
[redacted]	09:17	5	7.60	1.97	48.2	6.19	32.58	0.1	1.3	135	WATER BROWN
110.51	09:20	8	7.65	1.94	16.0	5.98	32.57	0.1	1.2	139	
110.51	09:23	11	7.69	1.92	5.69	5.95	32.47	0.1	1.2	141	
110.51	09:26	14	7.71	1.91	2.58	5.96	32.32	0.1	1.2	142	
110.51	09:29	17	7.72	1.90	2.24	5.97	32.27	0.1	1.2	143	
											TOTAL PURGE 20 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 Stablize prior to sampling?	Y	Y		Y	NA			Y	
Are measurements consistent with previous?	Y	Y		Y	NA			Y	

Sample Time 09:30 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____
Comments: Final DTW was checked twice

HORIBA # C101626
HACH #PGE 2005-01B

Initial Depth to Water (ft BTOC): 110.36
WD (Well Depth - from table) ft btc (134)
SWH (Standing Water Height) = WD-Initial Depth 23.64
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in)
One Casing Volume = D*SWH 4.01
Three Casing Volumes = 12.03

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
0900	110.36	09:47	110.34	

Comments: NO TRANSDUCER IN WELL

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 328225.GM.02.00
Field Team 1 Field Conditions Hot/Clear

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of ____

Well/Sample Number MW-41D-070 **QC Sample ID** NA — QC Sample Time —

Purge Start Time 0930 Purge Method Redi-flo2 Ded. Pump NO

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 148 gal Purge Rate (gpm)/(mLpm) 3gpm

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
25.23	0935	15	7.09	11.9	14.5	6.77	30.57	.76	9	-264	WATER is clear
25.25	0940	30	7.52	19.9	2.29	4.44	30.56	1.20	12	-257	w/slight Sulphur
25.26	0945	45	7.79	20.0	2.39	3.60	31.41	1.21	12	-252	odor.
25.26	0950	60	7.77	20.9	1.08	1.80	31.55	1.26	13	-227	
25.28	0955	75	7.77	21.0	.69	3.47	31.65	1.26	13	-222	
25.28	1000	90	7.76	21.0	.69	3.36	31.68	1.27	13	-218.	-ODOR is gone.
—	1005	105	7.76	20.9	.69	3.30	31.67	1.27	13	-217	
25.30	1010	120	7.76	20.9	.70	3.27	31.66	1.27	13	-215	
25.30	1016	150	7.75	21.0	.70	3.17	31.67	1.27	13	-212.	
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 Stablize prior to sampling?			y	y	y	y	NA	NA	NA	y	
Are measurements consistent with previous?			y	y	y	y	NA	NA	NA	y	

Sample Time 1020 Sample Location: pump tubing ✗ well port ____ spigot ____ bailer ____ other ____

Comments: We have no previous data to compare to.

Initial Depth to Water (ft BTOC): 23.98

WD (Well Depth - from table) ft btc (313)

SWH (Standing Water Height) = WD-Initial Depth 289.02

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

One Casing Volume = D*SWH 49.13 X 3

Three Casing Volumes = 147.40

Measure Point: Well TOC / Steel Casing

WATER LEVEL METER SERIAL NUMBER: 2005-01B 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal —
Time	Initial DTW	Time	Final DTW	Time of Reinstallation —
9:10	23.98	1025	24.05	

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 328225.GM.02.00
Field Team 1 Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6/14/05
Page 2 of ____

Well/Sample Number MW-41M-070 **QC Sample ID** MW-98-070 QC Sample Time 1200
Purge Start Time 1042 Purge Method Redi-Flo2 Ded. Pump NO
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 86gal Purge Rate (gpm)/(mLpm) 3gpm

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
24.98	1047	15	7.51	13.0	1.21	4.90	30.52	.75	8	-52	Clear/No odor.
24.62	1052	30	7.61	13.7	2.19	3.70	30.92	.79	8	-87	
24.60	1057	45	7.63	13.7	.86	3.03	30.82	.79	9	-102	
24.60	1102	60	7.63	13.7	1.19	2.42	30.86	.79	8	-105	
24.60	1107	75	7.63	13.8	1.19	2.84	30.88	.78	9	-106	
24.60	1112	90	7.62	13.8	.58	2.78	30.90	.79	9	-106	
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 Stablize prior to sampling?			y	y	y	y	NA	NA	NA	y	
Are measurements consistent with previous?							NA	NA	NA		

Sample Time 1115 Sample Location: pump tubing D well port ____ spigot ____ bailer ____ other ____
Comments: No previous data to compare too.

Initial Depth to Water (ft BTOC): 23.83
WD (Well Depth - from table) ft btc (192)
SWH (Standing Water Height) = WD-Initial Depth 168.17
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 28.58 x 3
Three Casing Volumes = 85.74.

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal ____ Time of Reinstallation ____
1031	23.83	1121	24.03	

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 328225.GM.02.00
Field Team 1
Field Conditions Hot/Clear (100°)

Sampling Event 2005-070-Q2
Date 6/14/05
Page 3 of ____

Well/Sample Number MW-41S-070
QC Sample ID NA
QC Sample Time ____
Purge Start Time 1132
Purge Method Redi-flo2 Ded. Pump NO
Flow Cell (Y) N
Min. Purge Volume (gal)/(L) 20 gal 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
24.03	11,35	6	7.82	5.79	247	4.37	31.89	.30	3.5	-52	Clear w/No
24.03	1138	12	7.78	4.49	31.9	4.31	30.48	.23	2.9	-48	odor.
24.03	1141	18	7.78	4.47	9.89	4.30	30.52	.23	2.8	-49	
24.03	1144	24	7.78	4.45	6.94	4.30	30.54	.23	2.8	-50	
24.03	1147	30	7.79	4.46	2.46	4.28	30.56	.23	2.8	-45	

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 Stablize prior to sampling?	y	y	y	y	NA	NA	NA	y	
Are measurements consistent with previous?					NA	NA	NA		

Sample Time 1150 Sample Location: pump tubing ∝ well port ____ spigot ____ bailer ____ other ____
Comments: No previous data to compare to:

Initial Depth to Water (ft BTOC): 23.86
WD (Well Depth - from table) ft btc (62)
SWH (Standing Water Height) = WD-Initial Depth 38.14
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 6.48 x 3
Three Casing Volumes = 19.45

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 11881

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal ____
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ____
1121	23.86	1155	23.88	
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 328225.GM.02.00
Field Team 2 Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6/20/05
Page 3 of 3

Well/Sample Number MW-43-025-070 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1154 Purge Method Redi-Flo2 Ded. Pump NO
Flow Cell (Y) N Min. Purge Volume (gal)/(L) 11 gal 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
—	1137	3	7.34	2.13	6.20	2.06	21.0	.1	1.3	-165	Clear No odor
6.70	1140	6	7.37	2.00	2.95	1.97	21.0	.1	1.3	-167	
6.72	1143	9	7.36	1.74	1.87	1.91	21.0	.1	1.1	-171	
6.72	1146	12	7.36	1.75	1.43	1.89	21.0	.1	1.1	-172	
	1149	15	7.36	1.80	.82	1.88	21.0	.1	1.2	-174	

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 Stablize 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 1152 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): ~~6.18~~ 6.23
WD (Well Depth - from table) ft btc (27)
SWH (Standing Water Height) = WD-Initial Depth ~~20.82~~ 20.77
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 3.53 X3
Three Casing Volumes = 10.59

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: ~~2005~~ 03

Initial DTW / Before Removal		If Transducer		
Time	Initial DTW	Approx. 5 min After Reinstallation Time	Final DTW	Time of Removal ~~0922~~ 1131
~~0921~~	~~6.28~~	1205	6.35	Time of Reinstallation 1200
Comments: 1130	6.23			

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 328225.GM.02.00
Field Team 2 Field Conditions Hot & Clear

Sampling Event 2005-070-Q2
Date 6/20/05
Page 2 of 3

Well/Sample Number MW-43-075-070 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1052 Purge Method Redi-flo2 Ded. Pump No
Flow Cell (Y) N Min. Purge Volume (gal)/(L) 36 Purge Rate (gpm)/(mLpm) 1-2gpm

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
6.76	1058	6	7.40	17.2	1.75	1.96	21.90	1.0	11	-166	
6.78	1101	12	7.33	18.0	1.72	1.83	21.90	1.1	12	-164	
6.98	1104	18	7.31	18.1	1.60	1.78	21.8	1.1	12	-164	TURNED up to 2gpm
7.00	1107	24	7.31	18.1	.89	1.77	21.8	1.1	12	-164	
7.03	1110	30	7.31	18.1	.76	1.77	21.8	1.1	12	-164	
7.05	1113	36	7.31	18.1	.84	1.78	21.8	1.0	12	-165	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?			Y	Y	—	N	NA	NA	NA	Y	

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

Initial Depth to Water (ft BTOC): 6.25
WD (Well Depth - from table) ft btc (77)
SWH (Standing Water Height) = WD-Initial Depth 70.75
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 11.94X3
Three Casing Volumes = 35.82

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 2005-05

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1015 / Time of Reinstallation 1124
0921	6.18	1130	6.58	
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 328225.GM.02.00
Field Team 2 Field Conditions WARM & Clear

Sampling Event 2005-070-Q2
Date 6/20/05
Page 1 of 3

Well/Sample Number MW-43-090-070 **QC Sample ID** MW-99-070 QC Sample Time ~~1000~~ 1015
Purge Start Time 0930 Purge Method Redi-Flo2 Ded. Pump No
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 49 Purge Rate (gpm)/(mLpm) 2gpm

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
6.95	0933	0-6	7.08	17.1	8	7.42	22.1	1.0	11	13	No Color / No Odor
7.90	0936	12	7.00	22.4	2.35	7.16	22.2	1.4	15	-147	
7.93	0939	18	6.93	26.8	.75	2.88	22.3	1.7	17	-149	
7.95	0942	24	6.91	26.7	.97	2.00	22.3	1.6	17	-147	
7.96	0945	30	6.90	26.4	.68	1.94	22.3	1.6	17	-146	
7.97	0948	36	6.88	26.5	.59	1.85	22.3	1.6	17	-144	
7.97	0951	40	6.87	26.3	.45	1.81	22.3	1.6	17	-142	
7.97	0954	46	6.86	26.3	.44	1.81	22.3	1.6	17	-141	
7.98	0957	52	6.84	26.2	.22	1.79	22.3	1.6	17	-140	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	NA	NA	Y	

Sample Time 1000 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 6.18
WD (Well Depth - from table) ft btc (102)
SWH (Standing Water Height) = WD-Initial Depth 95.82
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04 (2 in) .17
One Casing Volume = D*SWH 16.28 x3
Three Casing Volumes = 48.86

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 2005-03

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 9.25
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 10.15
0921	6.18	1020	6.28	

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 328225.GM.02.00
Field Team 3 Field Conditions Hot 109°F

Sampling Event 2005-070-Q2
Date 6-15-05
Page 1 of 1

Well/Sample Number ParkMoabi-070 **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
—	1504	—	8.13	1.44	14	5.93	31.08	0.1	0.9	158	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1505 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): _____

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 (8 in)

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

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
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 328225.GM.02.00
Field Team 3 Field Conditions clear/hot

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number NR-1-070 **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
	942		8.09	2.07	0.0	9.14	20.2	0.1	1.3	135	
	953		8.07	2.09	0.0	9.03	20.2	0.1	1.3	134	Turbidity reading incorrect
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 0953 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other surface

Comments:

Initial Depth to Water (ft BTOC):
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 =

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
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 328225.GM.02.00
Field Team 3 Field Conditions clear/hot

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number NR-2-070 **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
	1006	-	8.19	2.25	0.0	9.32	20.1	0.1	1.4	127	
	1014	-	8.17	1.90	1.0	9.20	20.0	0.1	1.2	126	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1013 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other surface

Comments: _____

Initial Depth to Water (ft BTOC): _____
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 = _____

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 _____
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 328225.GM.02.00
Field Team 3 Field Conditions Sunny/Hot

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number NR-3-070 **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
—	1025	—	8.22	2.13	0.00	9.24	20.0	0.1	1.4	124	
—	1031	—	8.23	1.89	1.01	9.14	20.1	0.1	1.2	121	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1030 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): _____

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 = _____

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 _____

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 328225.GM.02.00
Field Team 3 Field Conditions Sunny 100° F

Sampling Event 2005-070-Q2
Date 6-14-05
Page 1 of 1

Well/Sample Number CON-070 **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
—	1136	—	8.27	2.17	5.24	9.65	21.8	0.1	1.4	132	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): ____
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 = ____

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

Initial DTW / Before Removal		If Transducer: 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 GMP
Job Number 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number I-3-070 **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
	1431	-	8.17	2.04	4.9	9.72	21.2	0.1	1.4	101	Turbidity measured using Horiba
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1430 Sample Location: pump tubing well port spigot bailer other

Comments:

Initial Depth to Water (ft BTOC):
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 =

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
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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number RRB-070 **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
20.99	1215	—	8.23	3.57	3.60	8.90	26.2	0.2	2.3	121	
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1210 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Parameters taken in 5 gal bucket

Initial Depth to Water (ft BTOC): 20.99 ft

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 =

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
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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number R-22-070 **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
—	1251	—	8.18	1.96	5.6	9.58	21.4	0.1	1.3	128	use turbidity measurements from Horiba, HACH sample jar broke.
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1250 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): ____

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 = ____

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 ____
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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number R-27-070 **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
-	1316	-	8.24	1.77	17.2	9.43	22.2	0.1	1.2	121	~~Turbidity~~ turbidity measured using Horriba, Active Area of river.
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): ____
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 = ____

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 ____
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 328225.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2005-070-Q2
Date 6/14/05
Page 1 of 1

Well/Sample Number R-28-070 **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
—	1341	—	8.25	1.61	3.9	9.42	21.7	0.1	1.0	120	turbidity measured using the Horiba
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 Stablize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time 1340 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): _____

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 = _____

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 _____
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

943571

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-01TLI
TURNAROUND TIME 5 Days
DATE 6/13/2005 PAGE 1 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	328225.GM.02.00
SAMPLERS (SIGNATURE)	[signature]

Rec'd 06/13/05 ~~0236~~ 943571

ALERT!! Level III QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
1	MW-31-060-070	6/13/2005	13:00	Groundwater		x		x	(x)	(x)	x		6	pH: 7
2	MW-31-135-070	6/13/2005	11:57	Groundwater		x		x	(x)	(x)	x		4	pH: 7
3	MW-35-060-070	6/13/2005	13:25	Groundwater	x			x	(x)	(x)	x		4	PH = 7
4	MW-35-135-070	6/13/2005	14:45	Groundwater	x			x	(x)	(x)	x		4	PH = 7
5	MW-94-070	6/13/2005	12:30	Groundwater		x		x	x	x			4	PH: 7
6	MW-31-135-EB-70	6/13/2005	12:50	Groundwater	X			~~X~~						PH = 6

1 bottle used for pH + cond for 31 series and 35 series wells

TOTAL NUMBER OF CONTAINERS 22

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Dan Cirby	CH2M Hill	6-13-05 1608
Signature (Received) [signature]	Sveamu Nishiguchi	Executive Courier 8779	6/13/05 1608
Signature (Relinquished)			
Signature (Received) [signature]	J Brown	TLI	6-13-05 20:00
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

RUSH

943572

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-01TLI
TURNAROUND TIME 10 Days
DATE 6/13/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE [signature]

ALERT!! Level III QC

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered							NUMBER OF CONTAINERS	COMMENTS
W-12-070	6/13/2005	10:57	Groundwater		x		x	(x)	(x)									3	pH = 7
W-26-070	6/13/2005	11:45	Groundwater		x		x	(x)	(x)	x								4	pH = 7
																		7	TOTAL NUMBER OF CONTAINERS

16:44

Rec'd 06/13/05 943572
s236

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) [signature]	Printed Name Dan Cichy	Company/ Agency CH2M Hill	Date/ Time 6-13-05 1608
Signature (Received) [signature]	Printed Name —	Company/ Agency —	Date/ Time —
Signature (Relinquished) [signature]	Printed Name Sparrow Mishiguch	Company/ Agency Executive Courier-8177	Date/ Time 6-13-05 1648
Signature (Received) [signature]	Printed Name J Brown	Company/ Agency TL	Date/ Time 6-13-05 20:00
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:

05F141

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

D3

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-01EMAX
TURNAROUND TIME 10 Days
DATE 6/13/2005 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: 328225.GM.02.00
SAMPLERS (SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Mercury (7470A) - Field Filtered	Metals (SW6010) - Field Filtered	Nitrate, Chloride, Fluoride, Bromide, Sulfate (300.0)		Alkalinity (310.1)	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
MW-12-070	6/13/2005	10:57	Groundwater	x	x							2	Title 22 6020
MW-26-070	6/13/2005	11:45	Groundwater		x	x	x	x	x	x		5	Dissolved Ca,Mg,K,Na,B,Fe,Mn 6010B
MW-31-060-070	6/13/2005	13:00	Groundwater		x	x	x	x	x	x		5	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-31-135-070	6/13/2005	11:57	Groundwater		x	x	x	x	x	x		5	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-35-060-070	6/13/2005	13:25	Groundwater		x	x	x	x	x	x		5	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-35-135-070	6/13/2005	14:45	Groundwater		x	x	x	x	x	x		5	Dissolved Ca,Mg,K,Na,B,Fe,Mn
												27	TOTAL NUMBER OF CONTAINERS

T=3.4°C

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Dan Cichy	CH2M Hill	6-13-05 1608
Signature (Received) [signature]	Sparrow Nishigekai	Executive Courier 8779	6/13/05 1608
Signature (Relinquished)			
Signature (Received) [signature]	Phil Hatcher	EMAX	6 14 05 11:10
Signature (Relinquished) [signature]	Phil Hatcher	EMAX	6·14 05 1645
Signature (Received) [signature]	SITNIKOV	EMAX	06.14.05 16:45

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

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

[2005-070-Q2]

COC Number 2005-070-01ZYM
TURNAROUND TIME 10 Days
DATE 6/13/2005 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	328225.GM.02.00
SAMPLERS (SIGNATURE	Dan Coty

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-26-070	6/13/2005	11:45	Groundwater	x	1	39744-1
MW-31-060-070	6/13/2005	13:00	Groundwater	x	1	-2
MW-31-135-070	6/13/2005	11:57	Groundwater	x	1	-3
MW-35-060-070	6/13/2005	13:25	Groundwater	x	1	-4
MW-35-135-070	6/13/2005	14:45	Groundwater	x	1	-5
					5	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Dan Coty	Dan Coty	CH2M Hill	6-13-05 1608
Signature (Received) Sparrow Nishigoch	Sparrow Nishigoch	Executive Courier 8779	6/13/05 1608
Signature (Relinquished)			
Signature (Received)	Eric Fenning	Zymax	6-21 1000
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

943644

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-02TLI
TURNAROUND TIME 5 Days
DATE 6/14/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE

ALERT !!
Level III QC

Rec'd 06/14/05
943644

RUSH

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS		COMMENTS
1	CON-070	6/14/2005	11:36	Surfacewater	x			x	x	x			4	3	PH-7
2	I-3-070	6/14/2005	14:30	Surfacewater	x			x	x	x			4	3	PH-7
3	NR-1-070	6/14/2005	9:53	Surfacewater	x			x	x	x			4	3	PH-7
4	NR-2-070	6/14/2005	10:13	Surfacewater	x			x	x	x			4	3	PH-7
5	NR-3-070	6/14/2005	10:30	Surfacewater	x			x	x	x			4	3	PH-7
6	R-22-070	6/14/2005	12:51	Surfacewater	x			x	x	x			4	3	PH-7
7	R-27-070	6/14/2005	13:15	Surfacewater	x			x	x	x	x		5	4	PH-7
8	R-28-070	6/14/2005	13:40	Surfacewater	x			x	x	x	x		5	4	PH-7
9	RRB-070	6/14/2005	12:10	Surfacewater	x			x	x	x			4	3	PH-7

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)		CH2M HILL	6/14/05 1830
Signature (Received)	L. Shakespeare	TLI	6/14/05
Signature (Relinquished)			20:05
Signature (Received)			
Signature (Relinquished)			
Signature			

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

[2005-070-Q2]

943645

COC Number 2005-070-02TLI
TURNAROUND TIME 10 Days
DATE 6/14/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE

ALERT !!
Level III QC

COPY

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
-1	MW-13-070	6/14/2005	12:40	Groundwater	x			x	x	x			4	3
-2	MW-19-070	6/14/2005	10:23	Groundwater		x		x	x	x			4	3
-3	MW-21-070	6/14/2005	9:33	Groundwater	x			x	x	x			4	3
-4	MW-23-070	6/14/2005	9:07	Groundwater	x			x	x	x			4	3
-5	MW-25-070	6/14/2005	11:33	Groundwater		x		x	x	x	x		5	4
-6	MW-41D-070	6/14/2005	9:30	Groundwater	x			x	x	x	x		5	4
-7	MW-41M-070	6/14/2005	11:15	Groundwater	x			x	x	x			4	3
-8	MW-41S-070	6/14/2005	11:15	Groundwater				x	x				5	4
	MW-41S-070	6/14/2005	11:32	Groundwater	x					x	x		5	4

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Rigazio	Company/ Agency CH2M Hill	Date/ Time 6/14/05 1530
Signature (Received) L. Shabunina	Printed Name L. Shabunina	Company/ Agency TLI	Date/ Time 6/14/05
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time 20:05
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:

For Sample Conditions
See Form Attached

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

943645

COC Number 2005-070-02TLI
TURNAROUND TIME 10 Days
DATE 6/14/2005 PAGE 2 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	328225.GM.02.00
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered							NUMBER OF CONTAINERS	COMMENTS
-9 MW-93-070	6/14/2005	12:00	Groundwater		X		X	X	X	X								5/4	
-10 MW-98-070	6/14/2005	12:00	Groundwater	X			X	X	X									4/3	
-11 MW-41D-EB-070 6/14/05 10:30				X			X											49	TOTAL NUMBER OF CONTAINERS
																		38	

Added by TLI staff.

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Higgins	CH2M Hill	Date/ Time 6/14/05 1530
Signature (Received) L. Shaburning	L. Shaburning	TLI	Date/ Time 6/14/05 20:05
Signature (Relinquished)			Date/ Time
Signature (Received)			Date/ Time
Signature (Relinquished)			Date/ Time
Signature (Received)			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

[2005-070-Q2]

COC Number 2005-070-02EMAX
TURNAROUND TIME 10 Days
DATE 6/14/2005 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	328225.GM.02.00
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Mercury (7470A) - Field Filtered	Metals (SW6010) - Field Filtered	Nitrate, Chloride, Fluoride, Bromide, Sulfate (300.0)	Alkalinity (310.1)	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)							NUMBER OF CONTAINERS	COMMENTS
MW-25-070	6/14/2005	11:33	Groundwater	x	x	x	x	x	x	x							7	Title 22, Ca,Mg,K,Na,B,Fe,Mn
MW-41D-070	6/14/2005	9:30	Groundwater		x	x	x	x	x	x							6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-41S-070	6/14/2005	11:15	Groundwater		x		x										6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-41S-070	6/14/2005	11:32	Groundwater			x		x	x	x							6	
MW-93-070	6/14/2005		Groundwater		x			x									7	Title 22, Ca,Mg,K,Na,B,Fe,Mn
MW-93-070	6/14/2005	12:00	Groundwater	x		x	x		x	x							7	
R-27-070	6/14/2005	13:15	Groundwater		x												6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
R-27-070	6/14/2005	13:15	Surfacewater			x	x	x	x	x							6	
R-28-070	6/14/2005	13:41	Surfacewater		X	X	X	x	X	x							6	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	CH2M HILL	Date/ Time 6/14/05 1530
Signature (Received)	L. Shakerring	TLI	Date/ Time 6/14/05 20:05
Signature (Relinquished)			Date/ Time
Signature (Received)			Date/ Time
Signature (Relinquished)			Date/ Time
Signature (Received)			Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

45

ZymaX envirotechnology, Inc.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 781-3686 ext. 118
Stephanie Dollahite

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number: 2005-070-02ZYM
TURNAROUND TIME: 10 Days
DATE: 6/14/2005 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: 328225.GM.02.00
SAMPLERS (SIGNATURE):

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-25-070	6/14/2005	11:33	Groundwater	x	1	39744-6
MW-41D-070	6/14/2005	9:30	Groundwater	x	1	-7
MW-41S-070	6/14/2005	11:15	Groundwater	x	1	-8
MW-93-070	6/14/2005	12:00	Groundwater	x	1	-9
R-27-070	6/14/2005	13:15	Surfacewater	x	1	-10
R-28-070	6/14/2005	13:41	Surfacewater	x	1	-11
					6	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Matt Ringier	CH2M Hill	6/14/05 1536
Signature (Received) [signature]	[signature]	Zymax	6-21-05 1000
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

[2005-070-Q2]

COC Number 2005-070-03TLI
TURNAROUND TIME 10 Days
DATE 6/15/2005 PAGE 1 OF 12

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 328225.GM.02.00
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered							NUMBER OF CONTAINERS	COMMENTS
MW-14-070	6/15/2005	10:53	Groundwater	x			x	x	x									4	
MW-18-070	6/15/2005	9:37	Groundwater	x			x	x	x									4	
MW-20-070-070	6/15/2005	10:13	Groundwater		x		x	x	x	x								5	
MW-20-100-070	6/15/2005	12:35	Groundwater		x		x	x	x	x								5	
MW-20-130-070	6/15/2005	11:13	Groundwater		x		x	x	x	x								5	
MW-37D-070	6/15/2005	13:35	Groundwater		x		x	x	x									4	
MW-37S-070	6/15/2005	12:44	Groundwater	x			x	x	x									4	
MW-91-070	6/15/2005	12:00	Groundwater	x			x	x	x									4	
MW-92-070	6/15/2005	10:30	Groundwater		x		x	x	x	x								5	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Rigi	CH2M HILL	6/15/05 1530
Signature (Received)	J Brown	TLI	6-15-05 1950
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

[2005-070-Q2]

COC Number 2005-070-03TLI
TURNAROUND TIME 5 Days
DATE 6/15/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	Hex Cr 218.6	Cr T 200.7					NUMBER OF CONTAINERS	COMMENTS
MW-28-025-070	6/15/2005	11:05	Groundwater	x			x	x	x	x								5	
MW-28-090-070	6/15/2005	12:15	Groundwater	x			x	x	x	x								5	
MW-29-070	6/15/2005	10:10	Groundwater	x			x	x	x									4	
Park Mobi	6/15/05	1505	GW					X	X			X	X					4	TOTAL NUMBER OF CONTAINERS
																		18	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Rigi	Company/ Agency CH2M Hill	Date/ Time 6/15/05 1520
Signature (Received)	Printed Name J Brown	Company/ Agency TLI	Date/ Time 6/15/05 1950
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

[2005-070-Q2]

COC Number 2005-070-03EMAX
TURNAROUND TIME 10 Days
DATE 6/15/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Mercury (7470A) - Field Filtered	Metals (SW6010) - Field Filtered	Nitrate, Chloride, Fluoride, Bromide, Sulfate (300.0)	Alkalinity (310.1)	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)								NUMBER OF CONTAINERS	COMMENTS
MW-20-070-070	6/15/2005	10:13	Groundwater	x	x	x	x	x	x	x								7	Title 22, Ca,Mg,K,Na,B,Fe,Mn
MW-20-100-070	6/15/2005	12:35	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-20-130-070	6/15/2005	11:13	Groundwater	x	x	x	x	x	x	x								7	Title 22, Ca,Mg,K,Na,B,Fe,Mn
MW-28-025-070	6/15/2005	11:05	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-28-090-070	6/15/2005	12:15	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-37D-070	6/15/2005	13:35	Groundwater	x	x													2	Title 22
MW-92-070	6/15/2005	10:30	Groundwater	x	x	x	x	x	x	x								7	Title 22, Ca,Mg,K,Na,B,Fe,Mn
																		41	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Rizzier	Company/ Agency CH2M	Date/ Time 6/15/05 1530	
Signature (Received)	Printed Name J Brown	Company/ Agency TRI	Date/ Time 6-15-05 1950	
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:

ZymaX envirotechnology, inc.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 781-3686 ext. 118
Stephanie Dollahite

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-03ZYM
TURNAROUND TIME 10 Days
DATE 6/15/2005 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	328225.GM.02.00
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-20-070-070	6/15/2005	10:13	Groundwater	x	1	
MW-20-100-070	6/15/2005	12:35	Groundwater	x	1	
MW-20-130-070	6/15/2005	11:13	Groundwater	x	1	
MW-28-025-070	6/15/2005	11:05	Groundwater	x	1	
MW-28-090-070	6/15/2005	12:15	Groundwater	x	1	
MW-92-070	6/15/2005	10:30	Groundwater	x	1	
					6	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Rinaldi	Company/ Agency CH2M	Date/ Time 6/15/05 1530
Signature (Received)	Printed Name J Brown	Company/ Agency TRI	Date/ Time 6-15-05 19:50
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:

LEDA

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

943760

COC Number 2005-070-04TLI
TURNAROUND TIME 5 Days
DATE 6/16/2005 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: 328225.GM.02.00
SAMPLERS (SIGNATURE: [signature]

ALERT!!
Level III QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
1	MW-33-090-070	6/16/2005	12:23	Groundwater	x			x	x	x	x		5	pH=7
2	MW-33-210-070	6/16/2005	13:54	Groundwater	x			x	x	x	x		5	pH=7
3	MW-39-040-070	6/16/2005	11:35	Groundwater	x			x	X	x	x		5	pH=7
4	MW-39-050-070	6/16/2005	14:08	Groundwater		x		x	x	x			4	pH=7
5	MW-39-060-070	6/16/2005	13:30	Groundwater		x		x	x	x			4	pH=7
6	MW-39-070-070	6/16/2005	12:23	Groundwater		x		x	x	x	x		5	pH=7
7	MW-39-080-070	6/16/2005	15:15	Groundwater		x		x	x	x			4	pH=7
8	MW-95-070	6/16/2005	12:55	Groundwater	x			x	x	x	x		5	pH=7
													37	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
(Relinquished) [signature]	Jim Sarabia	CH2M HILL	6/16/05 1527
(Received) [signature]	J Brown	TLI	6/16/05 2015
(Relinquished)			
(Received)			
(Relinquished)			
(Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

RUSH

2E DA

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2005-070-Q2] 943761

COC Number 2005-070-04TLI
TURNAROUND TIME 10 Days
DATE 6/16/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
1	MW-09-070	6/16/2005	14:47	Groundwater		x		x	x	x			4	pH=7
2	MW-10-070	6/16/2005	14:25	Groundwater		X		x	x	x			4	pH=7
3	MW-11-070	6/16/2005	13:40	Groundwater		x		x	x	x			4	pH=7
4	MW-24A-070	6/16/2005	12:40	Groundwater		x		x	x	x			4	pH=7
5	MW-24B-070	6/16/2005	12:15	Groundwater		x		x	x	x			4	pH=7
6	MW-40D-070	6/16/2005	10:30	Groundwater	x			x	x	x			4	pH=7
7	MW-40S-070	6/16/2005	9:30	Groundwater	x			x	x	x			4	pH=7
8	MW-90-070	6/16/2005	15:15	Groundwater		x		x	x	x			4	pH=7
9	MW-40S-EB-070	6/16/05	9:45		x			x					4	pH=7 / RH=7
												1	32	TOTAL NUMBER OF CONTAINERS

ALERT!! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Jim Sarabia	CH2M HILL	6/16/05 15:37
Signature (Received)	J Brown	TLI	6/16/05 20:15
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS
RECEIVED COOL ☐ WARM ☐ °F
CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

C18

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

[2005-070-Q2]

05F180

COC Number 2005-070-04EMAX
TURNAROUND TIME 10 Days
DATE 6/16/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Mercury (7470A) - Field Filtered	Metals (SW6010) - Field Filtered	Nitrate, Chloride, Fluoride, Bromide, Sulfate (300.0)	Alkalinity (310.1)	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)								NUMBER OF CONTAINERS	COMMENTS
MW-10-070	6/16/2005	14:25	Groundwater	x	x													2	Title 22 6020
MW-11-070	6/16/2005	13:40	Groundwater	x	x													2	Title 22
MW-33-090-070	6/16/2005	12:23	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-33-210-070	6/16/2005	13:54	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-39-040-070	6/16/2005	11:35	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-39-070-070	6/16/2005	12:23	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-95-070	6/16/2005	12:55	Groundwater		x	x	x	x	x	x								6	Dissolved Ca,Mg,K,Na,B,Fe,Mn
																		34	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Jim Sarabia	CH2M HILL	6/16/05 1537
Signature (Received)	Phil Hatcher	EMAX	6/17/05 1235
Signature (Relinquished)	Phil Hatcher	EMAX	6-17-05 1400
Signature (Received)	Jon Luna	emax	6-17-05 1400
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ @3.0°C

CUSTODY SEALED YES ☐ NO ☑ @3.2°C

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

[2005-070-Q2]

COC Number 2005-070-04ZYM
TURNAROUND TIME 10 Days
DATE 6/16/2005 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 328225.GM.02.00
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-33-090-070	6/16/2005	12:23	Groundwater	x	1	39744-18
MW-33-210-070	6/16/2005	13:54	Groundwater	x	1	-19
MW-39-040-070	6/16/2005	11:35	Groundwater	x	2	-20
MW-39-070-070	6/16/2005	12:23	Groundwater	x	1	-21
MW-95-070	6/16/2005	12:55	Groundwater	x	1	-22
					5	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Jim Sarabia	CH2M HILL	6/16/05 1537
Signature (Received)	Erin Bowers	Zymax	6-21-05 1000
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

[2005-070-Q2] 943795

COC Number 2005-070-05TLI
TURNAROUND TIME 5 Days
DATE 6/17/2005 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	328225.GM.02.00
SAMPLERS (SIGNATURE	

ALERT !!
Level III QC

Rec'd 06/17/05
s2# 943795

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
MW-32-020-070	6/17/2005	12:45	Groundwater	x			x	x	x	x		5	pH=7
MW-32-035-070	6/17/2005	12:25	Groundwater	x			x	x	x	x		5	pH=7
MW-33-040-070	6/17/2005	10:19	Groundwater	x			x	x	x	x		5	pH=7
MW-33-150-070	6/17/2005	10:12	Groundwater	x			x	x	x	x		5	pH=7
MW-39-100-070	6/17/2005	11:28	Groundwater		x		x	x	x	x		5	pH=7
												25	TOTAL NUMBER OF CONTAINERS

PUSH

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Truesdail	CH2M Hill	6/17/05 1515
Signature (Received)	Sharon Stanley	Executive Courier	6/17/05 1515
Signature (Relinquished)			
Signature (Received)	L. Stukenberg	TTI	6/17/05 19:10
Signature (Relinquished)			
Signature (Received)			

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

[2005-070-Q2] 943794

COC Number 2005-070-05TLI
TURNAROUND TIME 10 Days
DATE 6/17/2005 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: 328225.GM.02.00
SAMPLERS (SIGNATURE):

ALERT !! ... QC
Rec'd 06/17/05 #s2d 943794

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hexavalent Chromium (7199) - Lab Filtered	Hexavalent Chromium (7196A) - Lab Filtered	Hexavalent Chromium (218.6) - Lab Filtered	Total Dissolved Chromium (6010B) - Lab Filtered	pH (150.1)	Specific Conductance (120.1)	TDS (160.1)	Metals (200.7) - Lab Filtered	NUMBER OF CONTAINERS	COMMENTS
MW-15-070	6/17/2005	11:05	Groundwater	x			x	x	x			4	pH=7
MW-22-070	6/17/2005	10:35	Groundwater	x			x	x	x	x		5	pH=7
MW-38D-070	6/17/2005	10:20	Groundwater		x		x	x	x			4	pH=7
MW-38S-070	6/17/2005	9:30	Groundwater		x		x	x	x			4	pH=7
GMP-IDW-061705	6/17/05	0950	Purge water	X			X					~~17~~ 19	TOTAL NUMBER OF CONTAINERS pH=7
MW-38S-EB-070	6/17/05	0945	Equip Blank	X			X					2	pH=6
												21	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
(Relinquished) [signature]	B. Sattelle	CH2M Hill	6/17/05 1515
(Received) Sparrow 8779	Sparrow	Executive Courier	6/17/05 1515
(Relinquished)			
(Received) L. Shakeuming	L. Makeumin	TLI	6/17/05 19:20
(Relinquished)			
(Received)			

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

[2005-070-Q2]

COC Number 2005-070-05EMAX
TURNAROUND TIME 10 Days
DATE 6/17/2005 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: 328225.GM.02.00
SAMPLERS (SIGNATURE:

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Mercury (7470A) - Field Filtered	Metals (SW6010) - Field Filtered	Nitrate, Chloride, Fluoride, Bromide, Sulfate (300.0)	Alkalinity (310.1)	Ammonia (350.2)	Total Organic Carbon (415.2)	Silica (370.1)	NUMBER OF CONTAINERS	COMMENTS
MW-22-070	6/17/2005	10:35	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-32-020-070	6/17/2005	12:45	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-32-035-070	6/17/2005	12:25	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-33-040-070	6/17/2005	10:19	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-33-150-070	6/17/2005	10:12	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
MW-39-100-070	6/17/2005	11:28	Groundwater		x	x	x	x	x	x	5 ~~6~~	Dissolved Ca,Mg,K,Na,B,Fe,Mn
											30 ~~36~~	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) Bob Trelle	Printed Name Bob Trelle	Company/ Agency CH2M HILL	Date/ Time 6/17/05 1515
Signature (Received) Sparrow 8779	Printed Name SPARROW	Company/ Agency EXECUTIVE COURIER	Date/ Time 6/17/05 1515
Signature (Relinquished) L. Mabeenie	Printed Name L. Mabeenie	Company/ Agency MG	Date/ Time 6/17/05 19:10
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:

ZymaX envirotechnology, Inc.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 781-3685 ext. 118
Stephanie Dollahite

CHAIN OF CUSTODY RECORD

[2005-070-Q2]

COC Number 2005-070-05ZYM
TURNAROUND TIME 10 Days
DATE 6/17/2005 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	328225.GM.02.00
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-22-070	6/17/2005	10:35	Groundwater	x	1	39744-23
MW-32-020-070	6/17/2005	12:45	Groundwater	x	1	-24
MW-32-035-070	6/17/2005	12:25	Groundwater	x	1	-25
MW-33-040-070	6/17/2005	10:19	Groundwater	x	1	-26
MW-33-150-070	6/17/2005	10:12	Groundwater	x	1	-27
MW-39-100-070	6/17/2005	11:28	Groundwater	x	1	-28
					6	TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trelhide	CH2M Hill	6/17/05 1515
Signature (Received)	Sparrow 8779	Executive Courier	6/17/05 1515
Signature (Relinquished)			
Signature (Received)		Zymax	6-21-05 1000
Signature (Relinquished)			
Signature (Received)			

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

☐ TURNAROUND TIME Per Contract

DATE 6/20/05 PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Bock

PHONE _____ FAX 510-622-9210

ADDRESS Oakland, Ca

P.O. NUMBER _____

SAMPLERS (SIGNATURE) [signature]

SAMPLE I.D.	DATE	TIME	DESCRIPTION	METHODS: HEXCr 7199	TOTAL DISS Cr 6010B	PH, SC	TDS 160.1	NUMBER OF CONTAINERS	COMMENTS
MW43-090-070	6/20/05	1000	WATER	X	X	X	X	4	
MW-99-070	6/20/05	1015	WATER	X	X	X	X	4	
MW43-EB-070	6/20/05	1030	Water	X	X			2	
MW43-075-070	6/20/05	1115	water	X	X	X	X	4	
MW43-025-070	6/20/05	1152	water	X	X	X	X	4	

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	[signature]	Bob Trebilcock	CH2M HILL	6/20/05
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ _____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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. *
PROJECT CODE:

CLIENT: PG+E
PROJECT: TOPOCK Compressor Station
COORDINATOR: 510 622 9210
TEL / FAX / EMAIL
SEND REPORT TO: MATT Ringier
COMPANY: CH2M HILL
ADDRESS: OAkland, Ca
EMAX PM

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: DISS Metals (~~Hexavalent Chromium~~) | Chloride, SO4, Nitrate | Ammonia | Alk Carb + Bicarb | TOC | Diss. Silica

TAT:
- ☐ Rush ____ hrs.
- ☐ Rush ____ days
- ☐ 7 days
- ☐ 14 days
- ☐ 21 days
- ☐ 30 days
- ☐ ____ days
- ☐ Per Contract

LAB	SAMPLE ID (CLIENT)	LOCATION	DATE (2005)	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	DISS Metals	Chloride, SO4, Nitrate	Ammonia	Alk Carb + Bicarb	TOC	Diss. Silica		COMMENTS
1	MW43-090-070		6/20	1000	5	~~250~~	Poly	W		X	X	X	X	X	X		Metals Field Filtered
2	MW99-070		6/20	1015	5	250	Poly	W	✓	X	X	X	X	X	X		Metal Field Filtered
3	MW 43-025-070		6/20	1152			Poly	W		X	X	X	X	X	X		Metals Field Filtered
4	MW 43-075-070		6/20	1115			Poly	W		X	X	X	X	X	X		Metals Field Filtered
5																	
6																	
7																	
8																	
9																	
0																	

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER: Bob Trebble

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
B Trebble	6/20/05		

ZymaX

71 Zaca Lane
San Luis Obispo CA 93401
vox 805.544.4696
fax 805.544.8226

CLIENT EDD ☐ LUFT EDF ☐ DW EDT ☐

CHAIN of CUSTODY

report to Matt Ringler | vox ( ) | fax
company CH2M Hill | proj PG&E Topock
address 510-622-9210 FAX | proj # | sampler Bob Trebble

ANALYSIS REQUESTED

Turnaround Time: ASAP ☐ 48 hr ☐ 12 hr ☐ 72 hr ☐ 24 hr ☐ std ☐
Percentael

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	Oxygen, Dissolved	# of containers	Remarks
	MW43-090-070	6/20/05	1000	W		X		
	MW99-070	6/20/05	1015	W		X		
	MW43-625-070	6/20/05	1152	W		X		
	MW43-075-070	6/20/05	1115	W		X		
	~~MW44~~							

Comments

Relinquished by:
Signature Bob Trebble
Print Bob Trebble
Company CH2M Hill
Date 6/20/05 Time

Received by:
Signature
Print
Company
Date Time

Sample integrity upon receipt:
Samples received intact ☐
Samples received cold ☐
Custody seals ☐
Correct container types ☐

Bill 3rd party:

PO#:
Quote yes no

Relinquished by:
Signature
Print
Company
Date Time

Received by ZymaX envirotechnology, inc:
Signature
Print
Company
Date Time

email: login@ZymaXusa.com

TRUESDAIL 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 Per contract

DATE 6/21/05 PAGE 1 OF ____

COMPANY CH2M HILL – MATT Ringier
PROJECT NAME PG&E TOPOCK
PHONE 5102512426 FAX 5106229210
ADDRESS 155 Grand AVE SUITE 1000
OAKLAND, CA
P.O. NUMBER
SAMPLERS (SIGNATURE) [signature]

METHODS

SAMPLE I.D.	DATE	TIME	DESCRIPTION	HEX CR	TOTAL DISS CR	PH	SC	TDS										NUMBER OF CONTAINERS	COMMENTS
MW34-100-070	6/21/05	1255	WATER	X	X	X	X	X											
MW96-070	6/21/05	1300	WATER	X	X	X	X	X											Dup of 34-100

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) [signature]	Printed Name Bob Trebble	Company/ Agency CH2M HILL	Date/ Time 6/21/05 1500
Signature (Received) Sparrow 8779	Printed Name Sparrow 872	Company/ Agency Executive Courier	Date/ Time 6/21/05 1500
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:

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. *

PROJECT CODE:

CLIENT PG&E
PROJECT TO Rock
COORDINATOR MATT Ringler
TEL 5102512426 FAX 5106229210 EMAIL
SEND REPORT TO Matt Ringler
COMPANY CH2M Hill
ADDRESS 155 Grand Ave Suite 1000
OAKLAND, CA
EMAX PM

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: Filtered/Prs metals; CL, Br, SO4, Nitrate; Ammonia; Alk; TDC; Silica

TAT
- ☐ Rush ____hrs.
- ☐ Rush ____days
- ☐ 7 days
- ☐ 14 days
- ☐ 21 days
- ☐ 30 days
- ☐ ____days
- ☐ Per contract

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE (2005)	TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	PRESERVATIVE CODE	COMMENTS
1	MW34-100-070		6/21	1255						X X X X X X	
2	MW96-070		6/21	1300						X X X X X X	
3											
4											
5											
6											
7											
8											
9											
0											

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER Bob Trebble

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Bob Trebble	6/21/05	1500	Shannon 6/21/05 1500

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted 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.

ZymaX

71 Zaca Lane
San Luis Obispo CA 93401
vox 805.544.4696
fax 805.544.8226

CLIENT EDD ☐ LUFT EDF ☐ DW EDT ☐

CHAIN of CUSTODY

report to MATT Bingler	vox (510)251-2426	fax 5106229210
company CH2M HILL	proj PG&E TOPOCK	
address 155 Grand Ave Suite 1000 Oakland, Ca	proj #	
	sampler Bob Trebble	

ANALYSIS REQUESTED

Turnaround Time

ASAP ☐ 48 hr ☐
12 hr ☐ 72 hr ☐
24 hr ☐ std ☐

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	Oxygen 18	Deutrium	# of containers	Remarks
	MW34-100-070	10/21/05	1255	W	—	X	X		
	MW96-070	10/21/05	1300	W		X	X		

Comments

Relinquished by:
Signature Bob Trebble
Print Bob Trebble
Company CH2M Hill
Date 10/21/05 Time 1500

Received by:
Signature
Print
Company
Date Time

Sample integrity upon receipt:
Samples received intact ☐
Samples received cold ☐
Custody seals ☐
Correct container types ☐

Bill 3rd party:

PO#:
Quote yes no

Relinquished by:
Signature [illegible]
Print [illegible]
Company EXECUTIVE COURIER
Date 10/24/05 Time 1500

Received by ZymaX envirotechnology, inc:
Signature
Print
Company
Date Time

email: login@ZymaXusa.com

TRUESDAIL LABORATORIES, INC.
14201 FRANKLIN AVENUE · TUSTIN, CA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

CHAIN OF COSTODY RECORD

944215

[X] TURNAROUND TIME 5-DAYS
DATE 6/30/05 PAGE 1 OF 1

COMPANY CH2MHILL
PROJECT NAME Topock GMP
PHONE 510-251-2888 FAX 510-622-7086
ADDRESS 155 GRAND AVE. STE 1000
OAKLAND CA 94612
P.O. NUMBER 328225.GM.02.00
SAMPLERS (SIGNATURE) [signature]

METHODS: Hex Chrome (7199); Tot. Diss. Chr (6010B); pH (150.1); Spec. Cond. (120.1); TDS (160.1); Mercury (7470A); Filtered Metals (6010B); Oxy 18 & Deut (CF-IRMS)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Hex Chrome (7199)	Tot. Diss. Chr (6010B)	pH (150.1)	Spec. Cond. (120.1)	TDS (160.1)	Mercury (7470A)	Filtered Metals (6010B)	Oxy 18 & Deut (CF-IRMS)						NUMBER OF CONTAINERS	COMMENTS
MW-34-080	6/30/05	1520		X	X	X	X	X			X						5	pH=7

RUSH

ALERT!!
Level III QC

Rec'd 06/30/05
944215

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Ryan McClellan	CH2M HILL	6/30/05 1555
Signature (Received) Sparrow 8779	SPARROW 8779	EXECUTIVE COURIER	6/30/05 1550
Signature (Relinquished)			
Signature (Received) [signature]	J Brown	TLI	6/30/05 2010
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

5 TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Columbia Analytical Services INC.
An Employee-Owned Company

E MAX

CHAIN OF CUSTODY

5090 Caterpillar Road • Redding, CA 96003 • Phone: (530) 244-5227 • FAX: (530) 244-4109

COC # № 991283

Field	Value
Project #	328225.GM.02.00
Purchase Order #	
Project Name	PG&E TOPOCK GMP
Company Name	CH2M HILL
Project Manager or Contact & Phone #	MATT RINGIER 510-587-7510
Report Copy to:	FAX→ 510-622-7086
Requested Completion Date:	
Site ID	
Sample Disposal:	Dispose ☐ Return ☐

Requested Analytical Method #: TITLE 22 TOTAL METALS (6010B); ~~DISS METALS (6010B)~~; Diss Hg (7470A); Nitrate, Cl, F, Br, SO_4 (300.0); ~~Spec. Cond.~~, Alk (310.1); ~~Tot. D.~~ Ammon. (350.2); ~~TDS~~ TOC (415.2); Silica (370.1)

Preservative (to be filled out by customer)

Date	Time	COMP	GRAB	WATER	SOIL	AIR	CLIENT SAMPLE ID (9 CHARACTERS)	LAB QC	TOTAL # OF CONTAINERS	Total Metals (6010B)	~~Diss Metals (6010B)~~	Diss Hg (7470A)	Nitrate, Cl, F, Br, SO_4 (300.0)	Alk (310.1)	Ammon. (350.2)	TOC (415.2)	Silica (370.1)
6/30/05	1520			X			MW34800070		6	X	~~X~~	X	X	X	X	X	X

THIS AREA FOR LAB USE ONLY

Lab #	Page of
Lab PM	Custody Review
Log In	LIMS Verification
pH	Custody Seals Y N
	Ice Y N
QC Level 1 2 3 Other	
Cooler Temperature	
Alternate Description	Lab ID

	(Please sign and print name)	Date/Time		(Please sign and print name)	Date/Time
Sampled By and Title: JEFF KRAUSE			Relinquished By: Ryan McClellan (signature)	Ryan McClellan	6/30/05 1555
Received By: Sparrow 8779	Sparrow 8779	6/7/05 1600	Relinquished By:		
Received By: Jacqueline Brown (signature)	J Brown	6/30/05 22:00	Shipped Via: UPS Fed-Ex Other______	Shipping #	

Special Instructions:

INVOICE INFORMATION

P.O. # ______

Bill To ______

Instructions and Agreement Provisions on Reverse Side

Distributions – Original - Lab, Yellow - Lab, Pink - Client