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December 22, 2006

Mr. Aaron Yue
Project Manager
California Department of Toxic Substances Control
5796 Corporate Avenue
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Subject: Third Quarter 2006 Groundwater and Surface Water Monitoring Report
PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue:

Enclosed is the Third Quarter 2006 groundwater and surface water monitoring report for the Topock project. This quarterly monitoring event, which also satisfied semi-annual monitoring requirements, was conducted by PG&E during October 2-13, 2006. The event included monitoring and sampling of 92 groundwater monitoring wells and 9 shoreline surface water locations along the Colorado River. The Third Quarter monitoring report also presents results for the in-channel Colorado River sampling conducted in October 2006. If you have any questions on the groundwater and surface water monitoring report, please call me at (805) 546-5243.

Sincerely,

Julie Eakins for Yvonne Meeks

Enclosure

Groundwater and Surface Water Monitoring Report, Third Quarter 2006

PG&E Topock Compressor Station Needles, California

Prepared for

California Department of Toxic Substances Control

On Behalf of

Pacific Gas and Electric Company

December 22, 2006

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Groundwater and Surface Water Monitoring Report
Third Quarter 2006

PG&E Topock Compressor Station
Needles, California

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Pacific Gas and Electric Company

December 22, 2006

This report was prepared under the supervision of a

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Acronyms and Abbreviations

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
PG&E	Pacific Gas and Electric Company
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance and quality control
RFI	RCRA facility investigation
SAP	Sampling and Analysis Plan
TDS	Total dissolved solids
TSS	Total suspended solids
USEPA	United States Environmental Protection Agency

1.0 Introduction and Background

This report presents the results of the third quarter 2006 groundwater and surface water monitoring event conducted at Pacific Gas and Electric Company's (PG&E) Topock Compressor Station in October 2006. The Topock Groundwater and Surface Water Monitoring Program (GMP) is part of a Resource Conversation and Recovery Act 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.

1.1 Background

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 GMP. Additionally, the SAP recommended modifications to the monitoring locations, analyses, and sampling frequency for the GMP. On August 26, 2004, PG&E received verbal 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 analyzed in this 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. Sample collection for the IM Performance Monitoring Program is performed as part of the GMP quarterly monitoring events.

The wells screened in the unconsolidated alluvial fan and fluvial deposits, which comprise the Alluvial Aquifer, have been separated into three depth intervals to present groundwater quality and groundwater level data. The depth intervals of the Alluvial Aquifer—designated upper, middle, and lower—are based on grouping the monitoring wells screened at common elevations and do not represent distinct hydrostratigraphic units or

separate aquifer zones. The subdivision of the aquifer into three depth intervals is an appropriate construct for presenting and evaluating groundwater quality data at the site. The three-interval concept is also useful for presenting and evaluating lateral gradients while minimizing effects of vertical gradients and observing the influence of pumping from partially-penetrating wells. It should be noted, however, that these divisions do not correspond to any lithostratigraphic layers within the aquifer. The Alluvial Aquifer is considered to be hydraulically undivided.

1.2 GMP Monitoring Frequency History

Several changes have been made to the sampling frequency under the GMP since the July 2004 SAP was prepared. These changes have included modification to the sampling frequency and the incorporation of new monitoring wells into the sampling program. 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 2005a) that approved the inclusion of 11 additional monitoring wells in the GMP. DTSC has not yet provided final comments or approval of the April 2005 monitoring plan.

Table 1 presents a chronologic summary of agency requirements and directives issued since July 2004 (date of GMP SAP) that pertain to events conducted through October 2006 regarding modifications to the sampling frequency for GMP monitoring wells. On October 26, 2006, DTSC issued a letter revising the monitoring frequencies for the GMP and the shoreline surface water stations (DTSC 2006a). This letter was issued after the third quarter monitoring event and implementation details are discussed in Section 4.0.

TABLE 1
Topock GMP Monitoring Frequency Changes Through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval[a]	New Frequency & Wells
Comments on July 2004 SAP	1/25/2005	DTSC 2005b	Quarterly Title 22 Metals: MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D
IM Contingency Plan in response to MW-34-100 chromium levels	2/16/2005	DTSC 2005c	Weekly: MW-34-80, MW-34-100, MW-27-85, MW-27-60 Weekly (3 weeks): R-22, R-27, CON
Revised Contingency Plan sampling frequency	5/5/2005	DTSC 2005d	Weekly: MW-34-100 Biweekly: MW-27-85, MW-34-80 Monthly: MW-27-60
Preliminary comments to Monitoring Plan; incorporation of new floodplain wells	5/24/2005	DTSC 2005a	Weekly: MW-34-100 Biweekly: MW-27-85 Monthly: MW-27-60, MW-33-150, MW-33-210, MW-42-30, MW-42-55, MW-42-65, MW-43-25, MW-43-75, MW-43-90
Approval of sampling plan for depth-specific surface water sampling	6/30/2005	DTSC 2005e	Quarterly: C-CON, C-I-3, C-NR1, C-NR3, C-NR4, C-R22, C-R27, C-TAZ (monthly during low-river stages, usually November – January)

TABLE 1
Topock GMP Monitoring Frequency Changes Through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval[a]	New Frequency & Wells
Reduction in sampling frequency through September 2005 due to health and safety issues	7/20/2005	DTSC 2005f	Biweekly: MW-34-100 Monthly: MW-27-85, MW-28-90, MW-33-150, MW-33-210, MW-34-80, MW-36-90, MW-36-100, MW-39-80, MW-39-100, MW-43-75, MW-43-90
Modification to sitewide sampling frequency	9/6/2005	DTSC 2005g	Monthly: MW-27-85, MW-28-90, MW-33-210, MW-34-80, PE-1 Quarterly: MW-27-26, MW-27-20, MW-28-25, MW-29, MW-30-30, MW-30-50, MW-32-20, MW-32-35, MW-33-40, MW-33-90, MW-34-55, MW-36-20, MW-36-40, MW-36-50, MW-39-50, MW-39-60, MW-42-30, MW-42-35, MW-42-55, MW-42-65, TW-2D Semiannually: MW-9, MW-10, MW-11MW-15, MW-16, MW-17, MW-18, MW-24A, MW-24B, MW-38S, MW-38D, OW-3S, OW-3M, OW-3D Biennial: TW-1
Addition of new depth-specific surface water station	9/16/2005	DTSC – e-mail	Quarterly: C-MAR (monthly during low-river stages, usually November – January)
Initial sampling with conditional approval of well installation work plan	1/6/2006	DTSC 2006b	Monthly: (3 months, April - June) MW-44-70, MW-44-115, MW-44-125, MW-46-175, MW-46-205
Addition of monthly wells with PE-1 start approval	1/26/2006	DTSC 2006c	Monthly: MW-36-70, MW-39-70
Initiation of biweekly sampling of two new wells	3/17/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125
Transition of two wells to weekly sampling	4/13/2006	DTSC – phone	Weekly: MW-44-115, MW-44-125
Establish concentration trend for new well	4/25/2006	DTSC – e-mail	Biweekly: MW-46-175
Transition of two wells back to biweekly sampling	5/19/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125
Interim sampling frequency for new wells	5/25/2006	DTSC – e-mail	Biweekly: MW-44-115, MW-44-125, MW-46-175 Monthly: MW-46-205 Quarterly: MW-44-70, MW-47-55, MW-47-115, MW-48, MW-49-135, MW-49-275, MW-49-365, MW-50-95, MW-50-200, MW-51, TW-4, TW-5
Interim transition of two wells to quarterly sampling	6/6/2006	DTSC – e-mail	Quarterly: MW-43-75 and MW-43-90

[a] Referenced approval letters are identified in Section 5.0.
Table includes monitoring frequency change directives in effect for events conducted through October 2006.

1.3 Sampling Procedure Modification

At DTSC's request, in the spring of 2005, a chromium filtration comparison test was performed 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 samples analyzed for Cr(T) by USEPA Method 6010B should be filtered and preserved in the field after sample collection (CH2M HILL 2005c). In a June 2005 letter, DTSC agreed with the recommendations and directed the changes to be initiated for the July 2005 monthly event (DTSC 2005h). Since July 2005, all groundwater samples analyzed for Cr(T) by USEPA Method 6010B are being filtered and preserved in the field after sample collection.

1.4 Surface Water Monitoring Modification

In an April 26, 2005 letter (DTSC 2005i), DTSC directed PG&E to submit a revised Section 5.0 of the monitoring plan (CH2M HILL 2005b) to include a plan for depth-specific surface water sampling in the Colorado River. A *Revised Sampling Plan and Standard Operating Procedure for Depth-Specific Surface Water Sampling* was submitted to DTSC on May 16, 2005 (CH2M HILL 2005d). DTSC provided conditional approval and comments on the revised Section 5.0 on June 30, 2005 (DTSC 2005e). The *Revised Sampling Plan and Standard Operating Procedure* (CH2M HILL 2005e) that incorporated DTSC comments was submitted on July 13, 2005. The depth-specific surface water sampling program was initiated in July 2005 with eight in-channel stations and continued from September 2005 through June 2006 with nine in-channel stations (CH2M HILL 2005f). To date, the in-channel surface water sampling has occurred quarterly during normal river stages and monthly during low river stages (November 2005 through January 2006). The surface water monitoring program was recently reevaluated, and revised surface water sampling frequencies will be put into effect beginning in November 2006 (DTSC 2006a).

1.5 Access Routes

On September 14, 2005, *A Review of Access Routes for Groundwater and Surface Water Monitoring Locations, and Proposed Mitigation Procedures* (CH2M HILL 2005g) was submitted to DTSC outlining access route requirements to be followed at all monitoring wells at the site throughout the year. The access procedures for affected wells on the floodplain during the Southwestern willow flycatcher nesting season (typically May through September) were revised in April 2006 (CH2M HILL 2006a). Havasu National Wildlife Refuge and the Bureau of Land Management approved the modifications to the summer procedures in May 2006. These revised access procedures for the floodplain wells were followed during the summer monitoring events conducted between May 1 and September 30, 2006. The access procedures from the September 14, 2005 document remains in effect for the other monitoring wells at the site.

1.6 Current GMP Monitoring Activity

Under the GMP, during the third quarter 2006 monitoring event, samples were collected from monitoring wells and surface water stations according to the following schedule:

- Ninety-two monitoring wells are sampled semiannually (twice a year).
- Seventy-eight monitoring wells (including one active water supply well), nine shoreline surface water stations, and nine in-channel surface water stations are sampled quarterly.
- Sixteen monitoring wells on the floodplain, two active extraction wells, nine shoreline surface water stations, and nine in-channel surface water stations (during low river stages) are sampled monthly.
- Four monitoring wells on the floodplain are sampled biweekly (every 2 weeks).
- Four inactive supply wells are sampled biennially (every 2 years).

Figure 2 shows the locations and sampling frequencies of the monitoring wells in the GMP as of the third quarter 2006 monitoring event, the location of the PG&E Topock Compressor Station, and other site features. Table 2 (provided at the end of the document) summarizes information on well construction and sampling methods for all wells in the GMP and other monitoring wells at the site. Figure 3 presents the locations of the shoreline and depth-specific surface water sampling locations as of October 2006.

2.0 Third Quarter 2006 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed during the third quarter 2006 reporting period and the specific groundwater and surface water analyses performed for the third quarter monitoring event. The quarterly monitoring event also fulfills the semiannual GMP sampling requirements. This quarterly/semiannual event will hereafter be referred to as the third quarter event.

2.1 Summary of Monitoring and Sampling

The third quarter 2006 monitoring event was conducted from October 2 through 13, 2006 and consisted of:

- Ninety-two groundwater monitoring wells and nine shoreline surface water stations (Figure 2) were sampled for analysis of Cr(VI), Cr(T), specific conductance, and pH. Three of these monitoring wells, MW-20-130, MW-16 and MW-24BR, were sampled during later biweekly events through November 1, 2006 due to the failure of dedicated pumps and other issues that prevented sampling during the third quarter event.
- Nine wells were sampled for analysis of the full list of CCR Title 22 metals, in accordance with the July 2004 SAP.
- Fourteen wells and two surface water locations were sampled for the analysis of IM performance monitoring parameters: total dissolved solids (TDS), oxygen 18, deuterium, chloride, sulfate, nitrate, bromide, alkalinity, calcium, magnesium, potassium, sodium, and boron.
- Nine in-channel surface water stations were sampled October 3 and 4, 2006 for analysis of Cr(VI), Cr(T), specific conductance, pH, hardness, TDS, and total suspended solids (TSS). All of the in-channel stations were sampled at three depths, except for station C-MAR, where two depths could not be sampled due to the shallow water column.
- Duplicate samples were collected at nine monitoring wells (MW-14, MW-20-70, MW-30-50, MW-35-135, MW-36-90, MW-39-60, MW-41M, MW-46-175, and OW-3M) to assess field sampling and analytical procedures.
- A sitewide groundwater level survey was performed on October 19, 2006 to generate a groundwater elevation contour map of the shallow-depth interval of the alluvial aquifer for the third quarter 2006.

The sampling procedures, field documentation of sampling, water level measurements, and field water quality monitoring were performed in accordance with the July 2004 SAP (CH2M HILL 2004a) and the *Sampling, Analysis, and Field Procedures Manual, Revision 1*, dated March 31, 2005 (CH2M HILL 2005h).

During the third quarter 2006 monitoring period, other monitoring events conducted in addition to the quarterly event were: three monthly sampling events (July, August, and

September) and three biweekly sampling events. The results of these other monitoring events have been issued in periodic data reports to DTSC during the reporting period.

The monitoring data presented in this report (Tables 3 through 9) include the results from all events in the third quarter 2006; however, only the data from the October 2006 quarterly event are discussed.

2.1.1 Site COC Analyses

All monitoring wells and surface water stations sampled during this event were analyzed 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 did not detect 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 6020A. Both methods have a reporting limit 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, nine monitoring wells (MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D) were sampled for the CCR Title 22 full list of metals. The Title 22 metals include antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. As required by DTSC (DTSC 2005a), the groundwater samples for CCR Title 22 dissolved metals analyses were field-filtered. The metals analyses were performed by Emax Laboratories in Torrance, California.

2.1.3 IM Performance Monitoring

During the October 2006 monitoring event, 14 selected monitoring wells and two surface water locations were sampled and analyzed for specific parameters to monitor the performance and effects of IM pumping on groundwater chemistry in the floodplain area (CH2M HILL 2004b; DTSC 2004c). These monitoring wells and surface water stations included: MW-20-70, MW-20-100, MW-20-130, MW-25, MW-26, MW-27-20, MW-28-25, MW-30-30, MW-30-50, MW-31-60, MW-32-20, MW-32-35, MW-34-55, MW-34-80, R-27, and R-28. The water samples were analyzed for:

- TDS (USEPA Method 160.1).
- Chloride, sulfate, nitrate and bromide (anions; USEPA Method 300.0).
- Dissolved calcium, magnesium, potassium, sodium, and boron (cations; Method SW 6010B or SW 6020A).
- Alkalinity (USEPA Method 310.1).
- Stable isotopes oxygen 18 and deuterium (CF-IRMS methods).

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

2.1.4 In-Channel Surface Water Analyses

Twenty-five depth-specific surface water samples were collected from the nine in-channel surface water stations. In addition to the site COCs, pH, and specific conductance, the depth-specific surface water samples were analyzed for:

- Hardness (USEPA Method 130.2).
- TDS (USEPA Method 160.1).
- TSS (USEPA Method 160.2).

Emax Laboratories performed the analyses for these parameters, pH, and specific conductance. Truesdail Laboratories performed the Cr(VI) and Cr(T) analyses for the in-channel samples.

3.0 Third Quarter 2006 Monitoring Results

This section summarizes the results of the groundwater and surface water sampling completed for the Topock GMP October 2006 quarterly monitoring event. Figure 2 shows the locations of the GMP monitoring wells. Figure 3 shows the locations of the shoreline and in-channel surface water monitoring stations in the Colorado River.

The monitoring results and data presented for the October 2006 quarterly event include site COCs, the IM performance monitoring parameters, CCR Title 22 metals, and additional in-channel surface water analytical parameters. Laboratory data quality review, water level measurements, and water quality field parameter data are also presented in this section. 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

Table 3 presents the results for chromium and other site COCs in groundwater samples collected during this quarterly event and prior events from the past year. In October 2006, the maximum detected Cr(VI) concentration was 11,600 µg/L at well MW-20-130. Overall, the October 2006 chromium results are consistent with the prior 2006 quarterly sampling results. Relative to May 2006 monitoring, increasing Cr(VI) concentrations were detected in the October samples at MW-47-55 (56.9 µg/L), MW-40D (104 µg/L), and deep well MW-50-200 (9,660 µg/L). Declining or stable concentration trends continue to be observed in the MW-31 and MW-39 well clusters. Monitoring well MW-34-100 has shown declining trends for Cr (VI) since June 2006. Prior sampling results are presented in Table 3.

3.1.2 Surface Water

Table 4 presents the results of chromium and other analytes in shoreline surface water samples collected during the October quarterly event and prior events from the last year. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine shoreline surface water stations during the third quarter.

Table 5 presents the results of chromium, other site COCs, TDS, TSS, and hardness analyses for the in-channel surface water sampling events performed from July 2005 through October 2006. Cr(VI) and Cr(T) were not detected in any of the water samples collected at the nine depth-specific surface water stations during the third quarter.

3.1.3 Hexavalent Chromium Results

Figures 4A through 4C present the Cr(VI) results for wells monitoring the upper, middle, and lower depth intervals of the Alluvial Aquifer, respectively, from the October quarterly sampling event. Figures 4A through 4C also show the approximate outline of the areas where Cr(VI) was detected in samples at concentrations greater than 50 µg/L (the California

drinking water standard for total chromium). The Cr(VI) results for the shoreline surface water sampling during the October event are shown on Figure 4A.

Overall, the approximate outlines of wells with Cr(VI) greater than 50 µg/L Cr(VI) in the shallow, middle, and lower depth intervals of the Alluvial Aquifer are similar to the previous quarterly monitoring event (CH2M HILL 2006b). In the upper depth interval (Figure 4A), the 50 µg/L Cr(VI) outline in the floodplain area north of the MW-20 bench has been shifted slightly to include the October sampling result for MW-47-55 (56.9 µg/L).

The concentration trend for MW-34-100 has shown both short-term declines and increasing concentrations since PE-1 pumping commenced. However, since June 2006, concentrations at this well have started to trend downwards (see Table 3). Declining or stable concentration trends continue to be observed in the MW-31 and MW-39 well clusters, which is likely a response to IM pumping from TW-3D. Declining Cr(VI) trends during 2006 monitoring are also observed at interior monitoring wells MW-25 and MW-38D. The effects of PE-1 pumping are evident in the sampling data from wells MW-36-90 and MW-36-100 (Table 3). Since the initiation of PE-1 pumping, the Cr(VI) concentrations at MW-36-90 have consistently decreased, while concentrations have increased in the deeper well MW-36-100. Refer to the third quarter 2006 IM Performance Monitoring report (CH2M HILL 2006d) for discussion of groundwater quality data trends for the floodplain area.

During October 2006 sampling, the Cr(VI) concentration in the groundwater sample from the water supply well at Park Moabi was 2.0 µg/L, which is slightly lower than prior results (Table 3).

3.2 Additional Analytes Results

3.2.1 IM Performance Monitoring

Table 6 presents the results of the general chemistry and stable isotope analyses for the 14 monitoring wells and two surface-water stations in the IM performance monitoring area from March 2004 through October 2006. The general chemistry and stable isotope data collected under the GMP are used to assess water quality conditions and data trends in the IM performance monitoring floodplain area.

3.2.2 CCR Title 22 Metals

Table 7 presents the CCR Title 22 metal results for the GMP monitoring wells sampled from September 2004 through October 2006. In addition to Cr(T), the trace metals detected in the October 2006 groundwater sampling event were arsenic, barium, cobalt, copper, molybdenum, nickel, selenium, vanadium, and zinc. Excluding Cr(T) and arsenic, the dissolved concentrations of the trace metals detected during the October 2006 monitoring event are below the respective California drinking water standards.

3.3 Analytical Data Quality Review

The laboratory analytical data generated from the October 2006 quarterly monitoring event were independently reviewed by project chemists to assess data quality and to identify deviations from analytical requirements. The quality assurance and quality control

(QA/QC) requirements are outlined in the Quality Assurance Project Plan (QAPP) for the PG&E Topock Program, which is Appendix D of the *Sampling, Analysis, and Field Procedures Manual, Revision 1* (CH2M HILL 2005h). A detailed discussion of data quality for the 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 with the exception of pH (see Holding Time Data Qualification). No significant analytical deficiencies were identified in the October 2006 quarterly monitoring data. With minor exceptions (noted below), the analyses and data quality met the laboratory method quality control acceptance criteria. Overall, the analytical data for the October 2006 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 25 wells reflect adjusted reporting limits (Table 3) as a result of serial dilutions that were required to overcome the matrix interference and provide acceptable matrix spike recoveries.

Quantitation and Sensitivity: All method and analyte combinations met the project reporting limit objectives, with the exception of the matrix interference issue explained above.

Holding Time Data Qualification: All method holding time requirements were met, with the following exceptions: four specific conductance samples (Table 3), twenty one pH samples (Table 3), and three TDS samples (Table 6) which were analyzed outside of the recommended holding times due to laboratory equipment issues that required re-analyses of the samples. The sample results were qualified as estimated (J flagged) or rejected (R flagged). The laboratory has taken corrective measures to avoid similar issues in the future.

Method Blanks: All method blank criteria were met.

Field Blanks: All field blank criteria were met, with the following exception: one equipment blank was outside acceptance criteria and the associated sample results were qualified as estimated (J flagged).

Calibration: All initial and continuing instrument calibration criteria were met.

Matrix Spike Sample: All matrix spike acceptance criteria were met, with the following exceptions: the potassium analyses for MW-20-100 and R-27 were outside acceptance criteria and the results were qualified as estimated (J flagged).

Chain of Custody: Each sample was documented in a completed chain of custody and received at the laboratory in good condition. All discrepancies identified in laboratory custody were promptly resolved.

Field Duplicates: All field duplicate acceptance criteria were met, with the following exception: the total chromium analyses for OW-3M and its field duplicate were outside acceptance criteria and the results were qualified as estimated (J flagged).

Laboratory Control and Duplicate Samples: All laboratory duplicate criteria were met. All laboratory control sample criteria were met with the following exception: the laboratory control samples associated with potassium analyses for MW-31-60, R-27, and R-28 were outside acceptance criteria, and the results were qualified as estimated (J flagged).

Miscellaneous: The TDS result for MW-32-20 was outside the historical range or statistically derived results and the result was qualified as estimated (J flagged).

3.4 Water Level Monitoring

Table 8 presents the water level measurements and groundwater and surface water elevations from the October 2006 monitoring event and prior events in the past year. Table 8 also lists salinity data for the wells where water levels were measured. Groundwater salinity during this monitoring event ranged from 0.07 percent (MW-27-20 and MW-28-25) to 3.65 percent (well MW-30-30)—a range that is consistent with results of prior monitoring. Due to the variation in groundwater salinity at the site, the groundwater elevations measured in the monitoring wells have been adjusted (normalized) to an equivalent freshwater head (Fetter, 1994).

Since March 2004, a network of pressure transducers has been used to collect continuous records of water elevation data in the Alluvial Aquifer (floodplain and IM No. 3 injection areas) and the Colorado River for the analysis and assessment of hydraulic data. This network currently includes over 80 transducers. This monitoring is ongoing and is being reported as part of the IM activities. The groundwater elevation data and hydraulic gradients measured in the floodplain area are evaluated monthly and presented in the IM performance monitoring reports (CH2M HILL 2006c, d).

Beginning in June 2005 at DTSC's direction (DTSC 2005i), a sitewide water level data set has been collected quarterly to construct a groundwater elevation contour map for the shallow, upper depth interval of the Alluvial Aquifer. During the third quarter event, a sitewide water level survey was conducted on October 19, 2006. This survey involved the manual collection of groundwater level data at 32 shallow wells within a 4-hour period. Figure 5 presents the groundwater elevation contours for the upper depth interval of the Alluvial Aquifer (shallow monitoring wells). Water level contours for the floodplain are not shown in the figure and are available in the IM performance monitoring reports (CH2M HILL 2006c, d). Groundwater elevations from pressure transducers in selected wells were used to prepare the groundwater elevation map. Because groundwater levels at the site fluctuate continuously in response to changes in the river stage, these groundwater elevation contours reflect transient conditions at the time of measurement and may not be representative of the average groundwater flow directions.

3.5 Field Parameter Data

A field water quality meter and flow-through cell were used to measure parameters during well purging and groundwater sampling (CH2M HILL 2004a, 2005b). Water quality field measurements were also recorded during surface water sampling. Table 9 summarizes the field water quality data collected (specific conductance, temperature, pH, oxidation-reduction potential, and dissolved oxygen) during the October 2006 quarterly

event and prior monitoring events. Field data sheets and chain of custody records for the October quarterly event are presented in Appendix A.

4.0 Status of Monitoring Activities

This section presents the scope and status of ongoing and future monitoring activities scheduled for the Topock GMP.

Table 10 summarizes the DTSC-directed changes to the GMP sampling frequency that are effective for monitoring events to be conducted after October 2006. On October 26, 2006, DTSC issued a letter revising the monitoring frequencies for the GMP and the shoreline surface water stations (DTSC 2006a). The new sampling frequencies for the monitoring wells are detailed below in Table 10. The shoreline surface water sampling frequency was decreased to be the consistent with the in-channel depth-specific surface water sampling frequency (events conducted quarterly, as well as monthly during low river stages). The new GMP sampling frequency took effect beginning with the first sampling event in November 2006.

TABLE 10
Topock GMP Monitoring Frequency Changes After October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Direction	Date	DTSC Approval	New Frequency & Wells
Modification of groundwater and shoreline surface water sampling frequencies	10/26/06	DTSC 2006a	Biweekly: MW-34-100 Monthly: MW-27-85, MW-34-80, MW-36-90, MW-36-100, MW-39-80, MW-39-100, MW-44-115, MW-44-125, MW-46-175 Quarterly: MW-10, MW-12, MW-19, MW-20-70, MW-20-100, MW-20-130, MW-21, MW-23, MW-24A, MW-24B, MW-24BR, MW-28-90, MW-32-20, MW-32-35, MW-33-40, MW-33-90, MW-33-150, MW-33-210, MW-36-70, MW-37D, MW-39-40, MW-39-70, MW-40D, MW-42-55, MW-42-65, MW-43-75, MW-43-90, MW-44-70, MW-46-205, MW-47-55, MW-47-115, MW-48, MW-49-135, MW-49-275, MW-49-365, MW-50-95, MW-50-200, MW-51 Quarterly (monthly during low river): CON, I-3, NR-1, NR-2, NR-3, R-22, R-27, R-28, RRB Semiannually: MW-13, MW-14, MW-18, MW-22, MW-25, MW-26, MW-31-60, MW-31-135, MW-35-60, MW-35-135, MW-37S, MW-41S, MW-41M, MW-41D, MW-42-30, MW-43-25, OW-3S, OW-3M, OW-3D, TW-4 Annually: MW-9, MW-11, MW-27-20, MW-27-60, MW-28-25, MW-29, MW-34-55, MW-36-20, MW-36-40, MW-36-50, MW-38S, MW-38D, MW-39-50, MW-39-60, MW-40S, TW-2S, TW-2D, TW-5 Biennially: MW-15, MW-16, MW-17, MW-30-30, TW-1, PGE-7, PGE-8, Park Moabi

Table includes monitoring frequency change directives in effect for events to be conducted after October 2006.

4.1 Quarterly Monitoring – Fourth Quarter 2006 Event

The fourth quarter 2006 monitoring event is scheduled to be conducted in December 2006. This quarterly event will include 48 monitoring wells as per DTSC's October 26, 2006 letter (DTSC 2006a). The groundwater and surface water monitoring report for the fourth quarter 2006 GMP event will be submitted approximately 10 to 12 weeks after sampling completion.

4.2 Monthly Monitoring

The next GMP monthly monitoring event will be conducted during November 2006. Monthly GMP monitoring events now include ten monitoring wells, not including the two active extraction wells PE-1 and TW-3D that are routinely sampled for IM No. 3 compliance reporting (DTSC 2006a). The sampling results of the IM extraction wells and floodplain wells that are monitored on monthly and biweekly schedules are presented monthly in the IM performance monitoring reports (CH2M HILL 2006c, d).

4.3 Biweekly Well Sampling

Biweekly sampling of floodplain well MW-34-100 will continue through the fourth quarter 2006 as per DTSC's October 2006 letter (DTSC 2006a).

5.0 References

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Tables

TABLE 2
Well Construction and Sampling Summary, October 2006
PG&E Topock Groundwater and Surface Water 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	89.4	80.0	CD pump	3	11	
MW-10	Bat Cave Wash	530.65	74 - 94	4 in PVC	96.9	75.1	CD pump	5	40	
MW-11	Bat Cave Wash	522.61	62.5 - 82.5	4 in PVC	86.1	66.8	CD pump	5	30	
MW-12	East of Station	484.01	27.5 - 47.5	4 in PVC	50.4	29.5	Temp. pump	3	40	
MW-13	Bat Cave Wash	488.64	28.5 - 48.5	4 in PVC	52.0	33.0	CD pump	4	30	
MW-14	East Mesa	570.99	111 - 131	4 in PVC	133.8	114.8	CD pump	4	30	
MW-15	East of New Ponds	641.52	180.5 - 200.5	4 in PVC	203.0	184.6	CD pump	5	30	
MW-16	Near New Ponds	657.31	198 - 218	4 in PVC	218.1	200.1	Temp. pump	7	35	
MW-17	West of Mesa Area	589.96	130 - 150	4 in PVC	153.6	132.6	CD pump	5	32	
MW-18	West Mesa	545.32	85 - 105	4 in PVC	106.7	88.7	Temp. pump	5	30	
MW-19	Route 66	499.92	46 - 66	4 in PVC	65.8	45.8	CD pump	7	41	
MW-20-070	MW-20 bench	500.15	50 - 70	4 in PVC	69.6	47.1	CD pump	10	53	
MW-20-100	MW-20 bench	500.58	89.5 - 99.5	4 in PVC	101.4	48.0	CD pump	10	110	
MW-20-130	MW-20 bench	500.66	121 - 131	4 in PVC	132.3	48.6	Temp. pump	10	180	
MW-21	Route 66	505.55	39 - 59	4 in PVC	58.5	51.1	Temp. pump	10	10	low recharge well; purges dry at 1 casing volume
MW-22	Floodplain	460.72	5.5 - 10.5	2 in PVC	12.4	6.2	Peristaltic	0.2	4	
MW-23	East of Station	507.33	60 - 80	4 in PVC	81.4	53.3	CD Pump	5	20	low recharge well; purges dry at 1 casing volume
MW-24A	MW-24 Bench	567.16	104 - 124	4 in PVC	127.5	111.8	CD pump	3	30	
MW-24B	MW-24 Bench	564.76	193 - 213	4 in PVC	214.8	109.6	CD pump	7	210	
MW-24BR	MW-24 Bench	563.95	378 - 437	4 in PVC	441.0	108.3	Temp. 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	106.5	87.6	CD pump	5	32	
MW-26	Route 66	502.22	51.5 - 71.5	2 in PVC	70.1	47.2	CD pump	7	50	
MW-27-020	Floodplain	460.56	7 - 17	2 in PVC	14.4	5.6	Temp. pump	1	7	
MW-27-060	Floodplain	461.38	47.3 - 57.3	2 in PVC	59.0	6.6	Temp. pump	2	25	
MW-27-085	Floodplain	460.99	77.5 - 87.5	2 in PVC	80.0	6.6	Ded. Redi-Flo AR	2	36	
MW-28-025	Floodplain	466.85	13 - 23	2 in PVC	21.1	12.4	Ded. Redi-Flo AR	1	5	
MW-28-090	Floodplain	467.51	70 - 90	2 in PVC	98.4	14.0	Temp. pump	2	50	
MW-29	Floodplain	485.21	29.5 - 39.5	2 in PVC	41.5	30.3	Temp. pump	0.5	6	
MW-30-030	Floodplain	468.12	12 - 32	2 in PVC	26.9	14.1	Ded. Redi-Flo AR	1	10	
MW-30-050	Floodplain	468.81	40 - 50	4 in PVC	52.6	14.4	Ded. Redi-Flo AR	2	75	
MW-31-060	MW-20 Bench	496.81	41.5 - 61.5	4 in PVC	64.0	42.2	CD pump	10	40	
MW-31-135	MW-20 Bench	498.11	113 - 133	2 in PVC	135.4	44.4	Redi-Flo AR	3	60	
MW-32-020	Floodplain	461.51	10 - 20	2 in PVC	19.6	8.0	Ded. Redi-Flo AR	1.5	6	

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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	37.2	7.6	Ded. Redi-Flo AR	2	60	
MW-33-040	Floodplain	487.38	29 - 39	4 in PVC	41.8	33.4	Temp. pump	0.5	4	
MW-33-090	Floodplain	487.55	69 - 89	4 in PVC	88.3	33.8	Temp. pump	2	110	
MW-33-150	Floodplain	487.77	132 - 152	2 in PVC	155.0	34.2	Temp. pump	3	60	
MW-33-210	Floodplain	487.25	190 - 210	2 in PVC	223.0	33.4	Ded. Redi-Flo AR	3	90	
MW-34-055	Floodplain	460.94	45 - 55	4 in PVC	56.6	6.0	Ded. Redi-Flo AR	2	100	
MW-34-080	Floodplain	461.20	73 - 83	4 in PVC	84.3	7.0	Ded. Redi-Flo AR	3	150	
MW-34-100	Floodplain	460.96	89.5 - 99.5	2 in PVC	117.0	7.5	Ded. Redi-Flo AR	2	55	
MW-35-060	Route 66	484.19	41 - 61	2 in PVC	56.8	29.2	Temp. pump	2	18	
MW-35-135	Route 66	483.57	116 - 136	2 in PVC	158.7	29.0	Temp. pump	3	66	
MW-36-020	Floodplain	469.26	10 - 20	1 in PVC	22.7	14.7	Peristaltic	0.5	4	
MW-36-040	Floodplain	469.61	30 - 40	1 in PVC	42.8	15.5	Peristaltic	0.5	4	
MW-36-050	Floodplain	469.60	46 - 51	1 in PVC	53.3	14.8	Peristaltic	0.75	5	
MW-36-070	Floodplain	469.25	60 - 70	1 in PVC	72.5	16.0	Peristaltic	0.5	7	
MW-36-090	Floodplain	469.61	80 - 90	1 in PVC	92.5	16.1	Peristaltic	0.4	10	
MW-36-100	Floodplain	469.64	88 - 98	2 in PVC	110.2	16.2	Ded. Redi-Flo AR	2	45	
MW-37D	Bat Cave Wash	486.19	180 - 200	2 in PVC	226.7	31.9	Temp. pump	3	100	
MW-37S	Bat Cave Wash	485.97	64 - 84	2 in PVC	87.0	38.2	Temp. pump	2	30	
MW-38D	Bat Cave Wash	525.31	163 - 183	2 in PVC	190.9	70.1	Temp. pump	3	60	
MW-38S	Bat Cave Wash	525.51	75 - 95	2 in PVC	98.1	70.0	Temp. pump	1	13	
MW-39-040	Floodplain	468.02	30 - 40	1 in PVC	42.1	14.6	Peristaltic	0.5	3.5	
MW-39-050	Floodplain	467.93	47 - 52	1 in PVC	54.6	13.8	Peristaltic	0.5	5	
MW-39-060	Floodplain	468.00	49 - 59	1 in PVC	66.3	14.0	Peristaltic	0.5	6	
MW-39-070	Floodplain	468.02	60 - 70	1 in PVC	71.7	14.4	Peristaltic	0.5	7	
MW-39-080	Floodplain	467.92	70 - 80	1 in PVC	82.6	14.4	Peristaltic	0.5	9	
MW-39-100	Floodplain	468.01	80 - 100	2 in PVC	117.7	15.1	Ded. Redi-Flo AR	2	45	
MW-40D	I-40 Median	566.08	240 - 260	2 in PVC	266.0	111.4	Temp. pump	3	75	
MW-40S	I-40 Median	566.04	115 - 135	2 in PVC	134.0	110.0	Temp. pump	2	13	
MW-41D	Bat Cave Wash	479.42	271 - 291	2 in PVC	313.0	24.2	Temp. pump	3	145	
MW-41M	Bat Cave Wash	479.83	170 - 190	2 in PVC	192.4	24.1	Temp. pump	3	85	
MW-41S	Bat Cave Wash	480.07	40 - 60	2 in PVC	61.6	28.5	Temp. pump	2	42	
MW-42-030	Floodplain	463.81	9.8 - 29.8	2 in PVC	32.0	9.5	Temp. pump	2	28	
MW-42-055	Floodplain	463.87	42.5 - 52.5	2 in PVC	56.0	10.4	Temp. pump	3	21	

TABLE 2
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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	10.0	Temp. pump	3	36	
MW-43-025	Floodplain	462.54	15 - 25	2 in PVC	27.0	7.7	Temp. pump	1	9	
MW-43-075	Floodplain	462.71	65 - 75	2 in PVC	77.0	8.4	Ded. Redi-Flo AR	2	28	
MW-43-090	Floodplain	462.76	80 - 90	2 in PVC	102.0	8.7	Ded. Redi-Flo AR	2	47	
MW-44-070	Floodplain	471.90	61 - 71	2 in PVC	70.0	18.3	Temp pump	1.5	38	
MW-44-115	Floodplain	472.01	103 - 113	2 in PVC	113.5	18.6	Ded. Redi-Flo AR	3	60	
MW-44-125	Floodplain	472.04	116 - 125	2 in PVC	128.8	18.4	Temp pump	0.35	57	
MW-46-175	Floodplain	482.16	165 - 175	2 in PVC	181.8	28.9	Ded. Redi-Flo AR	1.5	100	
MW-46-205	Floodplain	482.23	196.5 - 206.5	2 in PVC	224.7	29.1	Temp pump	2	90	
MW-47-055	Floodplain	483.87	45 - 55	2 in PVC	55.0	29.6	Temp pump	2	30	
MW-47-115	Floodplain	484.06	105 - 115	2 in PVC	115.0	30.0	Temp pump	1.5	55	
MW-48	East of Station	486.22	124 - 134	2 in PVC	138.0	31.9	Temp pump	0.5	22	low recharge well; purges dry at 1 casing volume
MW-49-135	Floodplain	484.02	125 - 135	1.5 in PVC	136.6	30.0	Temp pump	0.6	30	
MW-49-275	Floodplain	483.95	255 - 275	2 in PVC	274.7	31.0	Temp pump	3	126	
MW-49-365	Floodplain	484.01	345 - 365	2 in PVC	367.4	32.6	Temp pump	2	180	
MW-50-095	Route 66	496.55	85 - 95	2 in PVC	96.4	42.3	Temp pump	2	36	
MW-50-200	Route 66	496.48	190 - 200	2 in PVC	204.5	42.8	Temp pump	3	85	
MW-51	Route 66	501.56	97 - 112	4 in PVC	113.3	47.6	Temp pump	2	180	
OW-03D	West Mesa	558.63	242 - 262	2 in PVC	274.0	101.7	Temp. pump	3	90	
OW-03M	West Mesa	558.89	180 - 200	2 in PVC	202.0	102.1	Temp. pump	3	54	
OW-03S	West Mesa	558.58	86 - 116	2 in PVC	118.0	101.9	Temp. pump	2	30	
Other Site Wells not in GMP										
MW-01	New Ponds	661.76	201 - 211	4 in PVC	217.0	206.5	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-03	New Ponds	650.51	193 - 203	4 in PVC	205.0	193.8	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-04	New Ponds	625.73	164.5 - 174.5	4 in PVC	176.3	169.4	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-05	New Ponds	635.69	175.9 - 184.9	4 in PVC	186.2	179.0	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-06	New Ponds	642.84	184.5 - 193.5	4 in PVC	194.9	186.0	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-07	New Ponds	631.91	172.7 - 182.7	4 in PVC	185.0	175.9	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-08	New Ponds	627.54	169 - 178	4 in PVC	179.9	170.9	Ded. Redi-Flo AR	NA	NA	active PG&E pond monitoring well
MW-45-095a	Floodplain	470.03	83 - 93	2 in PVC	97.0	15.9	Temp pump	1	40	pressure transducer location
MW-45-095b	Floodplain	469.51	83 - 93	1 in PVC	97.0	17.9	Temp pump	NA	9	groundwater sampling location
MWP-08	Old Ponds	677.48	181 - 211	3 in PVC	213.0	189.5	---	NA	NA	inactive monitoring well
MWP-10	Old Ponds	675.81	194 - 234	3 in PVC	237.0	208.6	---	NA	NA	inactive monitoring well

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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
Other Site Wells not in GMP										
MWP-12	Old Ponds	663.49	96 - 136	3 in PVC	143.0	107.8	---	NA	NA	inactive monitoring well
P-2	New Ponds	537.60	238.5 - 248.5	4 in PVC	251.0	169.8	---	NA	NA	inactive monitoring well
PGE-09N	East of River	462.21	25 - 95	12 in Steel	---	---	---	NA	NA	
PGE-09S	East of River	461.99	30 - 100	12 in Steel	---	---	---	NA	NA	
Test and Extraction Wells										
IW-02	East Mesa	550.11	170 - 330	6 in Steel	343.0	95.8	---	NA	NA	IM3 injection well
IW-03	East Mesa	554.44	160 - 320	6 in Steel	333.0	100.1	---	NA	NA	IM3 injection well
PE-01	Floodplain	457.52	79 - 89	6 in Steel	97.0	16.4	CD pump	3	400	
TW-01	Plan B Test	620.55	169 - 269	5 in PVC	240.2	164.5	CD pump	20	200	inactive pilot test well
TW-02D	MW-20 bench	493.29	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	102.1	46.4	CD pump	6	75	active IM extraction well
TW-03D	MW-20 bench	---	111 - 156	8 in PVC	157.0	46.5	CD pump	NA	NA	IM extraction well. 6" screen diameter
TW-04	Floodplain	484.11	210 - 250	4 in PVC	255.0	29.4	Temp pump	NA	NA	
TW-05	Route 66	496.30	110 - 150	4 in PVC	152.5	41.3	Temp pump	3	150	
Water Supply Wells										
PGE-06	MW-24 Bench	563.32	110 - 180	14 in Steel	181.0	107.3	CD pump	24	650	inactive supply
PGE-07	MW-24 Bench	563.89	195 - 330	14 in Steel	332.0	108.1	CD pump	12	600	inactive supply
PGE-08	Station	596.01	405 - 554	6.75 in Steel	564.0	140.8	CD pump	20	1900	inactive injection
PM-03	Park Moabi	518.55	80 - 200	8 in Steel	252.0	61.3	active supply well	NA	NA	call Park Ranger to schedule sampling

NOTES:

BGS	below ground surface
MSL	mean sea level
BTOC	below top of casing
NA	not known or available
CD pump	dedicated constant-discharge electric submersible pump
Redi-Flo AR	adjustable-rate electric submersible pump
Temp pump	temporary pump
PVC	polyvinyl chloride casing
Ded	dedicated

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

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

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-9	03-Oct-05		309	287	2,740	7.50
	07-Mar-06		298	291	2,650	7.60
	07-Mar-06	FD	301	295	2,630	7.62
	12-Oct-06		308	306	2,820	7.24
MW-10	03-Oct-05		4570	4900	1,690	7.74
	06-Mar-06		2070	2120	2,730	7.56
	12-Oct-06		2510	2480	2,350	7.52
MW-11	03-Oct-05		649	617	2,330	7.33
	06-Mar-06		323	306	2,360	7.47
	12-Oct-06		325	339	2,320	7.39
MW-12	16-Sep-05		698	618	3,630	8.64
	04-Oct-05		660	644	2,980	8.70
	04-Oct-05	FD	670	613	2,970	8.70
	13-Dec-05		626	602	2,930	8.41
	18-Apr-06		1210	1300	3,450	8.19
	01-May-06		1250	1280	3,520	8.52
	04-Oct-06		1740	1790	4,590	7.92
MW-13	04-Oct-05		20.3	24.5	1,770	7.08
	13-Dec-05		21.4	20.0	1,740	7.51
	13-Dec-05	FD	21.5	22.1	1,750	7.52
	08-Mar-06		21.8	18.9	1,820	7.60
	08-Mar-06	FD	21.8	19.1	1,800	7.53
	02-May-06		21.4	19.2	1,760	7.67
	02-May-06	FD	21.2	20.5	1,750	7.79
	02-Oct-06		24.6	21.4	1,860	7.80
MW-14	06-Oct-05		35.4	34.8	1,430	7.71
	15-Dec-05		31.7	30.0	1,440	7.24
	09-Mar-06		32.5	29.1	1,420	7.56
	02-May-06		32.6	27.6	1,440	7.88
	02-Oct-06		31.2	27.0	1,430	7.88
	02-Oct-06	FD	32.6	28.9	1,440	7.84
MW-15	06-Oct-05		7.60	14.0 J	1,410	7.75
	07-Mar-06		15.2	13.8	1,790	7.75
	05-Oct-06		12.1	11.4	1,430	7.93 R
MW-16	06-Oct-05		4.10	21.8 J	1,020	7.97
	07-Mar-06		9.00	7.70	1,050	7.86
	01-Nov-06		7.00	6.30	1,090	8.04
MW-17	05-Oct-05		13.6	11.7	1,670	7.63
	09-Mar-06		16.6	14.7	1,710	7.60
	02-Oct-06		11.9	11.9	1,780	7.69
MW-18	06-Oct-05		34.7 J	29.9	1,210	7.68
	09-Mar-06		37.6	31.0	1,140	7.45
	09-Mar-06	FD	38.1	32.3	1,130	7.50
	04-Oct-06		33.5	29.1	1,250	7.46

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-19	04-Oct-05		1060	996	1,970	7.65
	12-Dec-05		1240	1270	2,040	7.52
	09-Mar-06		1090	1080	2,080	7.50
	02-May-06		1130	1120	2,150	7.74
	02-Oct-06		970	1300	2,230	7.86
MW-20-70	11-Oct-05		6060	5930	2,950	7.49
	15-Dec-05		4640	4310	2,850	7.72
	10-Mar-06		5170	4510	2,870	7.61
	05-May-06		4100	4440	2,860	7.75
	03-Oct-06		3290	3390	2,840	7.32
	03-Oct-06	FD	3410	3330	2,790	7.38
MW-20-100	11-Oct-05		10200	9430	3,600	7.57
	15-Dec-05		9460	9010	3,550	7.68
	10-Mar-06		10100	10200	3,690	7.61
	05-May-06		10400	12100	3,610	7.65
	03-Oct-06		9520	10300	3,570	7.28
MW-20-130	07-Oct-05		9590	10700	12,000	7.71
	16-Dec-05		10500	9340	13,000	7.53
	10-Mar-06		10700	10600	13,600	7.62
	05-May-06		12000	13700	14,200	7.71
	18-Oct-06		11600	16400	17,000	7.61 R
MW-21	05-Oct-05		ND (1.0) J	ND (1.0) J	13,400	7.03
	14-Dec-05		ND (1.0)	ND (1.0)	8,960	7.08
	02-May-06		ND (1.0)	ND (1.0)	14,300	7.28
	03-Oct-06		ND (1.0)	ND (1.0)	16,500	7.27
MW-22	04-Oct-05		ND (2.0)	ND (1.0) J	44,600	6.88
	16-Dec-05		ND (2.0)	ND (1.0)	34,500	6.89
	15-Mar-06		ND (2.0)	ND (1.0)	36,300	7.25
	03-May-06		ND (1.0) J	ND (1.0)	33,400	6.97
	13-Oct-06		ND (1.0)	ND (1.0)	40,300	6.84
MW-23	04-Oct-05		ND (1.0)	ND (1.0)	19,100	7.18
	14-Dec-05		8.80	10.5	16,400	7.17
	08-Mar-06		11.9	ND (1.0)	18,800	7.27
	02-May-06		16.8	18.2	19,500	7.38
	04-Oct-06		15.2	14.4	19,300	7.07
MW-24A	03-Oct-05		3120	2930	3,200	7.63
	03-Oct-05	FD	3040	2630	3,190	7.61
	06-Mar-06		3490	3980	3,100	7.62
	03-Oct-06		4300	4260	3,170	7.66
MW-24B	03-Oct-05		5240	4930	14,900	7.84
	07-Mar-06		5650	5970	15,400	7.92
	03-Oct-06		6120	5830	17,100	7.69
MW-24BR	15-Dec-05		ND (1.0)	ND (1.0)	13,600	8.34
	16-Mar-06		ND (1.0)	1.20	15,600	7.92

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-24BR	10-May-06		1.00 R	ND (1.0)	15,200	8.06
	05-Jun-06		ND (1.0)	---	---	---
	01-Nov-06		ND (1.0)	ND (1.0)	16,700	7.98
MW-25	04-Oct-05		1540	1470	1,390	7.63
	04-Oct-05	FD	1540	1480	1,190	7.61
	14-Dec-05		1460	1370	1,360	7.39
	14-Dec-05	FD	1450	1350	1,350	7.41
	09-Mar-06		1360	1430	1,400	7.43
	03-May-06		1390	1300	1,400	7.79
	03-May-06	FD	1280	1310	1,420	7.68
	03-Oct-06		1140	1150	1,400	7.24
MW-26	04-Oct-05		3040	2990	3,120	7.60
	12-Dec-05		3220	3160	3,850	7.43
	08-Mar-06		3280	3020	3,300	7.54
	01-May-06		3210	3110	3,350	7.66
	03-Oct-06		3590	3850	3,600	7.52
MW-27-20	05-Oct-05		ND (0.21)	ND (1.0)	1,040	7.56
	14-Dec-05		ND (0.2)	ND (1.0)	1,340	7.42
	06-Mar-06		ND (0.2)	ND (1.0)	998	7.66
	01-May-06		ND (0.2)	ND (1.0)	1,490	7.72
	03-Oct-06		ND (0.2)	ND (1.0)	1,090	7.90 R
MW-27-60	05-Oct-05		ND (1.0)	ND (1.0)	13,900	7.18
	15-Dec-05		ND (1.0)	ND (1.0)	13,700	7.28
	07-Mar-06		ND (1.0)	ND (1.0)	13,600	7.39
	01-May-06		ND (1.0)	ND (1.0)	12,800	7.58
	03-Oct-06		ND (1.0)	ND (1.0)	9700 J	7.23
MW-27-85	08-Sep-05		ND (1.0)	ND (1.0)	---	---
	05-Oct-05		ND (1.0)	ND (1.0)	19,800	7.12
	03-Nov-05		ND (2.0) J	ND (1.0)	---	---
	15-Dec-05		1.20 J	6.60	17,500	7.29
	12-Jan-06		ND (1.0)	ND (1.0)	---	---
	08-Feb-06		ND (1.0)	ND (1.0)	---	---
	06-Mar-06		ND (1.0)	ND (1.0)	20,600	7.23
	03-Apr-06		ND (1.0)	ND (1.0)	---	---
	01-May-06		ND (1.0)	ND (1.0)	17,200	7.56
	14-Jun-06		ND (1.0)	ND (1.0)	---	---
	12-Jul-06		ND (2.0)	ND (1.0)	---	---
	08-Aug-06		ND (1.0)	ND (1.0)	---	---
	06-Sep-06		ND (1.0)	ND (1.0)	---	---
	13-Oct-06		ND (1.0)	ND (1.0)	21,600	7.16
MW-28-25	06-Oct-05		ND (0.2)	ND (1.0)	1,210	7.36
	16-Dec-05		ND (0.2)	ND (1.0)	1,430	7.28
	09-Mar-06		ND (0.2)	ND (1.0)	1,040	7.42
	05-May-06		ND (0.2)	ND (1.0)	1,170	7.55
	11-Oct-06		ND (0.2)	ND (1.0)	1,340	7.27

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-28-90	09-Sep-05		ND (1.0)	ND (1.0)	---	---
	06-Oct-05		ND (1.0)	ND (1.0)	8,230	7.80
	02-Nov-05		ND (1.0)	ND (1.0)	---	---
	16-Dec-05		ND (1.0)	ND (1.0)	8,400	7.57
	10-Jan-06		ND (1.0)	ND (1.0)	---	---
	09-Feb-06		ND (0.2) J	ND (1.0)	---	---
	06-Mar-06		ND (1.0)	ND (1.0)	8,970	7.66
	06-Apr-06		ND (1.0)	ND (1.0)	---	---
	05-May-06		ND (1.0)	ND (1.0)	7,680	7.68
	15-Jun-06		ND (1.0)	ND (1.0)	---	---
	13-Jul-06		ND (1.0) J	ND (1.0)	---	---
	11-Aug-06		ND (0.2)	ND (1.0)	---	---
	08-Sep-06		ND (0.2)	ND (1.0)	---	---
	13-Oct-06		ND (0.2)	ND (1.0)	8,510	7.56
MW-29	04-Oct-05		ND (0.2)	ND (1.0)	4,620	7.37
	12-Dec-05		ND (0.2)	ND (1.0)	5,620	7.38
	13-Apr-06		ND (0.2)	ND (1.0)	3,340	7.74
	05-May-06		ND (0.2)	ND (1.0)	2,430	7.57
	13-Oct-06		ND (0.2)	ND (1.0)	4,300	7.39
MW-30-30	07-Oct-05		ND (0.2)	ND (1.0)	57,100	7.09
	15-Dec-05		ND (5.0)	ND (1.0)	61,500	7.05
	13-Mar-06		ND (5.0)	ND (1.0)	65,300	7.04
	02-May-06		ND (2.0)	ND (1.0)	53,300	7.10
	10-Oct-06		ND (2.0)	ND (1.0)	49,300	7.04
MW-30-50	07-Oct-05		ND (1.0)	ND (1.0)	9,340	7.40
	16-Dec-05		ND (1.0)	ND (1.0)	10,200	7.38
	09-Mar-06		ND (1.0)	ND (1.0)	9,650	7.34
	02-May-06		ND (1.0)	ND (1.0)	9,500	7.52
	11-Oct-06		ND (0.2)	ND (1.0)	6,100	7.13
	11-Oct-06	FD	ND (0.2)	ND (1.0)	6,210	7.16
MW-31-60	06-Oct-05		1430	1470	2,600	7.80
	13-Dec-05		1300	1250	2,570	7.60
	15-Mar-06		1020	1010	2,580	7.62
	15-Mar-06	FD	1000	1010	2,560	7.64
	01-May-06		952	959	2,590	7.80
	05-Oct-06		773	849	2,440	7.60
MW-31-135	06-Oct-05		271	251	9,400	7.98
	14-Dec-05		221	198	9,240	7.62
	15-Mar-06		173	186	11,000	7.91
	09-May-06		154	146 LF	9,830	8.07
	05-Oct-06		85.7	81.7	9,370	7.59
MW-32-20	04-Oct-05		ND (2.0)	ND (1.0) J	44,100	6.90
	16-Dec-05		ND (2.0)	ND (1.0)	39,400	6.86
	10-Mar-06		ND (2.0)	ND (1.0)	36,500	6.92
	04-May-06		ND (1.0)	ND (1.0)	27,900	6.83

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-32-20	02-Oct-06		ND (5.0)	ND (1.0)	65,200	7.03
MW-32-35	04-Oct-05		ND (1.0)	ND (1.0)	13,100	7.29
	16-Dec-05		ND (1.0)	ND (1.0)	12,600	7.19
	10-Mar-06		ND (2.0)	ND (1.0)	14,200	7.26
	04-May-06		ND (1.0)	ND (1.0)	17,000	7.31
	02-Oct-06		ND (1.0)	ND (1.0)	18,400	7.28
MW-33-40	07-Oct-05		0.68	ND (1.0)	5,480	8.19
	12-Dec-05		ND (1.0)	1.70	9,380	7.78
	09-Mar-06		ND (0.2)	ND (1.0) LF	5,560	8.01
	04-May-06		ND (0.2)	ND (1.0) LF	4,290	8.44
	06-Oct-06		ND (0.2)	ND (1.0)	4,170	8.00 J
MW-33-90	06-Oct-05		15.5	13.0	8,300	7.72
	13-Dec-05		16.4	21.8 J	8,540	7.50
	13-Dec-05	FD	16.5	14.0 J	8,520	7.55
	08-Mar-06		16.7	14.3	10,000	7.76
	03-May-06		16.1	16.4	8,840	7.76
	03-May-06	FD	19.3	15.3	8,590	7.71
	06-Oct-06		17.3	20.9	8,200	7.40 J
MW-33-150	09-Sep-05		3.90	2.80	---	---
	06-Oct-05		4.50	3.90	17,600	7.77
	06-Oct-05	FD	5.30	4.90	17,800	7.79
	02-Nov-05		5.50	4.70	---	---
	12-Dec-05		6.60	5.70	15,600	7.60
	10-Jan-06		6.40	5.00	---	---
	07-Feb-06		4.30 J	6.40	---	---
	08-Mar-06		4.20	3.20	18,300	7.74
	06-Apr-06		4.50	3.00	---	---
	03-May-06		6.60	5.50	17,500	7.63
	16-Jun-06		5.50	5.40	---	---
	13-Jul-06		7.40 J	6.70	---	---
	11-Aug-06		9.30	8.10	---	---
	08-Sep-06		7.40	4.10	---	---
	06-Oct-06		7.70	5.70	18,400	7.30 J
MW-33-210	06-Sep-05		3.50	2.90	---	---
	06-Oct-05		4.00	4.20	20,800	7.58
	02-Nov-05		6.50	5.40	---	---
	12-Dec-05		6.90	5.60	18,000	7.53
	10-Jan-06		7.60	5.20	---	---
	07-Feb-06		9.00	7.20	---	---
	06-Mar-06		10.7	6.50	21,500	7.50
	13-Apr-06		4.20	ND (4.2)	---	---
	05-May-06		10.0	8.80	17,900	7.55
	16-Jun-06		9.20	8.30	---	---
	13-Jul-06		10.0 J	7.50	---	---
	08-Aug-06		9.80	8.70	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-33-210	08-Sep-06		9.20	4.90	---	---
	06-Oct-06		10.2	10.0	20,100	7.25 J
MW-34-55	05-Oct-05		ND (1.0)	ND (1.0)	7,600	7.36
	14-Dec-05		ND (1.0)	ND (1.0)	7,620	7.39
	08-Mar-06		ND (1.0)	ND (1.0)	8,500	7.62
	03-May-06		ND (0.2)	ND (1.0)	7,550	7.58
	04-Oct-06		ND (0.2)	ND (1.0)	2,410	7.98
MW-34-80	07-Sep-05		ND (1.0)	ND (1.0)	---	---
	05-Oct-05		ND (1.0)	ND (1.0)	15,000	7.16
	03-Nov-05		ND (1.0)	ND (1.0)	---	---
	14-Dec-05		ND (1.0)	ND (1.0)	12,500	7.24
	11-Jan-06		ND (1.0)	ND (1.0)	---	---
	08-Feb-06		ND (1.0)	ND (1.0)	---	---
	09-Mar-06		ND (1.0)	ND (1.0)	12,400	7.26
	03-Apr-06		ND (1.0)	ND (1.0)	---	---
	03-May-06		ND (1.0)	ND (1.0)	13,600	7.35
	14-Jun-06		ND (1.0)	ND (1.0)	---	---
	12-Jul-06		ND (1.0)	ND (1.0)	---	---
	08-Aug-06		ND (1.0)	ND (1.0)	---	---
	06-Sep-06		ND (1.0)	ND (1.0)	---	---
	04-Oct-06		ND (1.0)	ND (1.0)	14,200	7.00
MW-34-100	07-Sep-05		673	868	---	---
	20-Sep-05		675	891	---	---
	05-Oct-05		732	732	17,400	7.46
	05-Oct-05	FD	708	703	16,900	7.39
	25-Oct-05		752	628	---	---
	25-Oct-05	FD	752	650	---	---
	03-Nov-05		748 J	897	---	---
	16-Nov-05		759	762	---	---
	16-Nov-05	FD	763	725	---	---
	30-Nov-05		791	797	---	---
	30-Nov-05	FD	802	721	---	---
	14-Dec-05		808	751	15,000	7.52
	14-Dec-05	FD	811	791	15,000	7.50
	28-Dec-05		804	824	---	---
	12-Jan-06		837	771	---	---
	12-Jan-06	FD	856	764	---	---
	23-Jan-06		822	716	---	---
	08-Feb-06		797	706	---	---
	08-Feb-06	FD	785	708	---	---
	22-Feb-06		752	831	---	---
	22-Feb-06	FD	748	846	---	---
	08-Mar-06		800	857	17,900	7.59
	08-Mar-06	FD	801	773	17,900	7.65
	23-Mar-06		830	851	---	---
	23-Mar-06	FD	828	855	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-34-100	03-Apr-06		858	910	---	---
	21-Apr-06		852	873	---	---
	03-May-06		900	946	18,000	7.70
	03-May-06	FD	920	946	18,000	7.72
	17-May-06		935	1180	---	---
	17-May-06	FD	930	1190	---	---
	31-May-06		960	929	---	---
	14-Jun-06		922	839	---	---
	14-Jun-06	FD	921	864	---	---
	28-Jun-06		976	1130	---	---
	12-Jul-06		823 J	851	---	---
	12-Jul-06	FD	828 J	864	---	---
	26-Jul-06		859	955	---	---
	08-Aug-06		889	982	---	---
	28-Aug-06		922	945	---	---
	06-Sep-06		844	963	---	---
	06-Sep-06	FD	797	907	---	---
	20-Sep-06		872	984	---	---
	04-Oct-06		910	889	19,000	7.28
MW-35-60	07-Oct-05		32.5	28.0	6,590	7.57
	07-Oct-05	FD	35.1 J	32.0	6,510	7.52
	14-Dec-05		32.5	32.5	6,350	7.42
	14-Dec-05	FD	33.3	28.6	6,430	7.41
	14-Mar-06		31.6	24.3	7,700	7.53
	01-May-06		25.7	26.4	6,740	7.57
	12-Oct-06		28.6	29.1	8,850	7.43
MW-35-135	07-Oct-05		21.2	17.8	9,460	7.72
	14-Dec-05		25.7	22.8	9,550	7.54
	10-Mar-06		28.0	24.0	10,800	7.67
	10-Mar-06	FD	26.5	25.7	10,700	7.68
	02-May-06		21.0	20.7	12,000	7.82
	12-Oct-06		35.4	34.6	9,570	7.43 R
	12-Oct-06	FD	34.0	30.8	8,640	7.60
MW-36-20	03-Oct-05		ND (1.0)	ND (1.0)	16,300	7.35
	15-Dec-05		ND (2.0)	ND (1.0)	3260 R	7.14
	07-Mar-06		ND (1.0)	ND (1.0)	15,100	7.58
	01-May-06		ND (1.0)	ND (1.0)	20,000	7.52
	02-Oct-06		ND (1.0)	ND (1.0)	20,500	7.33
MW-36-40	03-Oct-05		ND (1.0)	ND (1.0)	14,800	7.28
	15-Dec-05		ND (1.0)	ND (1.0)	12,300	7.38
	07-Mar-06		ND (1.0)	ND (1.0)	13,800	7.51
	01-May-06		ND (1.0)	ND (1.0)	13,000	7.64
	05-Oct-06		ND (1.0)	ND (1.0)	11,600	7.30
MW-36-50	03-Oct-05		ND (1.0)	ND (1.0)	8,090	7.34
	15-Dec-05		ND (1.0)	ND (1.0)	11,000	7.28

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-36-50	07-Mar-06		ND (1.0)	ND (1.0)	7,850	7.63
	07-Mar-06	FD	ND (1.0)	ND (1.0)	7,650	7.46
	01-May-06		ND (0.2)	ND (1.0)	6,970	7.64
	05-Oct-06		ND (0.2)	ND (1.0)	3240 J	7.37
MW-36-70	03-Oct-05		ND (1.0)	ND (1.0)	8,540	7.30
	15-Dec-05		ND (1.0)	ND (1.0)	8,220	7.40
	10-Feb-06		ND (10)	ND (1.0)	---	---
	07-Mar-06		ND (1.0)	ND (1.0)	9,120	7.55
	06-Apr-06		ND (1.0)	ND (1.0)	---	---
	01-May-06		ND (1.0)	ND (1.0)	8,410	7.60
	13-Jun-06		ND (0.2) J	ND (1.0)	---	---
	11-Jul-06		ND (1.0)	ND (1.0)	---	---
	09-Aug-06		ND (0.2)	ND (1.0)	---	---
	07-Sep-06		ND (0.2)	ND (1.0)	---	---
	02-Oct-06		ND (0.2)	ND (1.0)	4,900	7.81
MW-36-90	08-Sep-05		267	301	---	---
	03-Oct-05		302	286	16,800	7.28
	02-Nov-05		256	247	---	---
	15-Dec-05		240	219	13,900	7.27
	12-Jan-06		245	223	---	---
	10-Feb-06		71.8	71.4	---	---
	07-Mar-06		33.0	27.5	11,800	7.49
	04-Apr-06		23.5	15.7	---	---
	01-May-06		22.8	18.3	11,200	7.61
	13-Jun-06		10.9	9.00	---	---
	11-Jul-06		12.2	11.1	---	---
	09-Aug-06		9.00	8.20	---	---
	07-Sep-06		8.80	7.70	---	---
	02-Oct-06		9.00	8.50	7,960	7.58
	02-Oct-06	FD	8.90	10.8	7,880	7.54
MW-36-100	08-Sep-05		396 J	380	---	---
	08-Sep-05	FD	397	454	---	---
	05-Oct-05		383	370	15,500	7.18
	03-Nov-05		315	368	---	---
	13-Dec-05		306	333	15,800	7.25
	12-Jan-06		287	288	---	---
	09-Feb-06		307	288	---	---
	13-Mar-06		540	531	18,100	7.36
	05-Apr-06		554	492	---	---
	02-May-06		532	517	16,600	7.45
	15-Jun-06		496 J	465	---	---
	13-Jul-06		528	497	---	---
	09-Aug-06		551	474	---	---
	08-Sep-06		556	561	---	---
	11-Oct-06		556	629	17500 J	7.16
MW-37D	04-Oct-05		1800	1970	14,900	7.77

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-37D	14-Dec-05		1680	1610	13,300	7.67
	13-Mar-06		1950	1860	16,000	7.64
	03-May-06		1970	1880	16,200	7.87
	13-Oct-06		1330	1160	15,900	7.68
MW-37S	04-Oct-05		7.00	6.60	4,210	7.98
	04-Oct-05	FD	7.00	6.50	4,180	7.90
	14-Dec-05		8.00	7.10	4,220	7.60
	14-Dec-05	FD	7.60	7.00	4,230	7.62
	13-Mar-06		7.70	7.00	4,280	7.70
	04-May-06		8.30	9.30	4,260	7.85
	04-May-06	FD	8.00	---	4,250	7.81
	13-Oct-06		7.60	6.10	4,580	7.73
MW-38D	07-Oct-05		227	227	21,500	7.95
	10-Mar-06		111	106	23,500	7.85
	12-Oct-06		104	104	27,100	7.38
MW-38S	07-Oct-05		776	825	3,430	7.47
	10-Mar-06		824	788	3,700	7.53
	12-Oct-06		846	905	3480 J	7.49
MW-39-40	04-Oct-05		ND (0.2)	ND (1.0)	5,640	7.58
	16-Dec-05		ND (0.2)	ND (1.0)	6,010	7.45
	07-Mar-06		ND (1.0)	ND (1.0)	7,780	7.55
	02-May-06		ND (1.0)	ND (1.0)	8,490	7.59
	05-Oct-06		ND (0.2)	ND (1.0)	7,890	7.18
MW-39-50	04-Oct-05		ND (10)	4.70	12,000	7.52
	12-Jan-06		ND (10)	ND (1.0)	---	---
	08-Mar-06		ND (1.0)	ND (1.0)	12,200	7.49
	02-May-06		ND (1.0)	ND (1.0)	10,300	7.61
	05-Oct-06		ND (0.2)	ND (1.0)	7,370	7.31
MW-39-60	04-Oct-05		72.3	79.6 J	13,200	7.37
	16-Dec-05		20.4	20.4	14,400	7.16
	08-Mar-06		7.10	2.70	15,700	7.42
	08-Mar-06	FD	6.90	2.40	15,300	7.47
	02-May-06		1.10	1.40	13,200	7.49
	05-Oct-06		ND (1.0)	ND (1.0)	7,180	7.34
	05-Oct-06	FD	ND (2.0)	ND (1.0)	7,800	7.38
MW-39-70	04-Oct-05		840	754	11,900	7.34
	16-Dec-05		1240	1080	12,800	7.24
	10-Feb-06		338	340	---	---
	08-Mar-06		200	169	12,300	7.46
	06-Apr-06		223	204	---	---
	02-May-06		137	123	11,500	7.48
	14-Jun-06		107 J	94.6	---	---
	12-Jul-06		77.0 J	66.7	---	---
	10-Aug-06		89.6	86.2	---	---
	07-Sep-06		155	153	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-39-70	05-Oct-06		112	103	8,020	7.23
MW-39-80	06-Sep-05		2990	4880	---	---
	04-Oct-05		3000	2770	15,000	7.38
	02-Nov-05		3200	3020	---	---
	15-Dec-05		2740	2570	12,600	7.34
	12-Jan-06		2280	2060	---	---
	10-Feb-06		1750	1610	---	---
	08-Mar-06		1420	1400	15,900	7.48
	06-Apr-06		1200	1120	---	---
	02-May-06		1410	1450	15,400	7.27
	14-Jun-06		1000 J	934	---	---
	12-Jul-06		830 J	750	---	---
	10-Aug-06		481	447	---	---
	07-Sep-06		1160	1160	---	---
	05-Oct-06		580	594	16,600	7.09
MW-39-100	06-Sep-05		4540	6480	---	---
	04-Oct-05		4010	3950	16,300	7.40
	02-Nov-05		3580	3480	---	---
	02-Nov-05	FD	3650	3410	---	---
	13-Dec-05		3640	3440	16,700	7.22
	12-Jan-06		4720	4280	---	---
	09-Feb-06		4500	4310	---	---
	13-Mar-06		4070	4640	20,700	7.20
	05-Apr-06		4470	4050	---	---
	05-Apr-06	FD	4460	4330	---	---
	02-May-06		3680	3480	20,500	7.22
	14-Jun-06		3270	3250	---	---
	13-Jul-06		3790	3470	---	---
	10-Aug-06		3230	3440	---	---
	10-Aug-06	FD	3170	3410	---	---
	08-Sep-06		3290	3780	---	---
	11-Oct-06		3370	3500	20,000	7.02
MW-40D	05-Oct-05		57.4	67.0	16,700	7.54
	13-Dec-05		83.5	78.1	14,600	7.43
	08-Mar-06		89.9	76.7	17,200	7.59
	03-May-06		79.8	85.3	14,700	7.75
	05-Oct-06		104	86.1	18,600	7.37
MW-40S	05-Oct-05		4.90	4.40	1,890	7.65
	13-Dec-05		5.10 J	5.10	1,850	7.54
	08-Mar-06		5.20	3.90	1,960	7.69
	03-May-06		5.70	6.70	1,950	7.85
	03-May-06	FD	5.60	7.20	1,930	7.85
	05-Oct-06		5.20	5.10	2,120	7.53
MW-41D	05-Oct-05		ND (1.0)	ND (1.0)	19,200	7.71
	16-Dec-05		ND (1.0)	ND (1.0)	19,600	7.59

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-41D	15-Mar-06		ND (1.0)	ND (1.0)	23,500	7.84
	05-May-06		ND (1.0)	1.40	19,500	7.99
	04-Oct-06		ND (1.0)	ND (1.0)	22,300	7.54 R
MW-41M	05-Oct-05		5.40	5.00	13,200	7.69
	16-Dec-05		8.90	6.50	15,900	7.64
	13-Mar-06		8.50	7.40	16,300	7.64
	05-May-06		8.80	9.80	12,000	7.84
	05-Oct-06		10.2	9.70	15,200	7.66
	05-Oct-06	FD	10.5	10.4	16,400	7.54
MW-41S	05-Oct-05		17.0	17.7	4,520	7.81
	05-Oct-05	FD	17.3	15.3	4,470	7.87
	16-Dec-05		18.2	15.8	4,620	7.74
	16-Dec-05	FD	18.4	16.1	4,650	7.77
	13-Mar-06		17.6	18.0	5,170	7.82
	05-May-06		19.2	18.3	4,450	7.98
	05-May-06	FD	19.2	17.2	4,550	8.00
	05-Oct-06		19.6	19.0	4,780	7.69
MW-42-30	07-Oct-05		ND (1.0)	ND (1.0)	17,200	7.26
	15-Dec-05		ND (1.0)	ND (1.0)	17,800	7.14
	07-Mar-06		ND (1.0)	ND (1.0)	11,100	7.42
	02-May-06		ND (1.0)	ND (1.0)	13,900	7.34
	03-Oct-06		ND (1.0)	ND (1.0)	19,400	7.14
MW-42-55	07-Oct-05		ND (1.0)	ND (1.0)	19,500	7.25
	15-Dec-05		ND (1.0)	ND (1.0)	12,100	7.28
	07-Mar-06		ND (1.0)	ND (1.0)	15,600	7.36
	02-May-06		ND (1.0)	ND (1.0)	17,000	7.32
	03-Oct-06		ND (1.0)	ND (1.0)	17,500	7.16
MW-42-65	07-Oct-05		ND (1.0)	ND (1.0)	20,000	6.99
	15-Dec-05		ND (1.0)	ND (1.0)	16,100	7.10
	07-Mar-06		ND (1.0)	ND (1.0)	18,000	7.12
	02-May-06		ND (1.0)	ND (1.0)	20,000	7.05
	03-Oct-06		ND (1.0)	ND (1.0)	19,900	7.02
MW-43-25	04-Oct-05		ND (0.2)	ND (1.0)	1,170	7.32
	16-Dec-05		ND (0.2)	ND (1.0)	1,340	7.20
	10-Mar-06		ND (0.2)	ND (1.0)	1,240	7.23
	04-May-06		ND (0.2)	ND (1.0)	1,210	7.31
	02-Oct-06		ND (0.2)	ND (1.0)	1,190	7.46
MW-43-75	08-Sep-05		ND (1.0)	ND (1.0)	---	---
	04-Oct-05		ND (1.0)	ND (1.0) J	15,000	7.46
	03-Nov-05		ND (2.0)	ND (1.0)	---	---
	16-Dec-05		ND (1.0)	ND (1.0)	13,100	7.37
	11-Jan-06		ND (1.0)	ND (1.0)	---	---
	10-Feb-06		ND (1.0)	ND (1.0)	---	---
	10-Mar-06		ND (1.0)	ND (1.0)	15,900	7.36
	03-Apr-06		ND (1.0)	ND (1.0)	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-43-75	04-May-06		ND (1.0)	ND (1.0)	13,000	7.37
	02-Oct-06		ND (1.0)	ND (1.0)	17,400	7.49
MW-43-90	08-Sep-05		ND (1.0)	ND (1.0)	---	---
	04-Oct-05		ND (1.0)	ND (1.0)	22,000	6.95
	03-Nov-05		ND (2.0)	ND (1.0)	---	---
	16-Dec-05		ND (1.0)	ND (1.0)	19,900	6.93
	11-Jan-06		ND (1.0)	ND (1.0)	---	---
	10-Feb-06		ND (1.0)	ND (1.0)	---	---
	10-Mar-06		ND (2.0)	ND (1.0)	24,300	7.01
	03-Apr-06		ND (1.0)	ND (1.0)	---	---
	04-May-06		ND (1.0)	ND (1.0)	12,600	6.91
	02-Oct-06		ND (1.0)	ND (1.0)	26,000	7.14
MW-44-70	09-Mar-06		ND (1.0)	ND (1.0)	---	---
	23-Mar-06		ND (1.0) J	ND (1.0)	7,960	7.23
	04-Apr-06		ND (1.0)	ND (1.0)	---	---
	04-May-06		ND (1.0)	ND (1.0)	7,270	7.55
	13-Jun-06		ND (1.0)	ND (1.0)	---	---
	13-Jun-06	FD	ND (1.0)	ND (1.0)	---	---
	15-Jun-06		ND (1.0)	ND (1.0)	---	---
	04-Oct-06		ND (1.0)	ND (1.0)	8,220	7.16
MW-44-115	14-Mar-06		735 J	730	13,900	7.76
	22-Mar-06		1440	1970	14,400	7.88
	04-Apr-06		1550	1620	---	---
	04-Apr-06	FD	1570	1570	---	---
	20-Apr-06		1680	1650	---	---
	20-Apr-06	FD	1680	1610	---	---
	26-Apr-06		1560	1580	---	---
	04-May-06		1710	1870	12,600	7.90
	10-May-06		1490	1550	---	---
	17-May-06		1560	1880	---	---
	31-May-06		1610	1580	---	---
	31-May-06	FD	1610	1600	---	---
	13-Jun-06		1420	1350	---	---
	28-Jun-06		1600	1830	---	---
	12-Jul-06		1700 J	1430	---	---
	26-Jul-06		1290	1530	---	---
	09-Aug-06		1230	1460 LF	---	---
	23-Aug-06		1370	1440	---	---
	07-Sep-06		1380	1340	---	---
	21-Sep-06		911	1180	---	---
	05-Oct-06		1300	1310	13,800	7.55
MW-44-125	09-Mar-06		66.6 R	67.5 R	---	---
	22-Mar-06		362	430	12,200	8.41
	04-Apr-06		372	374	---	---
	20-Apr-06		461	504	---	---
	26-Apr-06		480	485	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date		Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-44-125	26-Apr-06	FD	479	493	---	---
	04-May-06		584	592	12,700	8.51
	10-May-06		634 J	667	---	---
	17-May-06		612	740	---	---
	31-May-06		413	398	---	---
	28-Jun-06		---	---	---	---
	11-Jul-06		373	395	---	---
	11-Jul-06	FD	365	335	---	---
	26-Jul-06		155	177	---	---
	26-Jul-06	FD	157	180	---	---
	09-Aug-06		218	227 LF	---	---
	28-Aug-06		468	486	---	---
	28-Aug-06	FD	462	540	---	---
	07-Sep-06		314	297	---	---
	07-Sep-06	FD	311	275	---	---
	20-Sep-06		224	262	---	---
	20-Sep-06	FD	226	261	---	---
	05-Oct-06		284	280	15,300	7.82
MW-45-095a	24-Mar-06		259	216	14,000	7.86
	13-Jul-06		197	202	---	---
MW-45-095b	24-Mar-06		332	327	15,000	7.92
MW-46-175	14-Mar-06		287	279	17,700	8.30
	24-Mar-06		213	173	17,800	8.57
	07-Apr-06		208 J	186	---	---
	04-May-06		222	237	15,600	8.43
	18-May-06		227	268	---	---
	31-May-06		139 J	169	---	---
	15-Jun-06		233	211	---	---
	30-Jun-06		112	160	---	---
	30-Jun-06	FD	111	164	---	---
	12-Jul-06		135 J	85.8	---	---
	27-Jul-06		174	206	---	---
	09-Aug-06		210	186	---	---
	09-Aug-06	FD	223	214	---	---
	25-Aug-06		137	136	---	---
	07-Sep-06		183	170	---	---
	21-Sep-06		190	244	---	---
	05-Oct-06		194	192	15,700	7.92
	05-Oct-06	FD	195	187	17,700	7.82
MW-46-205	14-Mar-06		ND (1.0)	ND (1.0)	22,000	8.15
	24-Mar-06		ND (1.0)	ND (1.0)	21,900	8.44
	07-Apr-06		ND (1.0) J	ND (1.0)	---	---
	04-May-06		ND (1.0)	ND (1.0)	18,900	8.38
	15-Jun-06		ND (1.0)	1.80	---	---
	13-Jul-06		ND (1.0)	3.50	---	---
	10-Aug-06		ND (1.0)	ND (1.0)	---	---

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
MW-46-205	07-Sep-06	2.00	2.30	---	---
	05-Oct-06	2.10	2.30	18,000	7.94
MW-47-55	23-Mar-06	10.9 J	7.90	3,650	7.50
	16-May-06	24.0	27.3	---	---
	10-Oct-06	56.9	56.8	3,670	7.56
MW-47-115	23-Mar-06	ND (2.0) J	ND (1.0)	14,200	7.65
	16-May-06	1.40	5.10	---	---
	10-Oct-06	ND (3.5)	6.90	14,600	7.46
MW-48	18-May-06	ND (1.0)	ND (1.0)	16,800	7.57
	06-Jun-06	ND (1.0)	ND (1.0)	---	---
	06-Oct-06	ND (1.0)	ND (1.0)	17,600	7.19 J
MW-49-135	25-Apr-06	ND (1.0) J	ND (1.0)	16,100	5.50 R
	18-May-06	ND (1.0)	ND (1.0)	---	---
	12-Oct-06	ND (1.0)	ND (1.0)	17,000	7.24
MW-49-275	25-Apr-06	ND (1.0)	ND (1.0)	27,700	7.25
	18-May-06	ND (1.0)	ND (1.0)	---	---
	12-Oct-06	ND (1.0)	ND (1.0)	30,300	7.71
MW-49-365	26-Apr-06	ND (2.0)	ND (1.0)	43,200	7.36
	16-May-06	ND (2.0)	ND (1.0)	---	---
	12-Oct-06	ND (2.0)	ND (1.0)	46,000	7.05 R
MW-50-095	09-May-06	199	194	5,530	7.95
	24-May-06	218	221	---	---
	10-Oct-06	278	277	4,660	7.53
MW-50-200	09-May-06	7750	7360	22,800	8.13
	24-May-06	5810	5910	---	---
	10-Oct-06	9660	11800	18,400	7.34
MW-51	12-May-06	4370	4630	10,900	7.68
	30-May-06	4130	4530	---	---
	06-Oct-06	4560	4590	11,800	7.40 J
OW-3D	06-Oct-05	0.30	ND (1.0)	6,900	8.19
	09-Mar-06	2.50	2.20	8,240	7.82
	06-Oct-06	2.70	3.60	7,630	7.70 J
OW-3M	06-Oct-05	16.7	14.3	4,680	8.12
	09-Mar-06	17.0	15.7	5,420	7.77
	12-Oct-06	17.8	20.0 J	5,100	7.40
	12-Oct-06 FD	17.9	15.3 J	4,960	7.49
OW-3S	06-Oct-05	19.3	16.6	1,740	7.79
	09-Mar-06	21.2	18.2	1,700	7.53
	12-Oct-06	22.1	20.7	1,640	7.37
PE-1	03-Oct-05	ND (1.0)	ND (1.0)	11,800	7.14
	13-Dec-05	ND (1.0)	ND (1.0) LF	11,800	7.21
	08-Feb-06	136	136 LF	13,200	7.57
	08-Mar-06	136	125	12,000	7.52

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Well ID	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
PE-1	06-Apr-06	133	117	13,000	7.18
	11-May-06	118	109	11,200	7.55
	15-Jun-06	101	87.3	10,600	7.53
	12-Jul-06	95.9	72.4	10,600	7.49
	09-Aug-06	95.9	83.4	9,650	7.33
	07-Sep-06	85.4	90.5	10,600	7.37
	04-Oct-06	90.1	83.9	10,300	7.18
	01-Nov-06	92.5	83.3	10,800	7.56
PGE-6	12-Oct-05	1630	2070	3,730	7.65
PGE-7	13-Oct-05	ND (1.0)	ND (1.0)	10,800	9.44
PGE-8	13-Oct-05	ND (1.0) J	2.10	16,900	8.52
Park Moabi	05-Oct-05	9.20	7.60	1,280	7.69
	16-Dec-05	ND (0.2)	ND (1.0)	2,100	7.38
	06-Mar-06	9.50	7.80	1,260	7.69
	03-May-06	9.60	11.8 UF	1,300	7.92
	04-Oct-06	2.00	6.30 LF	1,150	7.25
TW-1	11-Oct-05	3990	4340	6,200	7.32
TW-2D	18-Jan-06	2180	1980 LF	11,400	7.32
	15-Mar-06	1360	1360	8,960	7.41
	03-May-06	1120	1120	7,190	7.44
	04-Oct-06	872	910	9,320	7.23
TW-2S	07-Oct-05	3360	3340	2,790	7.72
	15-Mar-06	2720	2870	2,680	7.78
	03-May-06	2400	2600	2,520	7.76
	04-Oct-06	1920	2130	2,690	7.55
TW-3D	18-Jan-06	4330	4720 LF	8,740	7.49
	08-Feb-06	3250	2880 LF	9,760	7.52
	08-Mar-06	3040	3210	9,640	7.54
	06-Apr-06	2950	2710	10,900	7.30
	11-May-06	2740	2690	9,900	7.52
	15-Jun-06	2610	2450	9,900	7.63
	12-Jul-06	2590	2440	9,570	7.35
	09-Aug-06	2660	3060	9,280	7.35
	07-Sep-06	2380	2440	9,990	7.40
	04-Oct-06	2470	2460	10,500	7.02
	01-Nov-06	2490	3180	10,600	7.34
TW-4	18-May-06	1.00	6.40	21,900	7.71
	05-Jun-06	ND (1.0)	4.10	---	---
	09-Oct-06	28.5	26.6	21,900	7.25
TW-5	10-May-06	1.10 J	1.30	13,600	8.05
	01-Jun-06	ND (1.0) J	ND (1.0)	---	---
	09-Oct-06	3.60	3.20	14,900	7.67

TABLE 3
Groundwater COC Sampling Results, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

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
(---)	not collected or not available
FD	field duplicate sample
LF	lab filtered
UF	unfiltered

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

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

Monitoring well MW-24BR was not sampled during the October 2005 monitoring event due to equipment problems.

Groundwater samples were not collected from MW-39-50 in December 2005 due to a field sampling error. Extraction well TW-2S was not sampled in December 2005 due to concurrent plumbing work for TW-3D and PE-1.

Pumping from converted extraction well PE-1 was initiated on Jan 25, 2006.

Monitoring well MW-21 was not sampled in March 2006 due to the well being purged dry and not recharging.

Monitoring wells MW-12 and MW-29 were sampled in April rather than March 2006 due to inaccessibility to the wells from drilling operations in March.

The field duplicate for monitoring well MW-37S in May 2006 was not analyzed for dissolved total chromium due to a documentation error.

Results for MW-44-125 from the June 28th sampling event are not shown while these data are reviewed by DTSC.

TABLE 4
Surface Water COC Sampling Results, September 2005 through October 2006
PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
CON	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	976	8.07
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.07
	11-Jan-06	ND (0.2)	ND (1.0)	---	---
	09-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.13
	07-Apr-06	ND (0.2)	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	997	8.38
	15-Jun-06	ND (0.2)	ND (1.0)	---	---
	12-Jul-06	ND (0.2) J	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,010	8.01 R
I-3	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	968	8.08
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.08
	11-Jan-06	ND (0.2)	ND (1.0)	---	---
	10-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.15
	07-Apr-06	ND (0.2)	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	968	8.41
	15-Jun-06	ND (0.2)	ND (1.0)	---	---
	12-Jul-06	ND (0.2)	ND (1.0)	---	---
	10-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,040	8.37 R
NR-1	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	972	8.10
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	15-Dec-05	ND (0.2)	ND (1.0)	1,010	8.13
	10-Jan-06	ND (0.2)	ND (1.0)	---	---
	07-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.05
	07-Apr-06	ND (0.2) J	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	986	8.39
	16-Jun-06	ND (0.2)	ND (1.0)	---	---
	13-Jul-06	ND (0.2)	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	7.79 R
NR-2	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	971	8.12
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.18

TABLE 4
Surface Water COC Sampling Results, September 2005 through October 2006
PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
NR-2	10-Jan-06	ND (0.2)	ND (1.0)	---	---
	07-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.11
	07-Apr-06	ND (0.2) J	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	992	8.36
	16-Jun-06	ND (0.2)	ND (1.0)	---	---
	13-Jul-06	ND (0.2)	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.03 R
NR-3	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	968	8.09
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	15-Dec-05	ND (0.2)	ND (1.0)	1,000	8.18
	10-Jan-06	ND (0.2)	ND (1.0)	---	---
	07-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.02
	07-Apr-06	ND (0.2) J	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	830	8.32
	16-Jun-06	ND (0.2)	ND (1.0)	---	---
	13-Jul-06	ND (0.2)	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.11 R
R-22	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	981	8.07
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	16-Dec-05	ND (0.2)	ND (1.0)	1,020	8.13
	11-Jan-06	ND (0.2)	ND (1.0)	---	---
	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.01
	07-Apr-06	ND (0.2)	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	998	8.41
	15-Jun-06	ND (0.2)	ND (1.0)	---	---
	12-Jul-06	ND (0.2)	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	07-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (1.0)	ND (1.0)	1,020	7.68
R-27	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	969	8.09
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	16-Dec-05	ND (0.2)	ND (1.0)	1,010	8.11
	12-Jan-06	ND (0.2)	ND (1.0)	---	---
	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.09
	07-Apr-06	ND (0.2) J	ND (1.0)	---	---

TABLE 4
Surface Water COC Sampling Results, September 2005 through October 2006
PG&&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH
R-27	03-May-06	ND (0.2)	ND (1.0)	1,010	8.38
	15-Jun-06	ND (0.2)	ND (1.0)	---	---
	12-Jul-06	ND (0.2) J	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	07-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,020	8.45 R
R-28	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2) J	ND (1.0)	970	8.08
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	16-Dec-05	ND (0.2)	ND (1.0)	1,010	8.16
	10-Jan-06	ND (0.2)	ND (1.0)	---	---
	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,010	8.15
	07-Apr-06	ND (0.2) J	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	877	8.36
	15-Jun-06	ND (0.2)	ND (1.0)	---	---
	13-Jul-06	ND (0.2)	ND (1.0)	---	---
	08-Aug-06	ND (0.2)	ND (1.0)	---	---
	07-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,010	8.25 R
RRB	07-Sep-05	ND (0.2)	ND (1.0)	---	---
	05-Oct-05	ND (0.2)	ND (1.0)	998	7.88
	01-Nov-05	ND (0.2)	ND (1.0)	---	---
	08-Feb-06	ND (0.2)	ND (1.0)	---	---
	06-Mar-06	ND (0.2)	ND (1.0)	1,040	8.05
	07-Apr-06	ND (0.2)	ND (1.0)	---	---
	03-May-06	ND (0.2)	ND (1.0)	920	8.40
	16-Jun-06	ND (0.2)	ND (1.0)	---	---
	12-Jul-06	ND (0.2) J	ND (1.0)	---	---
	10-Aug-06	ND (0.2)	ND (1.0)	---	---
	06-Sep-06	ND (0.2)	ND (1.0)	---	---
	04-Oct-06	ND (0.2)	ND (1.0)	1,070	7.90 R

TABLE 4
Surface Water COC Sampling Results, September 2005 through October 2006
PG&&E Topock Groundwater and Surface Water Monitoring Program

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
(---)	data not collected or not available
R	result exceeded analytical criteria for precision and accuracy; should not be used for project decision-making

Hexavalent chromium analysis method: SW7199 (reporting limit 0.2 µg/L)

Other analysis methods: total chromium (Methods SW 6020A and SW 6010B), specific conductance (EPA120.1), pH (EPA150.1)

Surface water station RRB was not sampled in December 2005 or January 2006 due to the location being dry

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-CON-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.11	344	635	ND (10)
C-CON-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.09	344	640	ND (10)
C-CON-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.10	324	655	ND (10)
C-CON-S	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.13	328	710	ND (10)
C-CON-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	328	730	ND (10)
C-CON-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.06	328	700	ND (10)
C-CON-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-CON-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	330	---	---
C-CON-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-CON-S	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	328	720	ND (10)
C-CON-M	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	332	730	ND (10)
C-CON-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.14	340	710	ND (10)
C-CON-S	18-Jan-06	ND (0.2)	ND (1.0)	---	---	334	---	---
C-CON-M	18-Jan-06	ND (0.2)	ND (1.0)	---	---	328	---	---
C-CON-D	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-CON-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	344	740	ND (10)
C-CON-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	740	ND (10)
C-CON-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.24	340	730	ND (10)
C-CON-S	15-Jun-06	ND (0.2)	ND (1.0)	987	8.12	340	695	ND (10)
C-CON-M	15-Jun-06	ND (0.2)	ND (1.0)	979	8.13	340	710	ND (10)
C-CON-D	15-Jun-06	ND (0.2)	ND (1.0)	964	8.13	336	710	ND (10)
C-CON-D	03-Oct-06	ND (0.2)	ND (1.0)	956	8.04	313	580	ND (10)
C-CON-M	03-Oct-06	ND (0.2)	ND (1.0)	953	8.02	313	615	ND (10)
C-CON-S	03-Oct-06	ND (0.2)	ND (1.0)	955	8.00	325	570	ND (10)
C-I-3-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.16	348	615	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-I-3-M	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.11	352	635	ND (10)
C-I-3-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.15	332	620	ND (10)
C-I-3-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.16	324	750	ND (10)
C-I-3-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.24	316	725	ND (10)
C-I-3-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	324	730	ND (10)
C-I-3-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-I-3-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	316	---	---
C-I-3-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
C-I-3-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.20	332	750	ND (10)
C-I-3-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.16	328	705	ND (10)
C-I-3-D	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.18	336	730	ND (10)
C-I-3-S	19-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-I-3-M	19-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-I-3-D	19-Jan-06	ND (0.2)	ND (1.0)	---	---	332	---	---
C-I-3-S	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.30	336	735	ND (10)
C-I-3-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	336	725	ND (10)
C-I-3-D	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	344	720	ND (10)
C-I-3-S	15-Jun-06	ND (0.2)	ND (1.0)	950	8.06	340	715	ND (10)
C-I-3-M	15-Jun-06	ND (0.2)	ND (1.0)	956	8.08	340	710	ND (10)
C-I-3-D	15-Jun-06	ND (0.2)	ND (1.0)	954	8.09	370	675	ND (10)
C-I-3-D	03-Oct-06	ND (0.2)	ND (1.0)	943	8.12	309	660	ND (10)
C-I-3-M	03-Oct-06	ND (0.2)	ND (1.0)	953	8.12	297	615	ND (10)
C-I-3-S	03-Oct-06	ND (0.2)	ND (1.0)	962	8.11	337	630	ND (10)
C-MAR-M	21-Sep-05	ND (0.2)	ND (1.0)	1,150	8.11	336	740	103
C-MAR-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	360	---	---

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-MAR-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	364	---	---
C-MAR-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	348	---	---
C-MAR-M	13-Dec-05	ND (0.2)	ND (1.0)	1,380	7.95	422	950	20.0
C-MAR-M	19-Jan-06	ND (0.2)	ND (1.0)	---	---	368	---	---
C-MAR-M	23-Mar-06	ND (0.2)	ND (1.0)	1,170	7.97	392	830	46.0
C-MAR-S	15-Jun-06	ND (0.2)	ND (1.0)	987	7.86	353	685	32.0
C-MAR-D	15-Jun-06	ND (0.2)	ND (1.0)	1,000	7.87	366	705	31.0
C-MAR-M	03-Oct-06	ND (0.2)	ND (1.0)	985	7.84	325	660	72.0
C-NR1-S	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.19	336	610	ND (10)
C-NR1-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.16	348	600	ND (10)
C-NR1-D	13-Jul-05	ND (0.2)	ND (1.0)	1,080	8.18	336	605	ND (10)
C-NR1-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.18	324	725	ND (10)
C-NR1-M	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.13	324	730	ND (10)
C-NR1-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.13	320	740	ND (10)
C-NR1-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	300	---	---
C-NR1-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-NR1-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-NR1-S	14-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	336	705	ND (10)
C-NR1-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.21	340	695	ND (10)
C-NR1-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.11	332	700	ND (10)
C-NR1-S	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-NR1-M	18-Jan-06	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR1-D	18-Jan-06	ND (0.2)	ND (1.0)	---	---	326	---	---
C-NR1-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.24	344	730	ND (10)
C-NR1-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	720	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR1-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	344	765	ND (10)
C-NR1-S	16-Jun-06	ND (0.2)	ND (1.0)	950	9.56	328	690	ND (10)
C-NR1-M	16-Jun-06	ND (0.2)	ND (1.0)	938	9.62	328	700	ND (10)
C-NR1-D	16-Jun-06	ND (0.2)	ND (1.0)	931	9.60	340	725	ND (10)
C-NR1-D	04-Oct-06	ND (0.2)	ND (1.0)	986	8.19	315	750	ND (10)
C-NR1-M	04-Oct-06	ND (0.2)	ND (1.0)	995	8.18	323	750	ND (10)
C-NR1-S	04-Oct-06	ND (0.2)	ND (1.0)	1,000	8.20	335	740	ND (10)
C-NR3-S	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.05	344	695	ND (10)
C-NR3-M	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.06	352	730	ND (10)
C-NR3-D	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.07	348	710	ND (10)
C-NR3-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.18	328	735	ND (10)
C-NR3-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.20	324	725	ND (10)
C-NR3-D	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	320	750	ND (10)
C-NR3-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR3-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	308	---	---
C-NR3-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-NR3-S	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.15	336	730	ND (10)
C-NR3-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.20	332	690	ND (10)
C-NR3-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.18	336	665	ND (10)
C-NR3-S	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-NR3-M	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-NR3-D	18-Jan-06	ND (0.2)	ND (1.0)	---	---	340	---	---
C-NR3-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.23	349	790	ND (10)
C-NR3-M	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.21	349	745	ND (10)
C-NR3-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.20	336	715	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR3-S	16-Jun-06	ND (0.2)	ND (1.0)	915	9.88	340	715	ND (10)
C-NR3-M	16-Jun-06	ND (0.2)	ND (1.0)	934	9.92	340	690	ND (10)
C-NR3-D	16-Jun-06	ND (0.2)	ND (1.0)	957	9.82	345	715	ND (10)
C-NR3-D	04-Oct-06	ND (0.2)	ND (1.0)	987	8.16	331	735	ND (10)
C-NR3-M	04-Oct-06	ND (0.2)	ND (1.0)	981	8.19	327	705	ND (10)
C-NR3-S	04-Oct-06	ND (0.2)	ND (1.0)	975	8.17	323	715	ND (10)
C-NR4-S	14-Jul-05	ND (0.2)	ND (1.0)	1,090	8.09	340	715	ND (10)
C-NR4-M	14-Jul-05	ND (0.2)	ND (1.0)	1,080	7.96	344	700	ND (10)
C-NR4-D	14-Jul-05	ND (0.2)	ND (1.0)	1,080	8.07	348	670	ND (10)
C-NR4-S	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.10	324	735	ND (10)
C-NR4-M	22-Sep-05	ND (0.2)	ND (1.0)	1,110	8.12	324	745	ND (10)
C-NR4-D	22-Sep-05	ND (0.2)	ND (1.0)	1,100	8.11	324	720	ND (10)
C-NR4-S	09-Nov-05	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR4-M	09-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-NR4-D	09-Nov-05	ND (0.2)	ND (1.0)	---	---	336	---	---
C-NR4-S	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.04	336	715	ND (10)
C-NR4-M	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.17	340	690	ND (10)
C-NR4-D	14-Dec-05	ND (0.2)	ND (1.0)	1,060	8.15	336	680	ND (10)
C-NR4-S	18-Jan-06	ND (0.2)	ND (1.0)	---	---	320	---	---
C-NR4-M	18-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-NR4-D	18-Jan-06	ND (0.2)	ND (1.0)	---	---	328	---	---
C-NR4-S	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.21	344	725	ND (10)
C-NR4-M	22-Mar-06	ND (0.2)	ND (1.0)	1,020	8.10	340	745	ND (10)
C-NR4-D	22-Mar-06	ND (0.2)	ND (1.0)	1,030	8.22	344	730	ND (10)
C-NR4-S	16-Jun-06	ND (0.2)	ND (1.0)	931	9.88	366	685	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-NR4-M	16-Jun-06	ND (0.2)	ND (1.0)	922	9.86	345	655	ND (10)
C-NR4-D	16-Jun-06	ND (0.2)	ND (1.0)	902	9.92	332	685	ND (10)
C-NR4-D	04-Oct-06	ND (0.2)	ND (1.0)	970	8.17	323	710	ND (10)
C-NR4-M	04-Oct-06	ND (0.2)	ND (1.0)	983	8.16	335	730	ND (10)
C-NR4-S	04-Oct-06	ND (0.2)	ND (1.0)	995	8.09	343	740	ND (10)
C-R22-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.18	352	630	ND (10)
C-R22-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.11	352	610	ND (10)
C-R22-D	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.17	352	590	ND (10)
C-R22-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.19	336	720	ND (10)
C-R22-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	336	735	ND (10)
C-R22-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.17	328	715	ND (10)
C-R22-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-R22-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-R22-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	330	---	---
C-R22-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	332	710	ND (10)
C-R22-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.17	336	705	ND (10)
C-R22-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.21	336	720	ND (10)
C-R22-S	19-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-R22-M	19-Jan-06	ND (0.2)	ND (1.0)	---	---	330	---	---
C-R22-D	19-Jan-06	ND (0.2)	ND (1.0)	---	---	336	---	---
C-R22-S	23-Mar-06	ND (0.2)	ND (1.0)	1,040	8.26	340	735	ND (10)
C-R22-M	23-Mar-06	ND (0.2)	ND (1.0)	1,040	8.29	340	725	ND (10)
C-R22-D	23-Mar-06	ND (0.2)	ND (1.0)	1,020	8.28	344	725	ND (10)
C-R22-S	15-Jun-06	ND (0.2)	ND (1.0)	966	8.14	349	680	ND (10)
C-R22-M	15-Jun-06	ND (0.2)	ND (1.0)	988	8.14	332	700	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-R22-D	15-Jun-06	ND (0.2)	ND (1.0)	954	8.02	375	700	ND (10)
C-R22-D	03-Oct-06	ND (0.2)	ND (1.0)	964	8.15	305	720	ND (10)
C-R22-M	03-Oct-06	ND (0.2)	ND (1.0)	975	8.16	313	690	ND (10)
C-R22-S	03-Oct-06	ND (0.2)	ND (1.0)	946	8.16	309	705	ND (10)
C-R27-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.14	340	625	ND (10)
C-R27-M	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.15	356	630	ND (10)
C-R27-D	13-Jul-05	ND (0.2)	ND (1.0)	1,100	8.13	348	635	ND (10)
C-R27-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.07	324	745	ND (10)
C-R27-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.22	320	730	ND (10)
C-R27-D	21-Sep-05	ND (0.2)	ND (1.0)	1,100	8.10	320	750	ND (10)
C-R27-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
C-R27-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	316	---	---
C-R27-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	332	---	---
C-R27-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	340	715	ND (10)
C-R27-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.18	357	700	ND (10)
C-R27-D	13-Dec-05	ND (0.2)	ND (1.0)	1,060	8.14	340	710	ND (10)
C-R27-S	19-Jan-06	ND (0.2)	ND (1.0)	---	---	338	---	---
C-R27-M	19-Jan-06	ND (0.2)	ND (1.0)	---	---	328	---	---
C-R27-D	19-Jan-06	ND (0.2)	ND (1.0)	---	---	316	---	---
C-R27-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.29	353	730	ND (10)
C-R27-S	15-Jun-06	ND (0.2)	ND (1.0)	965	8.14	340	690	ND (10)
C-R27-M	15-Jun-06	ND (0.2)	ND (1.0)	980	8.14	336	715	ND (10)
C-R27-D	15-Jun-06	ND (0.2)	ND (1.0)	976	8.14	328	665	ND (10)
C-R27-M	03-Oct-06	ND (0.2)	ND (1.0)	944	8.11	297	630	ND (10)
C-R27-S	03-Oct-06	ND (0.2)	ND (1.0)	931	8.10	333	615	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Hexavalent Chromium (µg/L)	Dissolved Total Chromium (µg/L)	Specific Conductance (µS/cm)	pH	Hardness mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
C-R27-D	03-Oct-06	ND (0.2)	ND (1.0)	946	8.11	297	615	ND (10)
C-TAZ-S	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.21	328	650	ND (10)
C-TAZ-M	13-Jul-05	ND (0.2)	ND (1.0)	1,080	8.17	348	655	ND (10)
C-TAZ-D	13-Jul-05	ND (0.2)	ND (1.0)	1,090	8.18	344	615	ND (10)
C-TAZ-S	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.12	316	710	ND (10)
C-TAZ-M	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.06	324	730	ND (10)
C-TAZ-D	21-Sep-05	ND (0.2)	ND (1.0)	1,110	8.13	320	705	ND (10)
C-TAZ-S	08-Nov-05	ND (0.2)	ND (1.0)	---	---	340	---	---
C-TAZ-M	08-Nov-05	ND (0.2)	ND (1.0)	---	---	324	---	---
C-TAZ-D	08-Nov-05	ND (0.2)	ND (1.0)	---	---	320	---	---
C-TAZ-S	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.15	344	715	ND (10)
C-TAZ-M	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.20	340	705	ND (10)
C-TAZ-D	13-Dec-05	ND (0.2)	ND (1.0)	1,070	8.21	340	730	ND (10)
C-TAZ-S	19-Jan-06	NA	ND (1.0)	---	---	324	---	---
C-TAZ-M	19-Jan-06	NA	ND (1.0)	---	---	332	---	---
C-TAZ-D	19-Jan-06	NA	ND (1.0)	---	---	340	---	---
C-TAZ-S	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.31	344	745	ND (10)
C-TAZ-M	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.31	344	715	ND (10)
C-TAZ-D	23-Mar-06	ND (0.2)	ND (1.0)	1,030	8.30	340	745	ND (10)
C-TAZ-S	15-Jun-06	ND (0.2)	ND (1.0)	958	8.08	340	680	ND (10)
C-TAZ-M	15-Jun-06	ND (0.2)	ND (1.0)	962	8.09	345	695	ND (10)
C-TAZ-D	15-Jun-06	ND (0.2)	ND (1.0)	972	8.11	353	730	ND (10)
C-TAZ-S	03-Oct-06	ND (0.2)	ND (1.0)	956	8.14	309	665	ND (10)
C-TAZ-D	03-Oct-06	ND (0.2)	ND (1.0)	926	8.15	329	640	ND (10)
C-TAZ-M	03-Oct-06	ND (0.2)	ND (1.0)	955	8.15	309	680	ND (10)

TABLE 5
In-Channel Surface Water COC and Additional Parameters Sampling Results, July 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

NOTES:

µg/L micrograms per liter
µS/cm microSiemens per centimeter
ND not detected at listed reporting limit
(---) data not collected or not available
NA not analyzed

Hexavalent chromium analysis method: SW 7199 (reporting limit 0.2 µg/L)

Other analysis methods: total chromium (dissolved concentrations, Methods SW 6020A and SW 6010B, reporting limit 1 µg/L for undiluted samples), specific conductance (EPA120.1), pH (EPA150.1), hardness (EPA130.2), total dissolved solids (EPA160.1), and total suspended solids (EPA160.2).

The sample ID's for the depth-specific surface water samples are:
S = shallow (1 foot from water surface)
M = middle (mid-point of water column)
D = deep (1 foot from river bottom)

In September and December 2005, river samples were not collected at C-MAR-S and C-MAR-D due to shallow water column at the location.

In January 2006, river samples from C-TAZ were not analyzed for hexavalent chromium due to holding time being exceeded from sudden illness of the courier. River samples were not collected at C-MAR-S and C-MAR-D due to shallow water column at location.

In March 2006, river samples were not collected at C-MAR-S, C-MAR-D, C-R27-S and C-R27-D due to shallow water column at locations.

In June 2006, river sample was not collected at C-MAR-M due to a shallow water column at the location.

In October 2006, river samples C-MAR-S and C-MAR-D were not collected due to a shallow water column at the location.

TABLE 6
Interim Measures Performance Monitoring Analytical Results, March 2004 through October 2006
PG&E Topock Groundwater and Surface Water 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
	11-Oct-05	1950	-7.2	-57.0	737	359	9.48	0.641	198	49.9	14.6	323	0.402	69.9
	15-Dec-05	1830	-7.1	-49.0	645	326	9.9	ND (1)	138	42.3	14.5	267	0.441	77.8
	10-Mar-06	1940	-7.2	-54.0	679	358	10.5	ND (0.5)	161	48.6	9.22	424	0.427	82.2
	05-May-06	1750	-8.2	-55.9	696	376	9.86	0.574	162	49.2	9.55	461	0.476	74.5
	03-Oct-06	1890	-8.1	-60.4	677	357	13	ND (5)	158	47.6	9.82	472	0.535	85
	03-Oct-06 FD	1840	-8.1	-60.5	669	352	12.9	ND (5)	154	45.9	9.51	466	0.515	80
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
	11-Oct-05	2400	-5.3	-48.0	887	484	8.87	0.731	170	23.7	15.2	500	0.718	82.3
	15-Dec-05	2340	-5.4	-40.0	813	404	9.65	ND (1)	136	21.4	14.8	406	0.709	82.7
	10-Mar-06	2500	-5.6	-50.3	861	475	9.94	ND (0.5)	171	27	7.75	597	0.803	92.5
	05-May-06	2260	-5.1	-46.4	927	522	9.99	ND (1)	193	32	10.8	577	0.716	82.5
	03-Oct-06	2320	-5.8	-51.5	863	456	13.4	ND (5)	202	34.4	10.9 J	568	0.874	90
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

TABLE 6
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Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-20-130	15-Jun-05	7790	-5	-48.0	3410	1230	11.1	ND (1)	352	23.2	31.3	2980	2.75	68.7
	07-Oct-05	7330	-5	-47.0	3010	1210	10.9	1.04 J	349	13.9	38.4	2070	2.41	72.4
	16-Dec-05	7860	-5.8	-43.0	3260	1000	10.7	ND (2.5)	324	16.3	44.4	1780	1.98	63.2
	10-Mar-06	8610	-5.5	-48.8	3370	1250	10.6	ND (0.5)	312	18.9	27.7	2730	2.03	74.5
	05-May-06	7700	-5.3	-47.2	3900	1280	8.95	ND (1)	349	20.3	27.7	2810	2.4	69.2
	18-Oct-06	8450	-6.3	-51.4	3680	1100	11.5	ND (5)	358	20.9	28	2870	2.28	70
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
	04-Oct-05	950	-8.2	-68.0	252	171	3.77	ND (0.5)	83.3	14.9	9.93	164	0.362	141
	04-Oct-05 FD	910	-8.3	-60.0	251	171	3.75	ND (0.5)	94.6	15.3	10.2	185	0.371	146
	14-Dec-05	838	-8.4	-55.0	224	158	3.74	ND (0.5)	75.5	14.5	9.8	143	0.396	153
	14-Dec-05 FD	896	-8.4	-50.0	219	155	3.75	ND (0.5)	73	14.1	9.71	151	0.382	156
	09-Mar-06	910	-8.4	-64.1	245	164	3.83	ND (0.5)	76.4	15.6	6.97	210	0.39	170
	03-May-06	907	-9	-59.4	272	172	3.95	ND (0.5)	78	17.3	7.38	222	0.418	150
	03-May-06 FD	924	-9	-61.0	274	173	3.94	ND (0.5)	79.7	17.8	7.53	245	0.431	155
	03-Oct-06	892	-8.9	-62.7	222	158	4.09	ND (0.5)	73.3	15	7.25	206	0.466	163
MW-26	03-Mar-04	1900	-6.7	-54.0	770	400	4.6	ND (0.5)	170	40	12	470	0.5	110
	14-May-04	9300 R	-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
	04-Oct-05	2120	-7.8	-68.0	779	372	4.88	0.601	166	40.4	19.8	352	0.526	109
	12-Dec-05	2610	-8.5	-55.0	788	372	4.88	0.546	162	39.9	20.3	349	0.613	99.7
	08-Mar-06	2070	-8.6	-60.4	772	324	4.9	ND (0.5)	155	38.1	11.7	434 J	0.621	121

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Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-26	01-May-06	2130	-8.9	-62.7	927	382	4.87	ND (0.5)	165	42	12.8	555	0.723	121
	03-Oct-06	2220	-8.8	-63.0	894	370	6.22	ND (2.5)	170	43.9	12.8	510	0.692	105
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
	18-Jul-05	---	-11.9	-98.0	81.9	228	ND (0.5)	ND (0.5)	96.1	30.1	4.27	94.8	ND (0.2)	160
	05-Oct-05	742	-11.8	-102.0	91.1	252	ND (0.5)	ND (0.5)	88.6	31.4	5.48	81	ND (0.2)	175
	14-Dec-05	1020	-11.7	-91.0	118	347	ND (0.5)	ND (0.5)	116	41.8	6.96	116	ND (0.2)	216
	06-Mar-06	664	-12.1	-90.9	89.7	231	ND (0.2)	ND (0.2)	89.1	28.8	4.9	103	ND (0.2)	385
	14-Jun-06	730	-12	-89.8	98.3	272	ND (0.5)	ND (0.5)	91.1	28.5	2.79 J	96.9	ND (0.2)	195
	03-Oct-06	600	-13.1	-96.6	90.8	261	ND (0.5)	ND (0.5)	102	34.5	6.45	113	ND (0.2)	160
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
	06-Oct-05	884	-11.7	-95.0	99.8	300	ND (0.5)	ND (0.5)	123	37	6.61	88.7	ND (0.2)	197
	16-Dec-05	1010	-11.4	-90.0	128	348	ND (0.5)	ND (0.5)	134	41.5	6.46	107	ND (0.2)	212
	09-Mar-06	746	-11.5	-93.9	84.4	225	ND (0.5)	ND (0.5)	98.5	27.5	4.15 J	88.5	ND (0.2)	244
	05-May-06	741	-11.4	-90.3	110	302	ND (0.5)	ND (0.5)	117	35.7	5.77	118	ND (0.2)	216
	11-Oct-06	1050	-12.2	-95.0	86.3	247	ND (0.5)	ND (0.5)	133	40.8	5.47	132	ND (0.2)	225
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
	07-Oct-05	36400	-8.5	-75.0	17600	4000	ND (0.5)	ND (10)	1020	842	93.6	7650	5.2	521

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Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-30-30	15-Dec-05	35700	-8.7	-59.0	19700	4070	ND (1)	3.13	1060	894	110	8540	6.14	504
	13-Mar-06	39700 J	-8.8	-70.5	18600	4530	ND (0.5)	ND (50)	1050	892	77.2	11300	4.62	650
	02-May-06	32400	-10.3	-70.7	15400	3300	ND (0.5)	ND (5)	882	828	59.4	10280	3.95	756
	10-Oct-06	29400	-9.4	-68.7	17800	4400	ND (2.5)	ND (2.5)	729	653	55	10200	4.32	550
MW-30-50	05-Mar-04	6100	-6.4	-58.0	3000	750	1.2	ND (5)	280	120	16	1600	0.9	280
	05-Mar-04 FD	5900	-6.6	-56.0	2900	730	1.2	ND (5)	290	120	15	1600	0.9	280
	14-May-04	6300	-7.7	-54.0	2700	800	3.5	ND (5)	270	100	15	1700	1.2	180
	14-May-04 FD	6500	-7.5	-54.0	2600	800	3.5	ND (5)	270	110	16	1700	1.1	180
	23-Sep-04	6600	-7.3	-58.0	3330	742	1.58	ND (10)	290	100	18	1800	0.9	240
	23-Sep-04 FD	6800	-6.7	-58.0	3220	694	1.64	ND (10)	310	110	19	1900	0.9	240
	15-Dec-04	6750	-7.9	-63.0	3040	716	ND (0.5)	1.14	378	117	36.5	1720	1.39	249
	15-Dec-04 FD	6690	-7.8	-64.0	2920	725	ND (0.5)	1.13	372	114	37.8	1700	1.43	249
	10-Mar-05	6470 J	-8.3	-68.0	4660	672	ND (0.5)	1.03	335	107	16.5	2040	1.15	324
	07-Oct-05	6860	-9.4	-79.0	3060	857	ND (0.5)	0.899 J	438	101	37	1780	1.27	252
	16-Dec-05	5850	-10.5	-65.0	2360	578	ND (0.5)	0.645	265	77.9	32.9	1260	1.19	212
	09-Mar-06	5380	-9.8	-83.5	2420	651	ND (0.5)	ND (0.5)	226	66.2	14.6	1640	1.18	275
	02-May-06	5420	-10.4	-73.6	2380	612	ND (0.5)	3.41	243	70.3	16.4	1750	1.22	261
	11-Oct-06	4170	-10.7	-82.2	1980	468	ND (0.5)	ND (0.5)	171	48.5	14	1370	1.11	290
	11-Oct-06 FD	3930	-11	-82.6	1810	462	ND (0.5)	ND (0.5)	163	46.1	14.1	1340	1.08	298
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
	06-Oct-05	1660	-8.6	-65.0	691	206	4.01	ND (0.5)	109	16.5	9.75	308	0.462	77.3
	13-Dec-05	1620	-8.7	-54.0	669	199	4.14	ND (0.5)	87	15.4	9.32	275	0.359	73
	15-Mar-06	1560 J	-8.6	-65.6	661	191	4.37	ND (0.5)	106	17.5	7.3	403	0.393	89.3
	15-Mar-06 FD	1640 J	-8.6	-64.9	662	192	4.34	ND (0.5)	101	16.8	6.94	391	0.383	81.9
	01-May-06	1630	-9.6	-63.2	691	209	4.58	ND (0.5)	118	20.1	7.78	467	0.449	79.6
	05-Oct-06	1620	-9.4	-66.3	687	205	5	ND (0.5)	113	20.6	9.6 J	325	0.464	80

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Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
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
	04-Oct-05	28800	-7.8	-65.0	14200	2420	ND (5)	6.19	1380 J	613 J	91.1 J	5400 J	4.75 J	733
	16-Dec-05	24600	-7.8	-61.0	12200	2140	ND (1)	3.48	1470	552	90.4	4950	4.16	861
	10-Mar-06	20900	-8.3	-65.5	10600	1970	ND (0.5)	ND (0.5)	1350	530	56.1	6440	3.54	432
	04-May-06	16900	-8.1	-64.9	9430	1380	ND (0.5)	2.35	937	445	46	4780	2.87	218
	02-Oct-06	46200 J	-8.6	-67.1	20200	3190	ND (2.5)	7.3	1870	1070	87	11300	6.34	660
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
	04-Oct-05	8340	-8.3	-70.0	3840	765	ND (0.5)	ND (5)	567	134	29.3	1530	1.26	208
	16-Dec-05	7660	-8.8	-63.0	3510	710	ND (1)	1.02	606	128	30	1580	1.25	219
	10-Mar-06	9230	-8.6	-74.0	4210	1010	ND (0.5)	ND (0.5)	654	129	19.2	2360	1.13	234
	04-May-06	9840	-9.1	-67.8	4960	1130	ND (0.5)	ND (0.5)	693	148	19.5	2800	1.38	218
	02-Oct-06	11200	-9.4	-71.4	5430	1050	ND (2.5)	ND (2.5)	839	165	23.9	3260	1.48	290
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
	15-Jul-05	---	-10.3	-84.0	2250	607	ND (0.5)	ND (0.5)	247	52	16.5	1420	1.02	242
	05-Oct-05	5150	-10.6	-88.0	2170	619	ND (0.5)	ND (0.5)	272	59.1	25.8	1230	1.2	232
	14-Dec-05	5100	-10.8	-74.0	2150	552	ND (0.5)	0.588	217	45	27.2	965	0.937	236

TABLE 6
Interim Measures Performance Monitoring Analytical Results, March 2004 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Monitoring Wells														
MW-34-55	08-Mar-06	4850	-10.8	-86.8	2080	593	ND (0.5)	ND (0.5)	256	54.2	13.5	1640	0.956	272
	03-May-06	4320	-11.5	-84.3	2070	500	ND (0.5)	ND (0.5)	198	44.8	11.1	1360	0.846	302
	04-Oct-06	1680 J	-12.2	-94.8	443	230	ND (0.5)	ND (0.5)	37.6	8.08	4.59	536	0.54	368
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
	05-Oct-05	10200	-10.1	-85.0	3880	1060	ND (0.5)	ND (0.5)	429	72.5	47.4	1660	1.57	302
	14-Dec-05	8800	-10.2	-71.0	3700	880	ND (0.5)	0.854	432	68.3	54.9	1710	1.54	297
	09-Mar-06	7830	-9.9	-86.8	3520	986	ND (0.5)	ND (0.5)	383	65.8	24	2420	1.49	313
	03-May-06	7950	-11.7	-77.6	3700	921	ND (0.5)	ND (0.5)	425	70.3	23.9	2480	1.38	297
	04-Oct-06	7080	-11.3	-81.8	3210	786	ND (0.5)	0.737	341	65.4	21.1	2170	1.31	268
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
	05-Oct-05	678	-11.6	-94.0	85.1	255	ND (0.5)	ND (0.5)	101	36.2	6.56	91.2	ND (0.2)	130
	16-Dec-05	718	-11.7	-87.0	87.9	253	ND (0.5)	ND (0.5)	85.5	29.5	5.99	75.6	ND (0.2)	126
	06-Mar-06	656	-11.8	-92.1	90.6	268	ND (0.5)	ND (0.5)	83.5	29.4	5.44 J	101	ND (0.2)	144
	03-May-06	567	-12.8	-93.9	93.1	267	ND (0.5)	ND (0.5)	87	31.1	3.12 J	106	ND (0.2)	139
	04-Oct-06	752 J	-12.2	-94.9	91.5	261	ND (0.5)	ND (0.5)	82.9	31.5	6.24 J	98.1	ND (0.2)	128
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

TABLE 6
Interim Measures Performance Monitoring Analytical Results, March 2004 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sample Date	Total Dissolved Solids	Oxygen 18	Deuterium	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium	Boron	Alkalinity
Surface Water Stations														
R-28	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
	05-Oct-05	672	-11.6	-94.0	85.5	255	ND (0.5)	ND (0.5)	85.7	30.4	6.3	77	ND (0.2)	122
	16-Dec-05	710	-11.5	-83.0	88.1	254	ND (0.5)	ND (0.5)	87.2	29.8	6.11	76.8	ND (0.2)	126
	06-Mar-06	675	-12.3	-93.4	91	270	ND (0.5)	ND (0.5)	76.6	26.6	5.22 J	91.5	ND (0.2)	146
	03-May-06	586	-13	-92.1	93.4	270	ND (0.5)	ND (0.5)	88.1	31.4	4.04 J	107	ND (0.2)	136
	04-Oct-06	644 J	-12.6	-95.3	90.9	259	ND (0.5)	ND (0.5)	84.2	32.1	6.17 J	96.5	ND (0.2)	133

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.

TABLE 7
Title 22 Metals, September 2004 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

		California MCL:	6	10 ^	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-10		10/3/2005	ND (2.0)	14.3	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**4900**	ND (10)	1.53	ND (0.2)	301	ND (20)	1.93	ND (1.0)	ND (1.0)	49.7	79.4
MW-10		12/12/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**3040**	ND (10)	ND (2.0)	ND (0.2)	168	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	40.2	ND (20)
MW-10		3/6/2006	ND (2.0)	8.45	59.5	ND (1.0)	ND (1.0)	ND (1.0)	**2120**	1.21	ND (1.0)	ND (0.2)	142	2.31	3.64	ND (1.0)	ND (1.0) J	41.3	10.1
MW-10		5/4/2006	ND (2.0)	8.31	58.1	ND (1.0)	ND (1.0)	ND (1.0)	**1780**	1.18	1.06	ND (0.2)	122	1.96	3.91	ND (1.0)	ND (1.0)	37.9	ND (10)
MW-10		10/12/2006	ND (2.0)	9.20	58.4	ND (1.0)	ND (1.0)	ND (1.0)	**2480**	ND (1.0)	ND (1.0)	ND (0.2)	169	2.31	3.64	ND (1.0)	ND (1.0)	42.1	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-11		10/3/2005	ND (2.0)	1.68	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**617**	ND (10)	ND (1.0)	ND (0.2)	16.4	ND (20)	5.31	ND (1.0)	ND (1.0)	6.30	ND (20)
MW-11		12/12/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**449**	ND (10)	ND (2.0)	ND (0.2)	9.40	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	8.30	ND (20)
MW-11		3/6/2006	ND (2.0)	1.64	39.8	ND (1.0)	ND (1.0)	ND (1.0)	**306**	1.22	ND (1.0)	ND (0.2)	8.08	ND (1.0)	5.79	ND (1.0)	ND (1.0)	8.94	12.1
MW-11		5/9/2006	ND (2.0)	1.72	39.5	ND (1.0)	ND (1.0)	ND (1.0)	**348 J**	ND (1.0)	ND (1.0)	ND (0.2)	9.28	ND (1.0)	5.73	ND (1.0)	ND (1.0)	8.76	ND (10)
MW-11		10/12/2006	ND (2.0)	1.65	41.4	ND (1.0)	ND (1.0)	ND (1.0)	**339**	ND (1.0)	ND (1.0)	ND (0.2)	8.81	ND (1.0)	6.17	ND (1.0)	ND (1.0)	8.71	ND (10)
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-12		9/16/2005	ND (5.0)	**103**	110	ND (3.0)	ND (3.0)	ND (3.0)	**618**	ND (5.0)	5.70	ND (0.2)	63.5	17.9	ND (10)	ND (3.0)	ND (15)	52.2	75.5
MW-12		10/4/2005	ND (2.0)	**146**	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**644**	ND (10)	ND (1.0)	ND (0.2)	76.9	ND (20)	3.92	ND (1.0)	ND (1.0)	41.6	ND (20)
MW-12	FD	10/4/2005	ND (2.0)	**151**	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**613**	ND (10)	ND (1.0)	ND (0.2)	79.1	ND (20)	4.06	ND (1.0)	ND (1.0)	39.7	ND (20)
MW-12		12/13/2005	ND (3.0)	**157**	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**602**	ND (10)	ND (2.0)	ND (0.2)	62.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	45.9	ND (20)
MW-12		4/18/2006	ND (2.0)	**127**	48.2	ND (1.0)	ND (1.0)	ND (1.0)	**1300**	ND (1.0)	ND (1.0)	ND (0.2)	52.8	3.91	4.30	ND (1.0) J	ND (1.0)	40.8	ND (10)
MW-12		5/1/2006	ND (2.0)	**126**	49.3	ND (1.0)	ND (1.0)	ND (1.0)	**1280**	ND (1.0)	ND (1.0)	ND (0.2)	50.1	2.31	4.42	ND (1.0)	ND (1.0)	39.7	ND (10)
MW-12		10/4/2006	ND (2.0)	**84.8**	81.1	ND (1.0)	ND (1.0)	ND (1.0)	**1790**	4.24	ND (1.0)	ND (0.2)	35.9	1.72	4.56	ND (1.0)	ND (1.0)	30.4	ND (10)
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-20-70		10/11/2005	ND (2.0)	2.04	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**5930**	ND (10)	ND (1.0)	ND (0.2)	23.0	ND (20)	8.81	ND (1.0)	ND (1.0)	117	ND (20)
MW-20-70		12/15/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**4310**	ND (10)	ND (2.0)	ND (0.2)	21.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	10.2	ND (20)
MW-20-70		3/10/2006	ND (2.0)	2.20	36.5	ND (1.0)	ND (1.0)	ND (1.0)	**4510**	1.07	ND (1.0)	ND (0.2)	21.8	ND (1.0)	9.15	ND (1.0)	ND (1.0)	10.7	11.2
MW-20-70		5/5/2006	ND (2.0)	2.01	39.9	ND (1.0)	ND (1.0)	ND (1.0)	**4670**	ND (1.0)	ND (1.0)	ND (0.2)	22.4	ND (1.0)	10.1	ND (1.0)	ND (1.0)	9.66	ND (10) J

TABLE 7
Title 22 Metals, September 2004 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

	California MCL:	6	10 ^	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-20-70	10/3/2006	ND (2.0)	1.92	37.8	ND (1.0)	ND (1.0)	ND (1.0)	**3390**	ND (1.0)	ND (1.0)	ND (0.2)	28.9	ND (1.0)	11.1	ND (1.0)	ND (1.0)	9.61	ND (10)
MW-20-70 FD	10/3/2006	ND (2.0)	1.79	37.3	ND (1.0)	ND (1.0)	ND (1.0)	**3330**	ND (1.0)	ND (1.0)	ND (0.2)	27.1	ND (1.0)	10.9	ND (1.0)	ND (1.0)	9.26	ND (10)
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-20-130	10/7/2005	ND (2.0)	6.58	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**10700**	ND (5.0)	ND (1.0)	ND (0.2)	41.3	ND (21)	10.8	ND (1.0)	ND (1.0)	ND (3.0)	ND (20)
MW-20-130	12/16/2005	ND (3.0)	5.80	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**9340**	ND (10)	ND (2.0)	ND (0.2)	32.6	ND (20)	18.4	ND (5.0)	ND (1.0)	10.1	445
MW-20-130	3/10/2006	ND (2.0)	6.68	24.9	ND (1.0)	ND (1.0)	ND (1.0)	**10600**	3.73	ND (1.0)	ND (0.2)	46.7	ND (1.0)	12.0	ND (1.0)	ND (1.0)	5.32	ND (10)
MW-20-130	5/5/2006	ND (2.0)	6.32	26.3	ND (1.0)	ND (1.0)	ND (1.0)	**13700**	ND (1.0)	ND (1.0)	ND (0.2)	47.7	ND (1.0)	11.8	ND (1.0)	ND (1.0)	3.91	14.7 J
MW-20-130	10/18/2006	ND (2.0)	6.20	26.8	ND (1.0)	ND (1.0)	ND (1.0)	**16400**	ND (1.0)	ND (1.0)	ND (0.2)	45.5	ND (1.0)	13.6	ND (1.0)	ND (1.0)	3.87	10.2
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-25	10/4/2005	ND (2.0)	1.94	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**1470**	ND (10)	ND (1.0)	ND (0.2)	3.49	ND (20)	2.38	ND (1.0)	ND (1.0)	6.00	ND (20)
MW-25 FD	10/4/2005	ND (2.0)	2.15	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**1480**	ND (10)	ND (1.0)	ND (0.2)	3.53	ND (20)	2.35	ND (1.0)	ND (1.0)	6.60	ND (20)
MW-25	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**1370**	ND (10)	ND (2.0)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	9.70	ND (20)
MW-25 FD	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**1350**	ND (10)	ND (2.0)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	9.40	ND (20)
MW-25	3/9/2006	ND (2.0)	2.39	40.8	ND (1.0)	ND (1.0)	ND (1.0)	**1430**	ND (1.0)	ND (1.0)	ND (0.2)	3.34	1.58	2.38	ND (1.0)	ND (1.0)	11.8	ND (10)
MW-25	5/3/2006	ND (2.0)	2.12	42.0	ND (1.0)	ND (1.0)	ND (1.0)	**1310**	ND (1.0)	ND (1.0)	ND (0.2)	3.35	1.25	2.64	ND (1.0)	ND (1.0)	11.6	ND (10)
MW-25 FD	5/3/2006	ND (2.0)	2.07	43.2	ND (1.0) J	ND (1.0)	ND (1.0)	**1310**	ND (1.0)	ND (1.0)	ND (0.2)	3.39	1.36	2.57	ND (1.0)	ND (1.0)	12.0	ND (10)
MW-25	10/3/2006	ND (2.0)	2.08	39.6	ND (1.0)	ND (1.0)	ND (1.0)	**1150**	ND (1.0)	ND (1.0)	ND (0.2)	3.50	3.62	2.37	ND (1.0)	ND (1.0)	11.2	ND (10)
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-34-55	10/5/2005	ND (2.0)	2.01	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.2)	15.7	ND (20)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	22.7
MW-34-55	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (1.0)	ND (10)	ND (2.0)	ND (0.2)	12.7	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	7.00	ND (20)
MW-34-55	3/8/2006	ND (2.0)	2.08	59.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	16.3	4.77	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
MW-34-55	5/3/2006	ND (2.0)	2.43	46.5	ND (1.0) J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	16.8	2.74	ND (1.0)	ND (1.0)	ND (1.0)	1.15	14.1
MW-34-55	10/4/2006	ND (2.0)	4.83	18.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	25.2	1.22	ND (1.0)	ND (1.0)	ND (1.0)	2.37	ND (10)
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-34-80	10/5/2005	ND (2.0)	2.06	ND (300)	ND (1.0)	ND (1.0)	1.23	ND (1.0)	ND (10)	ND (1.0)	ND (0.2)	10.8	ND (20)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (20)
MW-34-80	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (1.0)	ND (10)	ND (2.0)	ND (0.2)	10.2	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	13.5	ND (20)

TABLE 7
Title 22 Metals, September 2004 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

	California MCL:	6	10 ^	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-34-80	3/9/2006	ND (2.0)	2.19	39.6	ND (1.0)	ND (1.0)	1.08	ND (1.0)	7.27	ND (1.0)	ND (0.2)	11.4	1.58	ND (1.0)	ND (1.0)	ND (1.0)	2.94	ND (10)
MW-34-80	5/3/2006	ND (2.0)	1.91	39.6	ND (1.0) J	ND (1.0)	1.34	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	12.2	1.25	ND (1.0)	ND (1.0)	ND (1.0)	2.44	31.0
MW-34-80	10/4/2006	ND (2.0)	1.68	33.3	ND (1.0)	ND (1.0)	1.22	ND (1.0)	1.10	ND (1.0)	ND (0.2)	13.0	1.66	ND (1.0)	ND (1.0)	ND (1.0)	2.34	ND (10)
MW-37D	9/24/2004	ND (5.0)	ND (10)	65.0	ND (3.0)	ND (3.0)	ND (3.0)	**1220**	8.50	ND (5.0)	ND (0.2)	47.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	17.2
MW-37D FD	9/24/2004	ND (5.0)	ND (10)	65.9	ND (3.0)	ND (3.0)	ND (3.0)	**1160**	9.60	ND (5.0)	ND (0.2)	46.3	ND (5.0)	10.0	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-37D	12/14/2004	ND (5.0)	ND (10)	46.4	ND (3.1)	ND (3.1)	ND (3.1)	**1490**	ND (5.0)	ND (2.1)	ND (0.2)	43.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	31.4 J	33.0 J
MW-37D FD	12/14/2004	ND (5.0)	ND (10)	49.9	ND (3.1)	ND (3.1)	ND (3.1)	**1440**	ND (5.0)	ND (2.1)	ND (0.2)	44.6	8.30	ND (10)	ND (3.1)	ND (15)	20.5 J	91.8 J
MW-37D	3/11/2005	ND (5.0)	ND (10)	53.9	ND (3.1)	ND (3.1)	ND (3.1)	**1540**	ND (5.0)	ND (2.1)	ND (0.2)	34.1	9.20	ND (10)	ND (3.1)	ND (15)	326	38.7
MW-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
MW-37D	10/4/2005	ND (2.0)	3.42	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	**1970**	ND (10)	ND (1.0)	ND (0.2)	45.5	ND (20)	3.24	ND (1.0)	ND (1.0)	6.00	ND (20)
MW-37D	12/14/2005	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	**1610**	ND (10)	ND (2.0)	ND (0.2)	36.6	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	14.5	ND (20)
MW-37D	3/13/2006	ND (2.0)	3.97	41.0	ND (1.0)	ND (1.0)	ND (1.0)	**1860**	2.12	ND (1.0)	ND (0.2)	34.0	ND (1.0)	3.32	ND (1.0)	ND (1.0)	7.17	ND (10)
MW-37D	5/3/2006	ND (2.0)	3.79	44.0	ND (1.0)	ND (1.0)	1.06	**1750 J**	ND (1.0)	ND (1.0)	ND (0.2)	47.5	ND (1.0)	3.66	ND (1.0)	ND (1.0)	6.25	ND (10)
MW-37D	10/13/2006	ND (2.0)	3.67	42.2	ND (1.0)	ND (1.0)	ND (1.0)	**1160**	ND (1.0)	ND (1.0)	ND (0.2)	48.3	ND (1.0)	3.00	ND (1.0)	ND (1.0)	6.08	ND (10)

NOTES:

ND not detected at listed reporting limit
FD field duplicate sample
J concentration or reporting limit estimated by laboratory or data validation
^ U.S. Environmental Protection Agency (USEPA) MCL as of January 23, 2006

The USEPA MCL for arsenic has been lowered to 10 ug/L as of January 2006. The California MCL of 50 ug/L is currently under review as of the writing of this monitoring report. The regulation package is in the early stages, with the adoption process likely to occur later in 2006 or in 2007.

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 SW6010B, SW6020A, and SW7470A.

Analytes detected above MCL are in bold.

Groundwater samples from MW-34-55 in June 2005 were not analyzed for Title 22 metals due to a chain of custody error.

Monitoring well MW-12 was sampled in April rather than March 2006 due to inaccessibility from drilling operations in March.

TABLE 8
Manual Water Level Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water 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	89	536.56	03-Oct-05	12:17 PM	80.22	0.20	456.31
			07-Mar-06	11:17 AM	81.00	0.20	455.54
			14-Jun-06	5:20 AM	79.61	0.20	456.92
			12-Oct-06	7:54 AM	80.05	0.20	456.48
MW-10	97	530.65	03-Oct-05	11:41 AM	74.46	0.21	456.13
			12-Dec-05	10:39 AM	75.09	0.21	455.51
			06-Mar-06	11:30 AM	75.28	0.21	455.32
			04-May-06	9:12 AM	74.36	0.18	456.23
			14-Jun-06	5:16 AM	73.90	0.18	456.69
			12-Oct-06	9:05 AM	74.35	0.20	456.24
MW-11	86	522.61	03-Oct-05	10:17 AM	66.65	0.15	455.89
			12-Dec-05	9:56 AM	67.30	0.15	455.25
			06-Mar-06	12:25 PM	67.34	0.15	455.21
			09-May-06	12:47 PM	66.31	0.16	456.24
			14-Jun-06	5:08 AM	65.90	0.16	456.65
			12-Oct-06	1:14 PM	66.37	0.16	456.18
MW-12	50	484.01	16-Sep-05	9:05 AM	28.35	0.22	455.61
			04-Oct-05	7:30 AM	28.52	0.23	455.44
			13-Dec-05	11:00 AM	29.09	0.23	454.87
			18-Apr-06	11:30 AM	28.76	0.19	455.20
			01-May-06	8:05 AM	28.46	0.19	455.50
			14-Jun-06	5:42 AM	27.92	0.19	456.03
			04-Oct-06	7:35 AM	28.46	0.19	455.50
MW-13	52	488.64	04-Oct-05	10:46 AM	33.10	0.13	455.48
			13-Dec-05	1:26 PM	33.10	0.13	455.48
			08-Mar-06	8:45 AM	33.35	0.13	455.23
			08-Mar-06	2:10 PM	32.78	0.13	455.80
			02-May-06	7:52 AM	32.38	0.13	456.20
			14-Jun-06	6:04 AM	32.03	0.13	456.55
			02-Oct-06	12:33 PM	32.74	0.13	455.84
MW-14	134	570.99	06-Oct-05	9:03 AM	115.15	0.10	455.77
			15-Dec-05	11:55 AM	115.58	0.10	455.35
			08-Mar-06	8:28 AM	115.33	0.10	455.60
			09-Mar-06	12:14 PM	115.16	0.10	455.77
			02-May-06	9:32 AM	114.41	0.10	456.52
			14-Jun-06	6:23 AM	114.00	0.10	456.92
			02-Oct-06	11:48 AM	114.58	0.10	456.35
MW-15	203	641.52	06-Oct-05	7:21 AM	185.25	0.10	456.20
			07-Mar-06	1:15 PM	185.35	0.10	456.11
			08-Mar-06	8:45 AM	185.52	0.10	455.94
			14-Jun-06	8:03 AM	184.18	0.10	457.27
			05-Oct-06	11:26 AM	184.51	0.10	456.95
MW-16	218	657.31	06-Oct-05	7:58 AM	200.76	0.09	456.48
			07-Mar-06	2:08 PM	200.80	0.09	456.45
			08-Mar-06	8:52 AM	200.98	0.10	456.27

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Manual Water Level Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water 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-16	218	657.31	14-Jun-06	7:53 AM	199.94	0.10	457.31
			01-Nov-06	11:30 AM	200.05	0.10	457.20
MW-17	154	589.96	05-Oct-05	10:27 AM	133.27	0.11	456.62
			14-Jun-06	6:45 AM	132.49	0.12	457.40
			02-Oct-06	8:23 AM	132.68	0.12	457.21
MW-18	107	545.32	06-Oct-05	8:32 AM	89.06	0.09	456.18
			08-Mar-06	7:59 AM	89.33	0.09	455.93
			09-Mar-06	11:35 AM	89.06	0.09	456.20
			14-Jun-06	6:38 AM	88.03	0.09	457.23
			04-Oct-06	10:53 AM	88.41	0.09	456.85
MW-19	66	499.92	04-Oct-05	9:45 AM	45.03	0.13	454.83
			12-Dec-05	2:03 PM	45.97	0.13	453.89
			08-Mar-06	8:59 AM	45.16	0.13	454.70
			09-Mar-06	2:05 PM	44.97	0.13	454.89
			02-May-06	2:20 PM	44.19	0.13	455.67
			14-Jun-06	6:02 AM	43.64	0.13	456.24
			02-Oct-06	1:15 PM	44.75	0.14	455.11
MW-20-70	70	500.15	11-Oct-05	9:33 AM	45.96	0.20	454.12
			15-Dec-05	1:29 PM	47.29	0.20	452.80
			10-Mar-06	12:53 PM	46.53	0.20	453.56
			05-May-06	8:41 AM	45.60	0.24	454.50
			13-Jun-06	9:00 AM	44.92	0.24	455.17
			03-Oct-06	9:15 AM	46.30	0.15	453.78
MW-20-100	101	500.58	11-Oct-05	8:42 AM	46.04	0.25	454.42
			15-Dec-05	12:53 PM	48.13	0.25	452.33
			10-Mar-06	10:42 AM	46.27	0.25	454.19
			05-May-06	9:59 AM	46.40	0.23	454.05
			03-Oct-06	8:15 AM	46.90	0.21	453.55
MW-20-130	132	500.66	07-Oct-05	9:35 AM	47.65	0.63	453.05
			16-Dec-05	8:38 AM	49.11	0.60	451.60
			10-Mar-06	11:45 AM	47.91	0.56	452.75
			05-May-06	10:15 AM	47.00	0.66	453.70
			18-Oct-06	12:15 PM	48.09	0.78	452.70
MW-21	58	505.55	04-Oct-05	8:46 AM	50.10	0.75	455.46
			13-Dec-05	12:24 PM	50.65	0.75	454.91
			08-Mar-06	9:21 AM	50.01	0.83	455.56
			09-Mar-06	2:37 PM	50.51	0.70	455.05
			01-May-06	10:13 AM	50.14	0.83	455.43
			14-Jun-06	5:45 AM	49.61	0.83	455.96
			03-Oct-06	2:02 PM	49.80	0.83	455.77
MW-22	12	460.72	04-Oct-05	9:41 AM	6.17	2.20	454.64
			16-Dec-05	12:17 PM	6.93	2.20	453.86
			15-Mar-06	9:13 AM	6.45	2.20	454.35
			03-May-06	12:34 PM	5.62	2.20	455.19
			13-Oct-06	12:03 PM	6.20	2.12	454.59

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Manual Water Level Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water 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-23	81	507.33	04-Oct-05	8:29 AM	54.08	1.16	453.37
			14-Dec-05	11:58 AM	52.64	1.16	454.82
			08-Mar-06	1:38 PM	52.77	1.16	454.69
			01-May-06	9:31 AM	51.83	1.22	455.64
			04-Oct-06	6:36 AM	52.10	1.22	455.37
MW-24A	127	567.16	03-Oct-05	9:45 AM	111.25	0.22	455.87
			06-Mar-06	1:18 PM	111.24	0.22	455.88
			14-Jun-06	5:00 AM	110.51	0.23	456.61
			03-Oct-06	12:15 PM	111.00	0.24	456.12
MW-24B	215	564.76	03-Oct-05	9:02 AM	109.10	0.82	455.83
			07-Mar-06	11:05 AM	109.53	0.83	455.40
			03-Oct-06	11:14 AM	108.67	0.96	456.35
MW-24BR	441	563.95	15-Dec-05	2:25 PM	108.20	0.93	456.41
			16-Mar-06	9:00 AM	114.53	0.94	450.15
			09-May-06	2:16 PM	103.33	1.00	461.50
			01-Jun-06	7:20 AM	102.10	1.00	462.67
			01-Nov-06	7:50 AM	107.65	0.95	456.96
MW-25	107	542.90	04-Oct-05	10:18 AM	87.58	0.11	455.25
			14-Dec-05	1:07 PM	88.30	0.11	454.54
			08-Mar-06	8:53 AM	88.07	0.11	454.77
			09-Mar-06	12:52 PM	87.97	0.09	454.87
			03-May-06	1:28 PM	87.30	0.11	455.54
			14-Jun-06	6:07 AM	86.71	0.11	456.13
			03-Oct-06	7:24 AM	87.27	0.11	455.57
MW-26	70	502.22	04-Oct-05	9:05 AM	47.18	0.23	454.97
			12-Dec-05	1:16 PM	47.85	0.23	454.32
			08-Mar-06	12:29 PM	47.65	0.23	454.52
			08-Mar-06	8:16 AM	47.72	0.23	454.45
			01-May-06	10:15 AM	46.81	0.23	455.35
			14-Jun-06	5:48 AM	46.33	0.23	455.83
			03-Oct-06	2:07 PM	47.00	0.21	455.16
MW-27-20	14	460.56	05-Oct-05	9:20 AM	5.80	0.06	454.74
			14-Dec-05	2:12 PM	7.40	0.06	453.15
			06-Mar-06	10:19 AM	5.59	0.07	454.96
			01-May-06	2:09 PM	5.15	0.05	455.40
			14-Jun-06	10:30 AM	4.11	0.05	456.44
			03-Oct-06	7:30 AM	5.59	0.07	454.96
MW-27-60	59	461.38	05-Oct-05	7:53 AM	6.71	0.87	454.86
			15-Dec-05	10:59 AM	8.80	0.87	452.79
			07-Mar-06	10:24 AM	6.74	0.77	454.83
			01-May-06	9:29 AM	5.81	0.80	455.74
			03-Oct-06	8:44 AM	6.60	0.83	454.99
MW-27-85	80	460.99	08-Sep-05	8:21 AM	6.14	1.13	455.31
			05-Oct-05	8:35 AM	6.65	1.20	454.78
			03-Nov-05	10:22 AM	6.95	1.20	454.53

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Monitoring Wells							
MW-27-85	80	460.99	15-Dec-05	10:20 AM	8.58	1.20	452.89
			12-Jan-06	1:48 PM	8.12	1.20	453.36
			08-Feb-06	12:41 PM	7.60	1.20	453.91
			06-Mar-06	11:12 AM	6.68	1.20	454.84
			03-Apr-06	1:50 PM	6.95	1.10	454.51
			01-May-06	12:51 PM	6.32	1.10	455.14
			14-Jun-06	9:29 AM	5.08	1.10	456.38
			12-Jul-06	5:50 AM	5.15	1.10	456.23
			08-Aug-06	5:48 AM	6.65	1.10	454.78
			06-Sep-06	10:30 AM	6.70	1.10	454.67
			13-Oct-06	10:55 AM	7.56	1.35	453.98
MW-28-25	21	466.85	06-Oct-05	8:13 AM	11.96	0.08	454.86
			16-Dec-05	10:00 AM	13.56	0.08	453.27
			09-Mar-06	9:19 AM	11.65	0.09	455.19
			05-May-06	9:07 AM	10.55	0.06	456.28
			11-Oct-06	11:33 AM	12.39	0.07	454.44
MW-28-90	98	467.51	09-Sep-05	7:11 AM	12.14	0.68	455.60
			06-Oct-05	7:21 AM	12.72	0.58	454.93
			02-Nov-05	2:30 PM	13.72	0.58	453.95
			16-Dec-05	9:15 AM	14.33	0.58	453.32
			10-Jan-06	10:39 AM	14.08	0.58	453.58
			09-Feb-06	12:28 PM	13.92	0.58	453.75
			06-Mar-06	2:02 PM	13.24	0.58	454.44
			06-Apr-06	11:14 AM	12.04	0.41	455.54
			05-May-06	8:33 AM	11.67	0.41	455.92
			15-Jun-06	8:33 AM	11.18	0.41	456.42
			13-Jul-06	7:15 AM	10.93	0.41	456.62
			11-Aug-06	5:29 AM	11.53	0.41	456.07
			08-Sep-06	7:34 AM	13.40	0.41	454.15
			13-Oct-06	8:14 AM	12.82	0.57	454.87
MW-29	42	485.21	04-Oct-05	1:45 PM	30.11	0.32	455.09
			12-Dec-05	10:19 AM	31.23	0.32	453.97
			13-Apr-06	9:47 AM	29.47	0.31	455.73
			05-May-06	9:55 AM	29.21	0.31	455.99
			13-Oct-06	7:10 AM	30.25	0.27	454.95
MW-30-30	27	468.12	07-Oct-05	10:15 AM	14.73	3.00	453.73
			15-Dec-05	2:23 PM	14.73	3.00	453.61
			13-Mar-06	11:55 AM	14.27	3.00	454.08
			02-May-06	8:56 AM	13.07	3.65	455.36
			10-Oct-06	12:51 PM	14.09	3.65	454.32
MW-30-50	53	468.81	07-Oct-05	9:19 AM	14.42	0.77	454.47
			16-Dec-05	11:47 AM	15.82	0.77	453.07
			09-Mar-06	12:35 PM	14.72	0.67	454.15
			02-May-06	8:05 AM	13.30	0.61	455.56
			11-Oct-06	7:17 AM	14.40	0.62	454.46

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Monitoring Wells							
MW-31-60	64	496.81	06-Oct-05	12:35 PM	42.20	0.16	454.55
			13-Dec-05	2:15 PM	43.20	0.16	453.55
			08-Mar-06	9:10 AM	42.31	0.15	454.44
			15-Mar-06	2:52 PM	42.43	0.16	454.32
			01-May-06	11:13 AM	41.42	0.15	455.33
			14-Jun-06	5:50 AM	40.74	0.15	456.01
			05-Oct-06	2:20 PM	42.18	0.19	454.58
MW-31-135	135	498.11	06-Oct-05	12:56 PM	44.33	0.55	453.74
			14-Dec-05	8:26 AM	45.21	0.53	452.90
			15-Mar-06	9:43 AM	44.34	0.56	453.78
			08-May-06	9:02 AM	43.00	0.59	455.14
			05-Oct-06	1:10 PM	44.38	0.64	453.79
MW-32-20	20	461.51	04-Oct-05	11:44 AM	7.21	1.50	454.41
			16-Dec-05	2:59 PM	8.31	1.50	453.29
			10-Mar-06	10:42 AM	7.32	2.25	454.35
			04-May-06	11:39 AM	6.29	0.55	455.24
			02-Oct-06	11:56 AM	7.28	1.80	454.34
MW-32-35	37	461.63	04-Oct-05	10:57 AM	7.27	0.73	454.43
			16-Dec-05	2:16 PM	8.57	0.73	453.12
			10-Mar-06	11:08 AM	7.03	0.73	454.67
			04-May-06	10:37 AM	6.13	0.56	455.54
			02-Oct-06	12:55 PM	7.31	1.01	454.45
MW-33-40	42	487.38	06-Oct-05	8:56 AM	32.50	0.37	454.87
			12-Dec-05	2:10 PM	33.80	0.37	453.57
			09-Mar-06	11:22 AM	32.60	0.70	454.79
			04-May-06	2:50 PM	31.90	0.70	455.49
			06-Oct-06	7:26 AM	32.15	0.35	455.22
MW-33-90	88	487.55	06-Oct-05	9:51 AM	32.84	0.58	454.73
			13-Dec-05	12:09 PM	33.85	0.58	453.74
			08-Mar-06	9:45 AM	32.70	0.58	454.89
			03-May-06	2:30 PM	32.13	0.62	455.47
			06-Oct-06	7:06 AM	32.34	0.57	455.23
MW-33-150	155	487.77	09-Sep-05	6:11 AM	32.58	1.13	455.75
			06-Oct-05	11:54 AM	33.70	1.09	454.58
			02-Nov-05	1:49 PM	33.85	1.09	454.45
			12-Dec-05	1:33 PM	34.57	1.08	453.72
			10-Jan-06	12:10 PM	34.63	1.11	453.69
			07-Feb-06	11:50 AM	33.10	1.11	455.22
			08-Mar-06	8:50 AM	33.50	1.15	454.86
			06-Apr-06	1:06 PM	32.82	1.15	455.54
			03-May-06	1:20 PM	32.85	1.09	455.44
			16-Jun-06	5:35 AM	31.63	1.09	456.62
			13-Jul-06	8:39 AM	32.04	1.09	456.21
			11-Aug-06	6:23 AM	32.30	1.09	456.01
			08-Sep-06	5:46 AM	33.45	1.09	454.79

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Monitoring Wells							
MW-33-150	155	487.77	06-Oct-06	11:58 AM	33.43	1.16	454.93
MW-33-210	223	487.25	06-Sep-05	9:05 AM	32.70	1.38	455.73
			06-Oct-05	11:02 AM	33.35	1.25	454.83
			02-Nov-05	1:05 PM	33.54	1.25	454.71
			12-Dec-05	11:29 AM	34.13	1.25	454.14
			10-Jan-06	1:10 PM	34.41	1.35	453.97
			07-Feb-06	10:40 AM	33.78	1.35	454.60
			06-Mar-06	12:25 PM	33.31	1.35	455.07
			13-Apr-06	12:30 PM	32.68	1.34	455.69
			05-May-06	6:43 AM	31.93	1.34	456.44
			16-Jun-06	6:22 AM	31.64	1.34	456.68
			13-Jul-06	8:15 AM	31.78	1.34	456.54
			08-Aug-06	10:30 AM	32.62	1.34	455.76
			08-Sep-06	5:00 AM	33.07	1.34	455.25
			06-Oct-06	10:31 AM	33.06	1.34	455.31
MW-34-55	57	460.95	05-Oct-05	12:03 PM	6.80	0.55	454.21
			14-Dec-05	10:15 AM	7.84	0.55	453.19
			08-Mar-06	12:04 PM	6.56	0.45	454.45
			03-May-06	7:05 AM	4.75	0.55	456.31
			04-Oct-06	8:13 AM	6.01	0.55	455.05
MW-34-80	84	461.20	07-Sep-05	7:11 AM	5.66	0.89	455.86
			05-Oct-05	12:00 PM	7.03	0.82	454.42
			03-Nov-05	8:24 AM	6.50	0.73	454.90
			14-Dec-05	9:10 AM	7.83	0.73	453.58
			11-Jan-06	1:13 PM	7.89	0.93	453.65
			08-Feb-06	9:58 AM	7.43	0.93	454.12
			09-Mar-06	9:58 AM	6.63	0.75	454.84
			03-Apr-06	11:25 AM	7.12	0.75	454.35
			03-May-06	8:28 AM	5.15	0.75	456.32
			14-Jun-06	6:59 AM	4.57	0.75	456.90
			12-Jul-06	7:33 AM	5.27	0.75	456.14
			08-Aug-06	8:27 AM	5.88	0.75	455.53
			06-Sep-06	8:24 AM	6.65	0.75	454.75
			04-Oct-06	11:32 AM	7.79	0.95	453.72
MW-34-100	117	460.96	07-Sep-05	8:41 AM	5.98	1.07	455.55
			20-Sep-05	6:48 AM	5.60	1.07	455.86
			05-Oct-05	11:00 AM	6.90	1.01	454.61
			03-Nov-05	9:25 AM	6.74	1.01	454.78
			16-Nov-05	10:50 AM	7.15	1.01	454.37
			30-Nov-05	10:35 AM	7.23	1.01	454.25
			14-Dec-05	12:48 PM	8.24	1.01	453.25
			28-Dec-05	8:30 AM	8.78	1.01	452.72
			12-Jan-06	8:58 AM	7.66	1.14	453.96
			23-Jan-06	9:45 AM	7.65	1.14	453.99
			08-Feb-06	11:45 AM	7.81	1.14	453.84
			08-Mar-06	1:35 PM	7.43	1.05	454.17

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Monitoring Wells							
MW-34-100	117	460.96	23-Mar-06	9:04 AM	7.39	1.05	454.08
			03-Apr-06	12:53 PM	7.48	1.05	454.12
			03-May-06	10:37 AM	6.40	1.05	455.20
			17-May-06	12:22 PM	6.24	1.05	455.23
			31-May-06	7:49 AM	5.03	1.05	456.55
			14-Jun-06	8:23 AM	5.09	1.05	456.50
			28-Jun-06	8:20 AM	5.40	1.05	456.16
			12-Jul-06	6:50 AM	5.53	1.05	455.94
			26-Jul-06	6:00 AM	5.31	1.05	456.22
			08-Aug-06	7:07 AM	6.05	1.05	455.46
			28-Aug-06	2:12 PM	7.80	1.05	453.65
			06-Sep-06	7:00 AM	6.65	1.05	454.81
			20-Sep-06	9:16 AM	7.39	1.30	454.28
			04-Oct-06	8:50 AM	7.11	1.30	454.56
MW-35-60	57	484.19	07-Oct-05	11:56 AM	29.35	0.44	454.82
			14-Dec-05	9:45 AM	30.47	0.44	453.71
			08-Mar-06	9:05 AM	28.84	0.44	455.34
			14-Mar-06	1:46 PM	29.22	0.41	454.96
			01-May-06	12:05 PM	28.25	0.44	455.93
			14-Jun-06	5:52 AM	27.23	0.44	456.95
			12-Oct-06	1:21 PM	29.60	0.42	454.58
MW-35-135	159	483.57	07-Oct-05	11:06 AM	28.98	0.70	454.75
			14-Dec-05	10:26 AM	30.02	0.70	453.78
			10-Mar-06	12:27 PM	29.70	0.59	453.97
			02-May-06	3:12 PM	28.14	0.73	455.64
			12-Oct-06	12:25 PM	29.05	0.76	454.78
MW-36-20	23	469.26	03-Oct-05	12:12 PM	14.96	0.71	454.32
			15-Dec-05	12:27 PM	16.56	0.71	452.71
			01-May-06	8:23 AM	13.77	1.16	455.54
			02-Oct-06	8:24 AM	14.68	1.21	454.62
MW-36-40	43	469.61	03-Oct-05	10:25 AM	15.06	0.64	454.60
			15-Dec-05	10:42 AM	17.00	0.64	452.65
			07-Mar-06	11:42 AM	15.34	0.83	454.35
			01-May-06	11:24 AM	14.35	1.05	455.39
			05-Oct-06	12:01 PM	15.46	0.84	454.24
MW-36-50	53	469.60	03-Oct-05	12:34 PM	15.00	0.44	454.60
			15-Dec-05	9:57 AM	17.01	0.44	452.59
			07-Mar-06	10:50 AM	15.14	0.60	454.51
			01-May-06	2:21 PM	14.85	0.50	454.77
			05-Oct-06	7:19 AM	14.76	0.51	454.86
MW-36-70	72	469.25	03-Oct-05	10:59 AM	14.78	0.53	454.52
			15-Dec-05	1:07 PM	16.64	0.53	452.65
			09-Feb-06	12:30 PM	15.78	0.58	453.53
			07-Mar-06	9:54 AM	14.75	0.58	454.57
			06-Apr-06	10:18 AM	13.78	0.58	455.54

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Monitoring Wells							
MW-36-70	72	469.25	01-May-06	8:23 AM	13.65	0.58	455.66
			13-Jun-06	7:36 AM	13.21	0.58	456.10
			11-Jul-06	10:07 AM	13.91	0.58	455.39
			09-Aug-06	8:21 AM	14.02	0.58	455.31
			07-Sep-06	5:45 AM	14.25	0.58	455.05
			02-Oct-06	9:27 AM	14.75	0.37	454.47
MW-36-90	92	469.61	08-Sep-05	7:30 AM	14.74	1.16	455.28
			03-Oct-05	9:17 AM	9.25	0.98	460.69
			02-Nov-05	11:10 AM	16.07	0.98	453.84
			15-Dec-05	11:13 AM	17.45	0.98	452.47
			12-Jan-06	12:10 PM	17.12	0.98	452.78
			09-Feb-06	12:13 PM	16.92	0.98	453.00
			07-Mar-06	12:25 PM	16.22	0.98	453.71
			04-Apr-06	2:05 PM	14.53	0.90	455.36
			01-May-06	12:19 PM	15.50	0.90	454.35
			13-Jun-06	6:53 AM	14.22	0.90	455.65
			11-Jul-06	8:35 AM	15.50	0.90	454.36
			09-Aug-06	6:30 AM	15.00	0.90	454.90
			07-Sep-06	6:52 AM	15.01	0.90	454.85
			02-Oct-06	12:00 PM	16.10	0.50	453.55
MW-36-100	110	469.64	08-Sep-05	6:41 AM	14.81	1.30	455.43
			05-Oct-05	9:57 AM	15.35	1.10	454.71
			03-Nov-05	11:03 AM	15.54	1.10	454.55
			13-Dec-05	2:02 PM	17.06	1.10	453.03
			12-Jan-06	12:56 PM	17.28	1.10	452.78
			08-Feb-06	1:12 PM	17.20	1.10	452.89
			13-Mar-06	2:05 PM	16.94	1.10	453.15
			05-Apr-06	11:01 AM	16.36	1.07	453.72
			02-May-06	3:00 PM	15.64	1.07	454.43
			15-Jun-06	9:28 AM	14.64	1.07	455.41
			13-Jul-06	4:55 AM	14.35	1.07	455.70
			09-Aug-06	5:39 AM	15.04	1.07	455.06
			08-Sep-06	8:20 AM	16.62	1.07	453.42
			11-Oct-06	9:53 AM	16.29	1.00	453.71
MW-37D	227	486.19	04-Oct-05	11:45 AM	31.25	0.89	455.29
			14-Dec-05	1:40 PM	31.92	0.89	454.64
			13-Mar-06	10:40 AM	31.70	0.89	454.86
			03-May-06	2:40 PM	30.68	1.15	456.24
			13-Oct-06	9:19 AM	31.02	1.04	455.73
MW-37S	87	485.97	04-Oct-05	11:43 AM	31.00	0.25	454.82
			14-Dec-05	2:26 PM	31.83	0.25	454.00
			13-Mar-06	10:39 AM	31.50	0.25	454.33
			04-May-06	1:22 PM	30.38	0.30	455.47
			13-Oct-06	10:57 AM	38.20	0.27	447.65
MW-38D	191	525.31	07-Oct-05	7:34 AM	70.45	1.24	455.37
			10-Mar-06	8:40 AM	70.95	1.40	455.01

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Monitoring Wells							
MW-38D	191	525.31	12-Oct-06	10:40 AM	70.14	1.52	455.93
MW-38S	98	525.51	07-Oct-05	8:27 AM	70.18	0.24	455.26
			10-Mar-06	9:18 AM	70.70	0.24	454.74
			14-Jun-06	5:12 AM	69.43	0.24	456.01
			12-Oct-06	12:26 PM	69.79	0.24	455.65
MW-39-40	42	468.02	04-Oct-05	7:40 AM	13.50	0.38	454.50
			16-Dec-05	10:30 AM	15.33	0.38	452.67
			07-Mar-06	2:28 PM	13.94	0.34	454.06
			02-May-06	7:10 AM	12.36	0.41	455.65
			05-Oct-06	11:55 AM	13.98	0.52	454.05
MW-39-50	55	467.93	04-Oct-05	10:14 AM	13.86	0.85	454.16
			16-Dec-05	9:36 AM	15.33	0.85	452.79
			12-Jan-06	9:57 AM	15.04	0.85	453.00
			08-Mar-06	9:50 AM	13.74	0.85	454.30
			02-May-06	8:27 AM	12.65	0.90	455.41
			05-Oct-06	9:59 AM	13.80	0.74	454.20
MW-39-60	66	468.00	04-Oct-05	11:03 AM	14.16	0.90	453.99
			16-Dec-05	8:52 AM	15.51	0.90	452.65
			08-Mar-06	1:12 PM	14.31	0.80	453.82
			02-May-06	8:30 AM	12.95	1.01	455.26
			05-Oct-06	9:07 AM	14.00	0.88	454.16
MW-39-70	72	468.02	04-Oct-05	8:21 AM	14.19	0.85	453.99
			16-Dec-05	11:02 AM	15.79	0.85	452.38
			10-Feb-06	10:57 AM	15.20	0.66	452.91
			08-Mar-06	12:25 PM	14.59	0.66	453.52
			06-Apr-06	8:37 AM	13.40	0.90	454.81
			02-May-06	7:00 AM	13.20	0.90	455.02
			14-Jun-06	5:47 AM	12.35	0.90	455.87
			12-Jul-06	6:40 AM	13.08	0.90	455.12
			10-Aug-06	7:54 AM	13.53	0.90	454.69
			07-Sep-06	10:40 AM	13.23	0.90	454.96
			05-Oct-06	11:55 AM	14.50	0.72	453.63
MW-39-80	83	467.92	06-Sep-05	6:45 AM	13.36	0.90	454.79
			04-Oct-05	9:03 AM	14.23	1.03	453.96
			02-Nov-05	10:42 AM	14.55	1.03	453.65
			15-Dec-05	2:02 PM	15.74	1.03	452.46
			12-Jan-06	10:35 AM	15.79	1.03	452.41
			10-Feb-06	11:18 AM	15.18	1.03	453.02
			08-Mar-06	10:53 AM	14.48	1.03	453.73
			06-Apr-06	8:35 AM	13.40	1.03	454.82
			02-May-06	8:28 AM	13.33	1.03	454.88
			14-Jun-06	6:10 AM	12.35	1.03	455.88
			12-Jul-06	5:43 AM	12.99	1.03	455.20
			10-Aug-06	9:35 AM	13.73	1.03	454.50
			07-Sep-06	9:11 AM	13.03	1.03	455.16

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Monitoring Wells							
MW-39-80	83	467.92	05-Oct-06	9:59 AM	13.94	0.95	454.22
MW-39-100	118	468.01	06-Sep-05	7:48 AM	13.62	1.40	455.11
			04-Oct-05	12:50 PM	14.79	1.20	453.73
			02-Nov-05	9:32 AM	14.68	1.20	453.88
			13-Dec-05	2:50 PM	15.66	1.20	452.89
			12-Jan-06	11:25 AM	16.01	1.30	452.62
			08-Feb-06	2:05 PM	15.52	1.30	453.12
			13-Mar-06	1:18 PM	15.70	1.30	452.93
			05-Apr-06	11:51 AM	14.40	1.20	454.17
			02-May-06	1:41 PM	14.16	1.20	454.42
			14-Jun-06	11:00 AM	12.83	1.20	455.76
			13-Jul-06	5:41 AM	13.03	1.20	455.50
			10-Aug-06	7:11 AM	13.69	1.20	454.89
			08-Sep-06	9:00 AM	14.92	1.20	453.60
			11-Oct-06	8:53 AM	14.25	1.30	454.39
MW-40D	266	566.08	05-Oct-05	8:48 AM	110.90	0.95	455.46
			13-Dec-05	9:36 AM	111.25	0.95	455.12
			08-Mar-06	9:03 AM	107.73	1.11	458.82
			08-Mar-06	11:31 AM	107.73	0.99	458.69
			02-May-06	7:41 AM	110.42	1.11	456.12
			05-Oct-06	9:05 AM	110.50	1.11	456.04
MW-40S	134	566.04	05-Oct-05	9:38 AM	110.30	0.12	455.65
			13-Dec-05	8:38 AM	110.86	0.12	455.10
			08-Mar-06	9:03 AM	108.36	0.13	457.59
			08-Mar-06	9:54 AM	108.36	0.12	457.59
			03-May-06	9:50 AM	109.86	0.13	456.09
			14-Jun-06	6:59 AM	109.43	0.13	456.52
			05-Oct-06	10:05 AM	109.97	0.13	455.98
MW-41D	313	479.42	05-Oct-05	11:38 AM	24.55	1.35	456.36
			16-Dec-05	10:34 AM	25.08	1.35	455.84
			15-Mar-06	11:15 AM	24.70	1.25	456.01
			05-May-06	7:24 AM	23.82	1.30	456.99
			04-Oct-06	12:17 PM	24.24	1.36	456.67
MW-41M	192	479.83	05-Oct-05	11:37 AM	24.40	0.98	455.91
			16-Dec-05	11:44 AM	25.14	0.98	455.17
			13-Mar-06	1:35 PM	24.66	0.90	455.55
			05-May-06	12:23 PM	23.70	1.12	456.77
			05-Oct-06	6:28 AM	24.08	0.97	456.21
MW-41S	62	480.07	05-Oct-05	11:36 AM	24.58	0.28	455.41
			16-Dec-05	12:30 PM	25.57	0.28	454.43
			08-Mar-06	8:37 AM	24.75	0.50	455.31
			13-Mar-06	2:36 PM	24.72	0.25	455.27
			05-May-06	1:39 PM	23.70	0.50	456.35
			14-Jun-06	6:18 AM	23.34	0.50	456.71
			05-Oct-06	7:30 AM	24.28	0.29	455.72

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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-42-30	32	463.81	07-Oct-05	8:40 AM	9.34	1.04	454.57
			15-Dec-05	1:07 PM	11.28	1.04	452.62
			07-Mar-06	12:14 PM	9.63	0.98	454.27
			02-May-06	10:14 AM	8.64	0.70	455.20
			03-Oct-06	10:54 AM	9.53	0.88	454.35
MW-42-55	56	463.87	07-Oct-05	7:58 AM	9.32	1.08	454.77
			15-Dec-05	12:43 PM	11.25	1.08	452.83
			07-Mar-06	1:07 PM	9.78	0.92	454.26
			02-May-06	11:07 AM	8.03	1.02	456.05
			03-Oct-06	11:40 AM	9.68	1.05	454.40
MW-42-65	80	463.37	07-Oct-05	7:24 AM	8.86	1.09	454.86
			15-Dec-05	12:11 PM	10.77	1.04	452.92
			07-Mar-06	2:35 PM	9.38	1.17	454.38
			02-May-06	11:47 AM	8.42	1.17	455.32
			03-Oct-06	12:20 PM	9.32	1.21	454.45
MW-43-25	27	462.54	04-Oct-05	8:48 AM	7.90	0.07	454.61
			16-Dec-05	2:17 PM	9.56	0.07	452.96
			10-Mar-06	8:34 AM	7.26	0.09	455.26
			04-May-06	9:11 AM	6.36	0.09	456.16
			02-Oct-06	9:23 AM	7.70	0.08	454.81
MW-43-75	77	462.71	08-Sep-05	9:45 AM	7.95	0.91	455.05
			04-Oct-05	8:25 AM	8.22	0.93	454.75
			03-Nov-05	12:02 PM	8.74	0.93	454.28
			16-Dec-05	2:07 PM	9.89	0.93	453.09
			11-Jan-06	11:00 AM	9.32	0.96	453.73
			10-Feb-06	9:20 AM	8.65	0.96	454.41
			10-Mar-06	9:16 AM	7.69	0.96	455.38
			03-Apr-06	10:17 AM	8.13	0.89	454.90
			04-May-06	7:45 AM	6.45	0.89	456.59
			02-Oct-06	7:46 AM	8.81	0.91	454.19
MW-43-90	102	462.76	08-Sep-05	9:41 AM	8.15	1.31	455.28
			04-Oct-05	7:52 AM	8.36	1.20	454.93
			03-Nov-05	12:30 PM	9.04	1.20	454.31
			16-Dec-05	1:00 PM	10.05	1.20	453.24
			11-Jan-06	9:07 AM	9.43	1.42	454.09
			10-Feb-06	9:47 AM	9.68	1.42	453.85
			10-Mar-06	9:48 AM	8.05	1.42	455.50
			03-Apr-06	9:32 AM	8.30	1.27	455.15
			04-May-06	8:29 AM	6.90	1.27	456.57
			02-Oct-06	8:45 AM	8.22	1.37	455.24
MW-44-70	70	471.88	09-Mar-06	2:47 AM	18.70	0.48	453.21
			23-Mar-06	10:56 AM	17.80	0.48	454.11
			05-Apr-06	2:03 PM	16.58	0.48	455.33
			04-May-06	9:50 AM	16.33	0.48	455.58
			13-Jun-06	6:57 AM	15.60	0.48	456.30

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Monitoring Wells							
MW-44-70	70	471.88	15-Jun-06	7:44 AM	15.55	0.48	456.35
		471.90	04-Oct-06	2:49 PM	17.95	0.65	454.05
MW-44-115	114	471.99	14-Mar-06	12:55 PM	19.39	0.80	452.85
			22-Mar-06	1:35 PM	18.82	0.80	453.40
			04-Apr-06	1:15 PM	16.89	0.80	455.36
			20-Apr-06	12:55 PM	17.30	0.80	454.96
			26-Apr-06	11:06 AM	16.21	0.80	456.06
			04-May-06	11:40 AM	17.36	0.80	454.90
			10-May-06	12:25 PM	17.37	0.80	454.90
			17-May-06	9:46 AM	16.74	0.80	455.48
			31-May-06	11:27 AM	17.28	0.80	454.99
			13-Jun-06	9:34 AM	16.69	0.80	455.58
			28-Jun-06	10:08 AM	16.70	0.80	455.57
			12-Jul-06	9:19 AM	17.00	0.80	455.19
			26-Jul-06	9:17 AM	16.90	0.80	455.38
			09-Aug-06	8:56 AM	17.30	0.80	454.97
			23-Aug-06	9:40 AM	17.68	0.80	454.59
			07-Sep-06	5:57 AM	17.51	0.80	454.68
			21-Sep-06	10:19 AM	17.94	1.02	454.40
		472.01	05-Oct-06	7:04 AM	17.72	1.02	454.71
MW-44-125	129	471.99	09-Mar-06	1:48 PM	19.10	0.59	453.03
			22-Mar-06	12:20 PM	18.20	0.59	453.92
			05-Apr-06	9:38 AM	16.29	0.59	455.85
			20-Apr-06	8:56 AM	16.80	0.59	455.32
			26-Apr-06	8:33 AM	15.75	0.59	456.38
			04-May-06	6:48 AM	16.39	0.59	455.74
			10-May-06	9:03 AM	16.61	0.59	455.49
			17-May-06	8:15 AM	16.15	0.59	455.91
			31-May-06	8:58 AM	16.53	0.59	455.59
			28-Jun-06	9:15 AM	16.25	0.59	455.89
			11-Jul-06	8:45 AM	16.97	0.59	455.05
			26-Jul-06	7:18 AM	16.38	0.59	455.75
			09-Aug-06	6:40 AM	16.73	0.59	455.40
			28-Aug-06	9:50 AM	17.70	0.59	454.37
			07-Sep-06	6:30 AM	17.41	0.59	454.61
			20-Sep-06	12:36 PM	18.53	0.96	453.78
		472.04	05-Oct-06	7:20 AM	17.38	0.96	455.07
MW-45-095a	97	470.16	24-Mar-06	8:48 AM	17.12	0.86	453.32
MW-45-095b	97	469.65	24-Mar-06	10:36 AM	17.93	0.86	452.01
MW-46-175	182	482.20	14-Mar-06	11:42 AM	29.45	1.09	455.15
			24-Mar-06	8:50 AM	28.20	1.09	456.42
			07-Apr-06	8:55 AM	27.22	1.09	455.78
		482.16	04-May-06	1:18 PM	27.62	1.02	455.24
			18-May-06	12:19 PM	27.36	1.02	455.41
			31-May-06	12:43 PM	27.23	1.02	455.65
			15-Jun-06	6:29 AM	26.41	1.02	456.51

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Monitoring Wells							
MW-46-175	182	482.16	30-Jun-06	12:48 PM	26.75	1.02	455.98
			12-Jul-06	10:15 AM	26.78	1.02	455.95
			27-Jul-06	7:00 AM	26.75	1.02	456.16
			09-Aug-06	10:31 AM	27.60	1.02	455.30
			25-Aug-06	12:10 PM	27.75	1.02	455.15
			07-Sep-06	9:30 AM	27.97	1.02	454.75
			21-Sep-06	8:35 AM	27.70	1.32	455.36
			05-Oct-06	11:40 AM	28.33	1.32	454.89
MW-46-205	225	482.25	14-Mar-06	10:25 AM	29.94	1.33	455.13
			24-Mar-06	10:23 AM	28.58	1.33	456.49
			07-Apr-06	8:35 AM	23.40	1.33	460.24
		482.23	04-May-06	2:45 PM	27.95	1.25	455.53
			15-Jun-06	5:30 AM	26.72	1.25	456.79
			13-Jul-06	6:24 AM	26.93	1.25	456.39
			10-Aug-06	8:14 AM	27.62	1.25	455.87
			07-Sep-06	10:39 AM	28.11	1.25	455.19
			05-Oct-06	1:25 PM	28.62	1.48	455.19
MW-47-55	55	483.87	23-Mar-06	1:30 PM	29.12	0.26	454.69
			16-May-06	9:20 AM	27.45	0.26	456.36
			10-Oct-06	11:50 AM	28.90	0.24	454.92
MW-47-115	115	484.06	23-Mar-06	12:31 PM	30.16	0.94	454.11
			16-May-06	9:20 AM	27.94	0.94	456.33
			10-Oct-06	10:45 AM	29.25	0.99	455.10
MW-48	138	486.22	05-Jun-06	10:03 AM	29.10	0.95	457.26
			06-Oct-06	11:30 AM	59.39	1.09	427.01
MW-49-135	137	484.02	25-Apr-06	10:55 AM	28.43	0.70	455.79
			18-May-06	8:50 AM	27.93	1.11	456.59
			12-Oct-06	7:57 AM	29.22	1.05	455.29
MW-49-275	275	483.95	25-Apr-06	1:30 PM	29.37	1.03	455.37
			18-May-06	10:05 AM	29.32	1.61	456.40
			12-Oct-06	8:10 AM	30.24	1.70	455.90
MW-49-365	367	484.01	26-Apr-06	12:45 PM	30.85	2.60	458.00
			16-May-06	9:50 AM	30.86	2.59	458.33
			12-Oct-06	8:06 AM	31.83	2.64	457.28
MW-50-095	96	496.55	09-May-06	7:14 AM	40.50	0.35	455.92
			24-May-06	1:49 PM	39.65	0.35	456.81
			10-Oct-06	9:07 AM	41.52	0.36	454.95
MW-50-200	205	496.45	09-May-06	7:16 AM	41.02	1.48	456.27
			24-May-06	1:08 PM	41.47	1.48	456.03
		496.48	10-Oct-06	7:32 AM	42.02	1.48	455.53
MW-51	113	501.56	30-May-06	10:48 AM	44.98	0.79	456.61
			06-Oct-06	6:30 AM	46.58	0.64	455.02
OW-3D	274	558.63	06-Oct-05	10:12 AM	102.14	0.45	456.26
			09-Mar-06	8:30 AM	102.41	0.45	456.00

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Monitoring Wells							
OW-3D	274	558.63	06-Oct-06	9:30 AM	101.74	0.47	456.69
OW-3M	202	558.90	06-Oct-05	11:06 AM	102.48	0.33	456.23
			09-Mar-06	9:17 AM	102.61	0.33	456.09
			12-Oct-06	9:28 AM	102.08	0.35	456.62
OW-3S	118	558.58	06-Oct-05	11:53 AM	102.18	0.13	456.35
			08-Mar-06	8:07 AM	102.53	0.11	456.00
			09-Mar-06	9:55 AM	102.33	0.11	456.20
			14-Jun-06	6:41 AM	101.18	0.11	457.34
			12-Oct-06	11:20 AM	101.65	0.11	456.87
PE-1	97	469.65	03-Oct-05	9:49 AM	15.20	0.75	454.68
			13-Dec-05	8:50 AM	16.42	0.75	453.43
PGE-6	181	563.32	12-Oct-05	5:53 AM	107.34	0.28	455.84
PGE-7	332	563.89	13-Oct-05	9:37 AM	108.11	1.00	456.52
TW-1	240	620.55	11-Oct-05	10:43 AM	164.53	0.35	455.87
TW-2S	102	499.05	14-Jun-06	8:30 AM	38.88	0.28	460.08
TW-4	255	484.11	18-May-06	8:49 AM	28.71	1.12	456.02
			05-Jun-06	11:30 AM	28.67	1.12	455.95
			09-Oct-06	6:59 AM	29.42	1.12	455.30
TW-5	153	496.30	10-May-06	11:12 AM	41.20	0.70	455.08
			01-Jun-06	9:14 AM	40.43	0.70	455.94
			09-Oct-06	11:36 AM	41.32	0.70	454.96
Other Wells not in GMP							
CW-1D	300	566.46	06-Jun-06	8:45 AM	96.82	0.80	470.01
			10-Oct-06	12:57 PM	109.09	0.55	457.34
CW-1M	190	566.07	11-Oct-06	7:16 AM	109.31	0.33	456.64
CW-2D	355	549.43	07-Jun-06	9:12 AM	92.40	0.82	457.51
			11-Oct-06	8:03 AM	93.11	0.93	457.04
CW-2M	202	549.45	11-Oct-06	6:57 AM	93.10	0.39	456.24
CW-3D	340	534.14	06-Jun-06	5:40 AM	77.14	1.01	457.89
			11-Oct-06	1:38 PM	77.60	0.97	457.32
CW-3M	222	534.10	07-Jun-06	6:30 AM	77.00	0.49	457.03
			10-Oct-06	1:30 PM	77.73	0.50	456.33
CW-4D	303	518.55	06-Jun-06	6:34 AM	61.32	0.91	457.84
			11-Oct-06	11:42 AM	61.75	0.91	457.39
CW-4M	170	518.55	06-Jun-06	7:44 AM	61.22	0.39	457.20
			11-Oct-06	10:43 AM	61.80	0.35	456.59
MW-1	217	661.76	14-Jun-06	8:35 AM	205.16	0.04	456.56
MW-3	205	650.51	08-Mar-06	8:19 AM	193.80	0.09	456.67
MW-4	176	625.73	08-Mar-06	8:29 AM	170.05	0.07	455.66
			14-Jun-06	8:51 AM	168.76	0.07	456.94
MW-5	186	635.69	08-Mar-06	8:23 AM	179.68	0.09	455.99

TABLE 8
Manual Water Level Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water 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							
MW-5	186	635.69	14-Jun-06	8:41 AM	178.41	0.09	457.25
MW-6	195	642.84	08-Mar-06	8:36 AM	186.74	0.04	456.07
			14-Jun-06	8:56 AM	185.54	0.04	457.26
MW-7	185	631.91	08-Mar-06	8:33 AM	176.48	0.07	455.40
			14-Jun-06	8:47 AM	175.20	0.07	456.67
MW-8	180	627.54	08-Mar-06	8:26 AM	171.37	0.07	456.14
			14-Jun-06	8:46 AM	170.10	0.07	457.40
OW-1D	277	550.36	14-Mar-06	8:50 AM	93.55	0.48	456.72
			06-Jun-06	6:06 AM	92.32	0.50	457.98
			31-Aug-06	7:29 AM	92.85	0.50	457.33
			12-Oct-06	7:25 AM	93.10	0.52	457.23
OW-1M	186	550.36	13-Mar-06	12:18 PM	93.90	0.40	456.36
			06-Jun-06	7:45 AM	92.86	0.47	457.43
			31-Aug-06	5:43 AM	93.30	0.47	456.95
			10-Oct-06	11:55 AM	93.56	0.47	456.75
OW-1S	114	550.15	08-Mar-06	8:17 AM	94.28	0.14	455.83
			15-Mar-06	1:04 PM	94.10	0.15	456.01
			06-Jun-06	9:12 AM	92.97	0.16	457.11
			14-Jun-06	6:30 AM	92.85	0.16	457.23
			31-Aug-06	8:30 AM	93.26	0.16	456.83
			10-Oct-06	10:41 AM	93.61	0.15	456.47
OW-2D	340	549.01	14-Mar-06	2:33 PM	92.50	0.52	456.47
			07-Jun-06	6:32 AM	90.45	0.53	458.50
			31-Aug-06	12:02 PM	90.96	0.53	457.79
			11-Oct-06	7:50 AM	92.05	0.47	456.82
OW-2M	210	548.52	14-Mar-06	1:15 PM	92.38	0.42	456.14
			07-Jun-06	5:08 AM	90.61	0.50	457.86
			30-Aug-06	1:30 PM	91.40	0.50	457.00
			10-Oct-06	9:50 AM	91.80	0.47	456.65
OW-2S	121	548.75	08-Mar-06	8:15 AM	92.96	0.12	455.71
			15-Mar-06	12:02 PM	92.79	0.12	455.87
			06-Jun-06	10:18 AM	91.62	0.13	457.04
			14-Jun-06	6:31 AM	91.55	0.13	457.11
			08-Sep-06	5:00 AM	92.06	0.13	456.60
			10-Oct-06	8:59 AM	92.33	0.11	456.33
OW-5D	350	552.35	15-Mar-06	8:23 AM	96.50	0.51	455.62
			07-Jun-06	10:22 AM	94.56	0.59	457.66
			30-Aug-06	9:49 AM	94.09	0.59	458.13
			11-Oct-06	12:26 PM	94.39	0.49	457.69
OW-5M	250	551.75	15-Mar-06	8:28 AM	96.00	0.57	455.77
			07-Jun-06	8:58 AM	94.13	0.64	457.63
			30-Aug-06	8:23 AM	94.04	0.64	457.71
			11-Oct-06	10:26 AM	94.35	0.54	457.29
OW-5S	110	551.75	08-Mar-06	8:20 AM	95.78	0.11	455.91

TABLE 8
Manual Water Level Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water 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							
OW-5S	110	551.75	15-Mar-06	8:32 AM	95.80	0.11	455.89
			07-Jun-06	8:10 AM	94.57	0.13	457.12
			14-Jun-06	6:33 AM	94.49	0.13	457.20
			31-Aug-06	10:32 AM	94.76	0.13	456.92
			10-Oct-06	7:45 AM	95.10	0.11	456.60
Surface Water Stations							
I-3	---	460.30	05-Oct-05	7:53 AM	5.37	0.00	454.93
			11-Jan-06	12:10 PM	6.85	0.00	453.45
			06-Mar-06	9:15 AM	5.21	0.00	455.09
			01-May-06	8:19 AM	4.07 T	0.00	456.23 T
			06-Sep-06	12:00 PM	6.18	0.00	454.12
			04-Oct-06	1:28 PM	6.58	0.00	453.72
RRB	---	476.63	05-Oct-05	9:59 AM	22.14	0.00	454.49
			06-Mar-06	1:40 PM	21.90	0.00	454.73
			03-May-06	6:40 AM	19.60	0.00	457.03
			06-Sep-06	1:15 PM	22.58	0.00	454.05
			04-Oct-06	1:00 PM	22.73	0.00	453.90

NOTES:

BGS below ground surface
AMSL above mean sea level
BMP below well measure point
(---) data not collected or available.
T Results from transducers presented to fill water level data gaps

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

Well depths rounded off to whole foot.

Salinity used to adjust water level to freshwater equivalent. Salinity values have been averaged in accordance with the Performance Monitoring Program.

I-3 water elevation data not available from 9/1/05 to 10/4/05 due to transducer damage from river.

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-9	03-Oct-05	2,550	30.00	7.49	142	5.85
	07-Mar-06	3,180	28.01	6.96	227	6.63
	12-Oct-06	3,490	28.69	7.24	166	11.39
MW-10	03-Oct-05	1,610	29.10	7.73	136	5.23
	12-Dec-05	2,470	28.20	7.46	165	5.94
	06-Mar-06	2,720	27.03	7.18	227	4.90
	04-May-06	4,500	29.01	7.48	146	4.98
	12-Oct-06	3,090	28.61	7.43	113	7.59
MW-11	03-Oct-05	2,190	29.70	7.42	142	5.91
	12-Dec-05	2,460	27.80	7.16	181	8.10
	06-Mar-06	2,600	28.66	7.26	235	6.98
	09-May-06	3,530	32.20	7.35	116	7.69
	12-Oct-06	2,930	29.66	7.27	90	9.58
MW-12	16-Sep-05	3,290	29.00	8.49	---	6.58
	04-Oct-05	3,040	28.20	8.63	55	6.13
	13-Dec-05	3,260	27.74	9.49	97	6.99
	18-Apr-06	3,460	28.60	---	91	7.28
	01-May-06	3,840	28.10	8.05	---	---
	04-Oct-06	---	29.26	8.40	128	5.22
MW-13	04-Oct-05	1,910	28.44	7.74	16	6.41
	13-Dec-05	2,000	28.05	8.43	76	6.73
	08-Mar-06	---	28.67	7.45	163	6.90
	02-May-06	1,990	28.70	7.18	80	4.17
	02-Oct-06	2,020	28.02	7.23	44	---
MW-14	06-Oct-05	1,660	28.53	7.82	26	7.12
	15-Dec-05	1,640	27.60	7.74	106	7.54
	09-Mar-06	1,990	28.63	7.43	183	7.58
	02-May-06	1,610	29.20	7.36	49	3.92
	02-Oct-06	1,580	28.55	7.29	15	---
MW-15	06-Oct-05	1,670	29.54	7.26	-19	8.11
	07-Mar-06	2,590	29.84	7.53	81	7.73
	05-Oct-06	2,110	29.69	7.50	16	8.93
MW-16	06-Oct-05	1,210	29.29	7.81	-74	6.79
	07-Mar-06	1,360	29.26	7.80	62	7.44
	01-Nov-06	1,640	32.89	7.72	52	5.34
MW-17	05-Oct-05	1,590	30.70	7.63	72	6.51
	09-Mar-06	2,440	30.94	7.44	133	6.52
	02-Oct-06	1,870	30.12	7.26	79	---
MW-18	06-Oct-05	1,420	28.56	7.68	62	8.08
	09-Mar-06	1,860	28.92	7.36	152	8.08
	04-Oct-06	1,820	30.81	7.69	30	7.72
MW-19	04-Oct-05	2,150	28.50	7.75	30	6.87
	12-Dec-05	2,140	26.90	7.51	153	7.68
	09-Mar-06	3,850	28.42	7.33	227	7.43

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-19	02-May-06	2,450	29.00	7.33	38	3.30
	02-Oct-06	2,450	28.59	7.26	44	---
MW-20-70	11-Oct-05	3,330	28.66	7.53	151	6.90
	15-Dec-05	3,210	27.60	7.59	149	7.97
	10-Mar-06	5,830	28.01	7.49	228	7.32
	05-May-06	3,050	29.32	7.74	97	7.21
	03-Oct-06	3,460	28.69	7.48	117	7.47
MW-20-100	11-Oct-05	4,140	28.96	7.45	157	1.54
	15-Dec-05	3,980	28.00	7.62	140	3.03
	10-Mar-06	4,360	28.46	7.33	198	3.77
	05-May-06	3,760	29.80	7.72	98	5.20
	03-Oct-06	4,340	29.09	7.42	106	3.46
MW-20-130	07-Oct-05	12,300	30.31	7.65	53	2.46
	16-Dec-05	11,700	27.35	7.99	123	3.32
	10-Mar-06	14,500	28.67	7.48	213	3.49
	05-May-06	12,400	30.76	7.74	97	2.21
	18-Oct-06	19,500	30.41	7.91	78	2.68
MW-21	05-Oct-05	11,400	28.26	7.24	-149	2.42
	14-Dec-05	12,100	26.22	7.94	-90	5.35
	09-Mar-06	15,100	26.71	6.81	---	4.20
	02-May-06	11,500	30.20	6.94	-77	---
	03-Oct-06	15,900	28.50	6.91	-67	6.90
MW-22	04-Oct-05	35,500	32.96	6.66	-86	2.51
	16-Dec-05	31,200	24.64	6.65	-90	2.31
	15-Mar-06	34,800	19.89	6.12	---	8.54
	03-May-06	34,200	23.52	7.05	-88	4.14
	13-Oct-06	42,200	28.07	6.62	-105	0.97
MW-23	04-Oct-05	19,400	27.90	7.25	-19	2.19
	14-Dec-05	15,800	26.35	8.13	94	8.54
	08-Mar-06	21,100	27.87	7.15	199	5.47
	02-May-06	16,200	29.60	6.85	-13	---
	04-Oct-06	21,200	30.34	7.62	40	6.14
MW-24A	03-Oct-05	3,040	29.20	7.70	157	3.26
	06-Mar-06	3,140	28.11	7.47	239	5.17
	03-Oct-06	3,910	29.14	7.42	101	2.87
MW-24B	03-Oct-05	14,000	30.20	7.93	153	3.19
	07-Mar-06	17,200	30.96	7.73	199	2.59
	03-Oct-06	18,700	30.38	7.85	85	2.72
MW-24BR	15-Dec-05	18,500	28.20	7.71	-291	2.25
	16-Mar-06	16,400	24.96	7.05	-230	3.75
	10-May-06	20,700	33.73	7.64	-325	2.40
	05-Jun-06	12,700	41.92	6.81	-287	---
	01-Nov-06	17,300	36.40	7.39	-183	1.20
MW-25	04-Oct-05	1,510	29.23	7.65	55	6.72

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-25	14-Dec-05	1,220	28.85	8.40	156	7.97
	09-Mar-06	2,750	29.19	7.28	210	7.40
	03-May-06	2,110	30.70	7.06	98	7.72
	03-Oct-06	1,720	28.62	7.39	81	6.88
MW-26	04-Oct-05	3,380	29.90	7.54	45	8.79
	12-Dec-05	3,440	29.00	7.33	161	9.93
	08-Mar-06	3,840	29.14	7.98	170	9.16
	01-May-06	3,290	30.30	7.14	---	---
	03-Oct-06	4,140	29.74	7.20	104	---
MW-27-20	05-Oct-05	1,170	22.21	7.10	-158	1.82
	14-Dec-05	1,120	18.69	7.58	-171	2.19
	06-Mar-06	910	18.16	8.01	-153	0.38
	01-May-06	1,510	50.00	7.00	---	2.51
	14-Jun-06	2,730	23.79	7.53	-178	4.57
	03-Oct-06	1,240	22.78	7.49	-176	0.48
MW-27-60	05-Oct-05	13,200	21.69	6.48	-97	3.16
	15-Dec-05	10,000	20.71	6.52	-134	2.89
	07-Mar-06	13,700	21.55	7.76	-118	2.46
	01-May-06	12,100	40.96	6.91	-140	1.02
	03-Oct-06	14,300	22.07	7.47	-122	0.76
MW-27-85	08-Sep-05	20,500	30.50	7.14	-158	1.70
	05-Oct-05	18,100	22.49	6.51	-82	2.11
	03-Nov-05	23,100	22.04	7.17	-150	1.13
	15-Dec-05	14,300	21.18	6.34	-124	2.76
	12-Jan-06	22,600	21.36	7.57	-91	2.78
	08-Feb-06	21,100	22.00	7.09	-82	2.58
	06-Mar-06	15,800	21.67	7.62	-92	0.16
	03-Apr-06	18,200	23.12	6.88	-102	2.50
	01-May-06	18,300	39.90	6.70	-104	0.94
	14-Jun-06	22,400	23.89	6.89	-98	3.32
	12-Jul-06	21,400	22.80	6.62	-71	2.18
	08-Aug-06	22,900	23.15	6.75	-33	2.69
	06-Sep-06	23,200	27.30	7.56	-87	2.44
	13-Oct-06	24,100	21.27	6.93	-78	1.07
MW-28-25	06-Oct-05	1,300	25.22	6.98	-35	2.01
	16-Dec-05	1,390	23.10	7.16	-69	2.52
	09-Mar-06	1,140	21.53	7.67	-54	3.52
	05-May-06	1,260	23.90	6.75	-126	0.75
	11-Oct-06	1,860	24.13	7.05	-111	1.54
MW-28-90	09-Sep-05	8,190	22.70	7.62	-190	1.71
	06-Oct-05	9,070	21.86	6.94	-138	2.02
	02-Nov-05	9,720	22.62	7.65	-183	1.39
	16-Dec-05	8,430	21.80	7.42	-176	2.47
	10-Jan-06	11,000	21.90	8.01	-140	3.32
	09-Feb-06	8,830	22.07	7.55	-156	2.76

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-28-90	06-Mar-06	6,830	21.76	8.22	-151	0.26
	06-Apr-06	8,160	23.01	7.77	---	2.09
	05-May-06	8,690	25.14	7.05	-150	0.78
	15-Jun-06	7,980	23.15	7.34	-153	3.93
	13-Jul-06	---	23.49	7.33	-150	1.59
	11-Aug-06	12,300	23.03	6.66	-159	0.58
	08-Sep-06	7,830	21.78	7.50	-133	3.17
	13-Oct-06	9,700	20.54	7.46	-156	1.00
MW-29	04-Oct-05	5,240	26.71	7.31	-110	3.20
	12-Dec-05	4,280	24.07	7.89	-40	5.49
	13-Apr-06	4,220	24.93	7.77	-142	4.15
	05-May-06	4,430	30.90	6.75	-128	1.26
	13-Oct-06	4,770	25.18	7.14	-56	5.26
MW-30-30	07-Oct-05	45,000	27.60	6.94	-146	2.54
	15-Dec-05	38,900	26.41	6.29	-100	2.95
	13-Mar-06	55,600	25.61	7.39	-99	1.15
	02-May-06	54,600	29.60	6.57	-104	2.38
	10-Oct-06	56,500	27.42	6.91	-129	1.39
MW-30-50	07-Oct-05	12,300	26.80	7.22	-236	2.81
	16-Dec-05	8,840	25.10	7.16	-263	2.49
	09-Mar-06	8,800	25.55	7.52	-81	2.42
	02-May-06	14,300	27.80	6.84	-102	2.82
	11-Oct-06	8,280	24.85	7.16	-113	0.75
MW-31-60	06-Oct-05	2,990	28.73	7.80	54	6.36
	13-Dec-05	2,870	27.95	8.46	119	6.75
	15-Mar-06	2,750	28.69	7.68	217	7.01
	01-May-06	2,740	29.40	7.40	---	---
	05-Oct-06	3,440	28.30	7.46	82	7.77
MW-31-135	06-Oct-05	10,100	29.62	8.00	-4	2.02
	14-Dec-05	7,980	27.90	8.77	124	4.13
	15-Mar-06	13,400	28.84	7.75	33	3.05
	09-May-06	15,900	31.92	7.58	82	2.75
	05-Oct-06	13,600	29.48	7.73	65	2.91
MW-32-20	04-Oct-05	36,000	29.51	6.69	-115	2.35
	16-Dec-05	33,900	24.50	7.19	-107	2.65
	10-Mar-06	---	24.08	7.36	-125	0.44
	04-May-06	25,500	29.70	6.11	-120	0.40
	02-Oct-06	59,800	30.32	6.72	-122	0.91
MW-32-35	04-Oct-05	11,600	25.55	7.25	-159	2.06
	16-Dec-05	11,200	24.68	7.71	-141	2.43
	10-Mar-06	9,570	25.23	7.90	-161	0.09
	04-May-06	16,500	28.70	6.57	-171	0.26
	02-Oct-06	20,000	26.19	7.69	-162	0.69
MW-33-40	12-Dec-05	---	22.02	8.23	45	4.85
	04-May-06	4,580	33.10	7.15	12	5.25

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-33-40	06-Oct-06	6,710	23.80	8.07	167	
MW-33-90	06-Oct-05	9,210	28.40	7.18	-33	1.86
	13-Dec-05	9,310	26.60	7.66	-43	2.29
	08-Mar-06	10,200	26.82	8.17	-42	0.26
	03-May-06	10,400	32.20	6.75	-44	0.40
	06-Oct-06	12,500	27.28	7.47	---	0.95
MW-33-150	09-Sep-05	17,000	28.60	7.60	-108	1.68
	06-Oct-05	15,800	28.83	7.19	-41	2.05
	02-Nov-05	20,800	27.78	7.55	-81	1.41
	12-Dec-05	19,200	27.24	8.15	21	3.88
	10-Jan-06	21,800	26.81	8.01	27	3.70
	07-Feb-06	20,400	27.30	7.59	-61	2.69
	08-Mar-06	20,400	26.59	8.06	-55	0.26
	06-Apr-06	18,300	27.88	7.78	39	2.13
	03-May-06	17,100	34.40	6.75	-23	1.02
	16-Jun-06	21,300	27.84	6.98	38	2.82
	13-Jul-06	22,400	29.07	7.32	-14	1.09
	11-Aug-06	20,200	28.92	6.85	-19	1.79
	08-Sep-06	17,900	27.22	7.61	28	1.79
	06-Oct-06	20,500	28.10	7.45	15	0.91
MW-33-210	06-Sep-05	22,600	29.10	7.23	-109	1.68
	06-Oct-05	18,800	29.14	6.96	-30	1.78
	02-Nov-05	24,900	28.15	7.40	-73	1.39
	12-Dec-05	21,900	27.15	7.90	40	3.60
	10-Jan-06	24,200	27.49	7.77	13	3.17
	07-Feb-06	22,800	27.50	7.40	-14	2.70
	06-Mar-06	16,600	27.64	7.98	-37	0.21
	13-Apr-06	18,100	31.85	8.15	21	6.81
	05-May-06	20,100	28.30	6.50	34	0.39
	16-Jun-06	23,600	27.86	7.03	-27	2.86
	13-Jul-06	27,100	28.50	7.15	36	2.24
	08-Aug-06	23,900	29.27	7.25	70	3.12
	08-Sep-06	21,000	26.90	7.40	59	1.68
	06-Oct-06	24,000	27.36	7.27	28	0.94
MW-34-55	05-Oct-05	8,610	21.94	6.83	-93	1.69
	14-Dec-05	6,610	20.28	7.30	-124	2.08
	08-Mar-06	8,460	20.41	7.94	-106	---
	03-May-06	7,580	27.40	6.64	-117	0.33
	04-Oct-06	3,080	20.03	7.24	-178	2.17
MW-34-80	07-Sep-05	17,100	26.90	7.12	-148	1.55
	05-Oct-05	13,800	22.34	6.67	-58	2.21
	03-Nov-05	16,300	22.72	7.12	-117	1.11
	14-Dec-05	10,400	22.47	7.02	-88	2.28
	11-Jan-06	18,100	22.16	7.50	-38	3.08
	08-Feb-06	16,400	27.25	7.17	-22	2.63

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-34-80	09-Mar-06	15,100	21.51	7.38	-12	2.20
	03-Apr-06	13,500	23.30	7.03	-38	2.40
	03-May-06	13,800	27.30	6.37	-68	0.15
	14-Jun-06	15,600	23.00	6.96	-99	2.65
	12-Jul-06	14,800	23.93	6.96	-75	1.58
	08-Aug-06	16,200	23.11	7.05	-33	0.59
	06-Sep-06	16,000	24.62	7.75	-84	0.95
	04-Oct-06	14,400	20.88	6.91	-111	2.12
MW-34-100	07-Sep-05	19,500	27.80	7.37	-60	1.53
	20-Sep-05	14,000	30.20	7.39	-28	1.99
	05-Oct-05	15,900	24.02	6.89	-13	1.91
	03-Nov-05	19,900	23.16	7.45	-49	1.12
	16-Nov-05	16,100	23.30	7.31	-2	4.63
	30-Nov-05	19,900	22.60	7.39	-55	2.59
	14-Dec-05	12,400	21.75	7.38	-26	2.33
	28-Dec-05	19,300	22.40	7.22	-28	2.38
	12-Jan-06	21,000	22.00	7.77	104	3.17
	23-Jan-06	23,300	22.30	7.38	136	2.57
	08-Feb-06	20,100	22.83	7.54	65	2.50
	22-Feb-06	21,900	22.88	7.61	225	3.01
	08-Mar-06	18,600	22.62	8.13	-8	---
	23-Mar-06	18,400	22.54	7.50	113	2.21
	03-Apr-06	16,800	24.50	7.39	42	2.81
	03-May-06	18,200	32.90	6.71	-10	0.33
	17-May-06	23,800	27.80	7.41	44	3.11
	31-May-06	16,100	29.17	6.53	104	3.13
	14-Jun-06	20,800	24.24	7.42	-2	3.21
	28-Jun-06	21,800	25.77	7.09	132	4.98
	12-Jul-06	19,300	24.05	7.35	27	1.48
	26-Jul-06	---	23.55	7.48	36	2.20
	08-Aug-06	20,600	24.55	7.44	64	0.48
	28-Aug-06	28,900	26.40	7.45	69	1.29
	06-Sep-06	22,500	25.55	7.99	117	1.93
	20-Sep-06	19,600	25.45	7.83	181	1.52
	04-Oct-06	20,700	21.89	7.40	0	2.03
	18-Oct-06	21,700	23.91	8.14	52	0.76
MW-35-60	07-Oct-05	7,560	27.98	7.49	-1	1.90
	14-Dec-05	5,800	25.95	8.34	95	3.97
	14-Mar-06	---	26.87	7.23	42	2.92
	01-May-06	6,770	29.80	7.15	-37	---
	12-Oct-06	12,200	29.89	8.01	112	1.26
MW-35-135	07-Oct-05	10,800	28.17	7.75	-55	1.29
	14-Dec-05	8,480	26.27	8.76	38	3.17
	10-Mar-06	12,400	25.96	7.98	103	2.44
	02-May-06	13,000	28.00	7.39	0	2.70
	12-Oct-06	14,400	31.03	8.19	113	1.20

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-20	03-Oct-05	13,000	26.68	7.42	-165	3.02
	15-Dec-05	---	24.89	7.39	-112	2.36
	07-Mar-06	18,900	24.38	7.82	-148	2.50
	01-May-06	20,100	25.42	7.78	-180	5.28
	02-Oct-06	24,000	25.27	7.19	-177	1.84
MW-36-40	03-Oct-05	10,800	25.72	7.28	-162	3.79
	15-Dec-05	15,400	24.70	7.87	-190	2.68
	07-Mar-06	17,000	24.57	7.71	-166	3.30
	01-May-06	13,500	26.08	7.83	-179	5.10
	05-Oct-06	16,000	23.94	7.30	-194	1.37
MW-36-50	03-Oct-05	7,500	26.23	7.45	-133	2.87
	15-Dec-05	13,700	24.70	7.61	-136	2.80
	07-Mar-06	8,400	24.34	7.66	-110	2.72
	01-May-06	6,810	25.96	7.90	-162	3.60
	05-Oct-06	4,200	23.35	7.48	-165	1.39
MW-36-70	03-Oct-05	7,680	26.12	7.37	-112	2.54
	15-Dec-05	9,310	24.43	7.73	-108	2.27
	10-Feb-06	12,600	25.21	7.39	-91	2.66
	07-Mar-06	9,720	24.15	7.64	-67	2.51
	06-Apr-06	7,740	24.51	7.57	---	1.79
	01-May-06	8,180	25.24	7.79	-130	4.64
	13-Jun-06	7,840	33.60	5.95	---	---
	11-Jul-06	7,320	26.10	7.21	-108	0.64
	09-Aug-06	6,920	27.97	7.22	-149	0.72
	07-Sep-06	5,930	23.60	7.34	-105	1.70
	02-Oct-06	5,220	25.77	7.40	-122	1.43
MW-36-90	08-Sep-05	17,500	25.60	7.22	49	1.63
	03-Oct-05	12,700	25.66	7.15	174	3.44
	02-Nov-05	19,300	25.25	7.14	69	1.39
	15-Dec-05	18,000	24.62	7.54	34	2.48
	12-Jan-06	19,500	24.75	7.48	13	2.78
	10-Feb-06	16,100	25.15	7.35	37	3.43
	07-Mar-06	14,700	24.51	7.60	42	3.09
	04-Apr-06	12,700	25.58	7.12	5	2.42
	01-May-06	11,400	25.83	7.71	24	4.39
	13-Jun-06	10,300	32.50	5.84	---	---
	11-Jul-06	14,000	26.47	7.11	-34	0.77
	09-Aug-06	9,190	26.55	7.13	-96	0.82
	07-Sep-06	8,400	24.34	7.34	-55	1.67
	02-Oct-06	8,270	25.23	7.22	-20	1.04
MW-36-100	08-Sep-05	18,300	27.50	7.20	21	1.70
	05-Oct-05	16,500	25.70	6.66	4	2.78
	03-Nov-05	21,100	25.81	7.20	-19	1.31
	13-Dec-05	16,500	25.18	7.22	5	2.20
	12-Jan-06	21,600	25.43	7.45	28	2.91

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-36-100	09-Feb-06	19,700	26.32	7.25	18	2.56
	13-Mar-06	17,400	25.95	7.79	-16	0.16
	05-Apr-06	15,300	24.66	8.31	24	0.09
	02-May-06	21,900	29.01	6.86	23	2.72
	15-Jun-06	18,200	26.71	7.13	7	3.60
	13-Jul-06	19,600	25.93	6.89	37	1.04
	09-Aug-06	14,600	25.86	7.11	67	1.60
	08-Sep-06	16,200	25.93	7.34	-10	2.61
	11-Oct-06	16,500	25.40	7.07	17	0.91
MW-37D	04-Oct-05	15,100	30.46	8.09	4	2.76
	14-Dec-05	13,100	28.94	8.70	71	4.03
	13-Mar-06	18,600	29.56	7.68	118	3.37
	03-May-06	33,000	31.44	7.11	96	3.23
	13-Oct-06	30,600	31.67	7.93	2	1.92
MW-37S	04-Oct-05	4,460	29.28	7.98	-33	3.01
	14-Dec-05	3,860	27.67	8.78	69	4.20
	13-Mar-06	6,000	28.44	7.73	106	3.81
	04-May-06	6,080	29.99	7.61	116	3.53
	13-Oct-06	---	31.70	8.01	-12	2.48
MW-38D	07-Oct-05	25,700	30.47	7.82	-2	1.07
	10-Mar-06	23,800	28.47	7.48	112	2.09
	12-Oct-06	26,300	30.83	7.69	-31	1.25
MW-38S	07-Oct-05	4,290	29.50	7.45	47	2.17
	10-Mar-06	4,750	28.69	7.19	158	3.44
	12-Oct-06	4,490	30.54	7.25	48	4.64
MW-39-40	04-Oct-05	5,640	26.50	7.41	-203	2.87
	16-Dec-05	5,680	25.94	7.34	-177	2.07
	07-Mar-06	8,450	25.57	7.76	-162	3.03
	02-May-06	8,150	27.41	6.89	-188	0.13
	05-Oct-06	---	25.72	7.21	-198	1.35
MW-39-50	04-Oct-05	13,600	26.90	7.21	-78	2.59
	16-Dec-05	11,300	25.97	7.07	-57	2.01
	12-Jan-06	18,300	25.53	7.54	-9	2.84
	08-Mar-06	16,000	25.31	7.76	71	2.31
	02-May-06	9,380	32.00	6.56	-45	0.18
	05-Oct-06	11,200	25.79	7.19	-77	1.38
MW-39-60	04-Oct-05	14,100	27.00	7.05	-20	2.15
	16-Dec-05	11,200	25.15	6.83	-40	2.34
	08-Mar-06	---	25.50	7.50	12	2.10
	02-May-06	12,000	32.40	6.43	-39	0.19
	05-Oct-06	11,300	25.74	7.14	-54	1.24
MW-39-70	04-Oct-05	13,800	26.60	7.05	31	2.72
	16-Dec-05	10,000	25.97	7.10	22	2.19
	10-Feb-06	15,500	25.88	7.20	48	2.81
	08-Mar-06	16,300	25.40	7.56	201	2.79

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-39-70	06-Apr-06	12,300	25.64	7.24	88	2.13
	02-May-06	11,200	28.60	6.32	31	0.15
	14-Jun-06	10,300	27.24	5.92	197	0.02
	12-Jul-06	9,570	29.67	5.35	74	0.88
	10-Aug-06	---	26.45	7.00	67	0.60
	07-Sep-06	9,760	27.36	7.22	21	1.67
	05-Oct-06	12,200	25.78	7.01	-1	1.24
MW-39-80	06-Sep-05	17,700	26.50	7.00	149	1.97
	04-Oct-05	15,900	26.90	7.09	76	2.73
	02-Nov-05	17,600	26.11	7.17	148	1.44
	15-Dec-05	15,400	25.72	7.55	78	2.24
	12-Jan-06	18,200	25.51	7.43	58	2.91
	10-Feb-06	18,900	26.04	7.16	66	2.60
	08-Mar-06	20,900	25.40	7.51	154	2.23
	06-Apr-06	15,800	25.57	7.24	86	2.00
	02-May-06	14,900	30.10	6.22	61	0.19
	14-Jun-06	15,100	27.08	5.80	184	0.00
	12-Jul-06	14,600	28.11	5.20	69	1.07
	10-Aug-06	15,800	28.08	6.73	78	0.63
	07-Sep-06	17,500	26.29	7.08	47	1.63
	05-Oct-06	19,500	25.92	6.82	76	1.20
MW-39-100	06-Sep-05	21,000	26.90	7.11	134	2.22
	04-Oct-05	15,900	26.84	7.29	73	2.32
	02-Nov-05	23,000	26.52	7.04	168	1.67
	13-Dec-05	20,100	26.70	7.06	139	3.00
	12-Jan-06	22,900	26.44	7.42	121	3.56
	09-Feb-06	21,700	27.38	7.18	120	2.88
	13-Mar-06	20,400	26.93	7.59	51	0.70
	05-Apr-06	18,300	26.63	8.17	73	0.91
	02-May-06	---	28.20	6.64	67	3.48
	14-Jun-06	23,100	27.37	6.93	79	3.44
	13-Jul-06	26,200	27.57	6.81	80	1.46
	10-Aug-06	23,000	27.63	6.94	141	1.63
	08-Sep-06	20,700	27.34	7.14	46	2.75
	11-Oct-06	23,100	26.32	6.87	87	1.24
MW-40D	05-Oct-05	16,100	31.90	7.51	-60	2.64
	13-Dec-05	18,300	30.39	8.39	-6	2.80
	08-Mar-06	18,900	31.56	7.42	45	2.13
	03-May-06	---	32.36	6.77	66	2.53
	05-Oct-06	20,900	32.05	7.57	84	2.14
MW-40S	05-Oct-05	1,940	30.90	7.64	7	6.81
	13-Dec-05	2,130	28.79	8.34	157	8.02
	08-Mar-06	2,670	30.87	7.50	233	7.85
	03-May-06	3,080	31.39	6.98	92	8.47
	05-Oct-06	2,680	32.32	7.52	92	7.32

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Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-41D	05-Oct-05	21,100	31.40	7.77	-225	2.38
	16-Dec-05	20,200	29.05	8.31	-163	2.15
	15-Mar-06	24,700	30.92	7.71	-115	2.10
	05-May-06	20,700	30.67	7.88	-136	0.33
	04-Oct-06	24,000	31.93	7.90	-117	0.64
MW-41M	05-Oct-05	15,100	30.40	7.63	-85	2.42
	16-Dec-05	14,400	28.50	8.14	-38	2.08
	13-Mar-06	17,900	29.77	7.66	18	2.22
	05-May-06	15,000	30.59	7.88	88	3.47
	05-Oct-06	19,500	29.53	7.67	87	1.91
MW-41S	05-Oct-05	4,660	29.50	7.84	-47	3.29
	16-Dec-05	4,420	27.86	8.37	-3	2.86
	13-Mar-06	9,600	27.22	7.85	48	3.36
	05-May-06	4,760	31.33	8.09	80	2.31
	05-Oct-06	6,000	28.65	7.83	65	3.11
MW-42-30	07-Oct-05	16,700	26.20	7.20	-139	2.92
	15-Dec-05	14,500	25.01	6.43	-129	2.39
	07-Mar-06	11,400	25.22	7.93	-154	0.36
	02-May-06	18,500	36.30	6.90	-160	2.29
	03-Oct-06	19,700	27.77	7.29	-160	0.89
MW-42-55	07-Oct-05	18,100	25.50	7.14	-126	5.62
	15-Dec-05	11,100	24.44	6.50	-143	2.38
	07-Mar-06	16,500	25.12	7.76	-122	0.27
	02-May-06	21,400	37.00	6.76	-138	2.17
	03-Oct-06	19,100	26.35	7.30	-126	0.76
MW-42-65	07-Oct-05	17,300	25.80	6.81	-121	2.85
	15-Dec-05	13,200	23.43	6.29	-78	2.49
	07-Mar-06	20,100	24.66	7.37	-58	0.39
	02-May-06	25,400	36.60	6.47	-76	2.15
	03-Oct-06	20,400	26.39	7.05	-50	0.70
MW-43-25	04-Oct-05	1,220	21.42	7.50	-159	1.95
	16-Dec-05	1,420	20.00	7.25	-184	2.53
	10-Mar-06	1,350	20.50	7.88	-153	0.29
	04-May-06	1,280	30.00	6.74	-176	0.45
	02-Oct-06	1,310	22.84	8.04	-172	0.61
MW-43-75	08-Sep-05	16,400	28.20	7.29	-176	1.68
	04-Oct-05	12,900	22.09	7.20	-126	2.27
	03-Nov-05	16,700	21.86	7.36	-168	1.38
	16-Dec-05	15,900	20.90	7.19	-179	2.40
	11-Jan-06	18,400	21.04	7.73	-134	3.16
	10-Feb-06	18,500	21.30	7.29	-154	3.00
	10-Mar-06	14,400	21.03	8.05	-149	0.11
	03-Apr-06	15,000	21.35	7.12	-148	2.33
	04-May-06	15,400	26.60	6.83	-167	0.34
	02-Oct-06	17,900	22.33	7.68	-128	1.18

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-43-90	08-Sep-05	23,100	30.10	6.87	-152	1.69
	04-Oct-05	18,400	22.65	6.70	-78	4.85
	03-Nov-05	27,700	22.43	6.88	-127	1.15
	16-Dec-05	22,300	21.30	6.72	-127	2.51
	11-Jan-06	26,500	21.57	7.16	-89	3.28
	10-Feb-06	25,900	21.70	6.89	-112	2.81
	10-Mar-06	21,100	21.41	7.48	-116	0.01
	03-Apr-06	21,100	21.56	6.58	-97	2.32
	04-May-06	22,400	29.40	6.27	-124	0.38
	02-Oct-06	23,600	22.65	7.22	-108	0.39
MW-44-70	09-Mar-06	6,970	24.05	7.98	-393	2.38
	23-Mar-06	7,600	25.55	7.48	-166	2.41
	04-Apr-06	9,200	25.30	8.16	-96	1.60
	04-May-06	10,000	25.50	7.93	-156	4.49
	13-Jun-06	12,200	25.21	7.09	-131	4.33
	15-Jun-06	14,900	25.66	7.27	-118	5.38
	04-Oct-06	8,910	24.27	7.09	-181	2.33
MW-44-115	14-Mar-06	16,500	25.36	7.54	-11	1.49
	22-Mar-06	---	25.88	8.52	-74	2.98
	04-Apr-06	15,800	26.68	8.62	37	1.76
	20-Apr-06	11,400	26.70	6.87	-38	0.45
	26-Apr-06	15,800	25.76	7.72	-27	2.52
	04-May-06	17,300	26.40	8.32	-21	4.89
	10-May-06	22,700	26.99	7.56	7	2.23
	17-May-06	19,600	26.66	7.74	-10	1.85
	31-May-06	13,100	34.75	6.85	-11	0.23
	13-Jun-06	17,700	25.87	7.42	-26	3.25
	28-Jun-06	16,800	32.60	7.50	-37	4.00
	12-Jul-06	17,300	25.98	7.51	14	1.23
	26-Jul-06	---	26.06	7.72	-31	0.56
	09-Aug-06	17,700	28.92	7.50	63	2.93
	23-Aug-06	16,800	29.02	7.31	93	0.55
	07-Sep-06	15,600	24.54	7.74	139	1.70
	21-Sep-06	14,600	24.77	7.64	57	2.65
	05-Oct-06	18,400	24.61	8.14	3	2.87
	18-Oct-06	18,300	26.40	8.25	23	0.75
MW-44-125	09-Mar-06	13,500	24.66	8.68	-419	2.58
	22-Mar-06	15,000	26.03	9.11	-280	1.53
	04-Apr-06	15,600	28.90	9.16	10	1.91
	20-Apr-06	11,400	26.80	7.84	-138	0.00
	26-Apr-06	16,200	26.95	8.23	-147	2.45
	04-May-06	17,200	27.70	8.97	-144	4.41
	10-May-06	23,000	29.69	8.13	-96	2.18
	17-May-06	19,700	27.62	8.13	-103	1.74
	31-May-06	13,600	34.55	7.26	-95	0.44
	28-Jun-06	13,000	27.71	7.30	-186	4.25

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-44-125	11-Jul-06	12,100	37.10	6.90	-16	0.74
	26-Jul-06	---	28.31	7.87	-140	1.86
	09-Aug-06	16,800	29.13	7.70	-93	0.55
	28-Aug-06	17,700	28.38	8.00	-188	1.12
	07-Sep-06	14,600	24.30	8.14	-39	4.06
	20-Sep-06	16,700	25.31	8.92	-130	0.40
	05-Oct-06	18,000	26.46	8.39	-97	2.57
	18-Oct-06	18,900	25.97	8.51	-112	0.76
MW-45-095a	24-Mar-06	16,100	23.78	7.46	-20	2.32
	13-Jul-06	22,200	25.43	7.25	45	1.39
MW-45-095b	24-Mar-06	16,700	22.91	7.53	-12	2.10
MW-46-175	14-Mar-06	19,500	26.33	8.13	-44	2.19
	24-Mar-06	19,900	25.60	9.19	-93	1.87
	07-Apr-06	18,500	23.39	8.78	-116	2.10
	04-May-06	20,800	27.40	8.92	-27	4.81
	18-May-06	20,500	28.20	8.11	-17	2.62
	31-May-06	15,900	36.28	7.31	37	1.23
	15-Jun-06	19,900	26.09	8.07	-16	3.16
	30-Jun-06	21,800	24.80	7.91	56	6.19
	12-Jul-06	19,500	26.79	7.97	38	1.48
	27-Jul-06	---	25.91	8.21	16	0.67
	09-Aug-06	21,900	28.49	8.02	65	0.72
	25-Aug-06	19,800	27.99	7.85	-24	1.14
	07-Sep-06	26,400	27.50	8.31	90	2.23
	21-Sep-06	18,300	25.54	8.26	43	2.32
	05-Oct-06	22,200	25.29	8.75	0	2.83
	18-Oct-06	21,900	26.74	8.86	15	0.86
MW-46-205	14-Mar-06	22,600	26.27	8.02	-117	2.27
	24-Mar-06	24,000	26.40	9.05	-202	1.68
	07-Apr-06	22,400	26.16	8.66	-200	1.93
	04-May-06	25,900	27.46	8.76	-177	4.60
	15-Jun-06	24,100	25.98	7.69	-147	2.88
	13-Jul-06	24,900	27.02	7.85	-152	1.03
	10-Aug-06	22,900	27.13	7.98	-88	1.29
	07-Sep-06	26,000	28.00	8.21	-37	1.62
	05-Oct-06	27,500	26.98	8.65	-96	2.41
MW-47-55	23-Mar-06	5,800	28.82	7.67	-94	2.98
	16-May-06	4,430	29.50	7.31	22	2.89
	10-Oct-06	5,300	27.85	7.48	6	2.83
MW-47-115	23-Mar-06	15,600	29.46	7.79	-161	2.32
	16-May-06	18,400	29.60	7.22	-67	1.93
	10-Oct-06	16,800	28.45	7.59	-80	1.13
MW-48	18-May-06	12,300	34.53	7.02	-39	1.53
	06-Jun-06	15,000	41.55	6.37	-128	0.63
	06-Oct-06	21,600	33.61	7.01	-65	1.49

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
MW-49-135	25-Apr-06	18,800	25.69	7.55	-167	2.42
	18-May-06	17,100	26.68	7.21	-178	2.29
	12-Oct-06	21,200	24.94	7.73	-200	1.90
MW-49-275	25-Apr-06	29,400	29.06	7.88	-143	3.35
	18-May-06	26,700	29.92	7.68	-214	2.17
	12-Oct-06	31,100	28.34	8.21	-252	1.82
MW-49-365	26-Apr-06	37,600	28.97	7.85	-244	2.19
	16-May-06	44,900	32.14	7.68	-192	1.80
	12-Oct-06	47,700	28.83	8.07	-275	1.43
MW-50-095	09-May-06	5,480	31.23	7.20	30	3.00
	24-May-06	---	31.08	7.36	50	3.42
	10-Oct-06	7,120	28.57	7.72	24	2.85
MW-50-200	09-May-06	20,200	33.28	7.29	-11	1.91
	24-May-06	37,000	32.25	7.10	60	4.11
	10-Oct-06	28,100	28.96	7.70	93	2.99
MW-51	12-May-06	12,100	34.29	6.35	92	2.51
	30-May-06	10,600	33.16	7.40	17	1.53
	06-Oct-06	13,800	29.21	7.41	119	3.79
OW-3D	06-Oct-05	7,890	31.10	8.23	-178	1.29
	09-Mar-06	7,840	29.71	7.66	-1	2.00
	06-Oct-06	11,500	30.78	8.96	52	2.05
OW-3M	06-Oct-05	5,440	30.66	8.16	-90	1.82
	09-Mar-06	5,550	29.72	7.70	-41	2.38
	12-Oct-06	6,320	31.85	8.42	75	1.30
OW-3S	06-Oct-05	2,040	30.12	7.84	-9	7.07
	09-Mar-06	2,480	29.23	7.43	57	6.77
	12-Oct-06	2,840	31.80	8.18	85	6.01
PE-1	03-Oct-05	11,600	26.10	7.37	-202	0.77
	13-Dec-05	12,400	23.07	7.21	-148	2.19
PGE-6	12-Oct-05	4,240	28.14	7.48	-23	1.59
PGE-8	13-Oct-05	22,300	31.50	8.26	-338	1.08
Park Moabi	05-Oct-05	1,430	28.98	7.83	93	6.76
	16-Dec-05	2,860	28.83	7.96	-26	3.67
	06-Mar-06	1,110	29.10	8.01	275	4.67
	03-May-06	1,510	29.30	8.28	112	---
	04-Oct-06	1,630	30.03	7.74	69	
TW-1	11-Oct-05	7,120	30.39	7.30	148	4.90
TW-2D	15-Mar-06	8,470	26.30	7.46	5	5.20
	03-May-06	8,490	28.70	8.35	82	6.10
	04-Oct-06	11,900	29.06	7.38	162	4.91
TW-2S	07-Oct-05	3,320	22.10	6.24	204	8.57
	15-Mar-06	3,200	27.97	7.84	-38	7.53
	03-May-06	3,150	28.80	8.20	80	6.75

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Monitoring Wells						
TW-2S	04-Oct-06	3,470	28.95	7.60	224	6.70
TW-4	18-May-06	15,600	32.70	7.05	-97	0.56
	05-Jun-06	18,300	35.62	6.35	-131	0.00
	09-Oct-06	24,700	30.04	7.55	12	1.11
TW-5	10-May-06	15,100	32.57	7.09	-161	0.60
	01-Jun-06	10,600	34.87	6.72	17	1.51
	09-Oct-06	15,800	29.90	7.79	60	1.12
Shoreline Surface Water Station						
CON	07-Sep-05	1,190	21.37	7.91	58	12.58
	05-Oct-05	1,120	19.17	7.97	120	9.43
	01-Nov-05	---	18.94	8.17	99	9.20
	15-Dec-05	1,160	11.30	8.02	186	13.61
	11-Jan-06	1,330	11.80	8.76	66	12.86
	09-Feb-06	1,180	12.06	8.59	163	10.94
	06-Mar-06	---	12.70	8.51	299	10.69
	07-Apr-06	1,560	20.59	8.77	---	9.36
	03-May-06	913	19.48	8.76	216	8.83
	15-Jun-06	960	19.10	6.80	147	7.99
	12-Jul-06	760	29.75	5.67	82	6.68
	08-Aug-06	---	22.33	8.00	118	9.77
	06-Sep-06	1,310	23.80	8.70	58	7.98
	04-Oct-06	1,290	20.95	8.02	184	9.18
I-3	07-Sep-05	1,180	20.68	8.21	59	13.20
	05-Oct-05	1,100	18.49	7.18	125	8.87
	01-Nov-05	---	18.82	7.96	105	9.26
	15-Dec-05	1,160	11.40	8.18	182	11.33
	11-Jan-06	1,330	11.50	8.82	21	12.11
	10-Feb-06	1,170	11.57	7.68	258	11.10
	06-Mar-06	930	12.84	7.40	217	12.20
	07-Apr-06	1,250	20.11	8.53	---	9.57
	03-May-06	920	18.20	8.60	182	10.63
	15-Jun-06	920	21.28	7.11	151	6.88
	12-Jul-06	900	36.93	---	76	6.69
	10-Aug-06	1,430	22.47	7.88	102	8.62
	06-Sep-06	1,500	23.90	8.72	60	8.00
	04-Oct-06	1,300	22.31	8.03	177	
NR-1	07-Sep-05	1,180	20.34	8.22	77	13.40
	05-Oct-05	1,110	18.92	8.02	108	9.91
	01-Nov-05	---	18.99	8.17	108	9.19
	15-Dec-05	1,160	11.20	6.52	222	11.52
	10-Jan-06	1,390	12.80	8.84	92	14.09
	07-Feb-06	1,130	12.10	8.62	102	12.47
	06-Mar-06	---	12.35	8.38	296	11.18
	07-Apr-06	1,140	15.10	8.87	80	11.79
	03-May-06	904	18.02	8.83	230	10.24

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Shoreline Surface Water Station						
NR-1	16-Jun-06	970	21.34	6.86	152	7.67
	13-Jul-06	900	30.13	5.74	78	6.61
	08-Aug-06	1,530	21.93	7.95	105	10.44
	06-Sep-06	1,320	23.90	8.74	59	8.05
	04-Oct-06	1,290	20.53	8.01	180	9.17
NR-2	07-Sep-05	1,180	20.23	8.18	67	11.76
	05-Oct-05	1,100	18.83	8.04	93	9.44
	01-Nov-05	---	19.07	8.22	106	9.18
	15-Dec-05	1,130	11.40	7.23	199	11.28
	10-Jan-06	1,310	11.75	8.48	113	12.86
	07-Feb-06	1,140	11.60	8.13	101	11.97
	06-Mar-06	---	12.76	8.50	296	11.08
	07-Apr-06	913	13.72	8.40	83	13.27
	03-May-06	910	17.81	8.84	230	9.91
	16-Jun-06	950	22.13	6.85	149	7.42
	13-Jul-06	999	24.17	5.83	79	6.77
	08-Aug-06	1,890	21.91	7.98	106	9.85
	06-Sep-06	1,320	24.50	8.75	56	8.23
	04-Oct-06	1,290	20.46	8.00	179	9.21
NR-3	07-Sep-05	1,180	20.28	8.17	66	12.80
	05-Oct-05	1,100	18.80	8.11	101	9.59
	01-Nov-05	---	17.15	8.35	106	9.21
	15-Dec-05	1,120	11.50	7.62	194	11.44
	10-Jan-06	1,300	12.01	8.57	116	13.37
	07-Feb-06	1,150	11.60	8.06	96	12.03
	06-Mar-06	---	12.16	8.40	294	11.49
	07-Apr-06	912	14.82	8.41	93	10.82
	03-May-06	1,140	17.50	8.84	225	9.91
	16-Jun-06	900	24.31	6.85	145	6.91
	13-Jul-06	930	22.40	5.83	83	7.92
	08-Aug-06	---	21.90	7.95	131	9.43
	06-Sep-06	1,400	26.00	8.84	62	8.71
	04-Oct-06	1,290	20.41	8.01	178	9.20
R-22	07-Sep-05	1,210	20.56	7.31	127	13.08
	05-Oct-05	1,110	18.52	7.37	95	9.32
	01-Nov-05	1,920	19.73	6.76	133	9.44
	16-Dec-05	919	12.10	8.15	-28	10.95
	11-Jan-06	1,200	11.83	8.81	---	12.64
	08-Feb-06	831	12.24	8.36	207	11.83
	06-Mar-06	---	12.48	8.09	290	11.83
	03-May-06	918	17.97	8.74	184	9.45
	15-Jun-06	940	20.16	6.97	147	7.82
	12-Jul-06	900	29.35	5.65	82	6.74
	08-Aug-06	---	22.01	7.41	162	10.28
	07-Sep-06	1,320	23.40	7.89	90	9.49
	04-Oct-06	1,300	22.32	8.11	190	

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
Shoreline Surface Water Station						
R-27	07-Sep-05	1,160	20.81	7.52	77	11.63
	05-Oct-05	1,120	19.34	7.65	92	9.50
	01-Nov-05	---	19.06	7.28	94	9.21
	16-Dec-05	1,020	11.50	8.09	---	10.99
	12-Jan-06	822	12.61	8.57	85	12.34
	08-Feb-06	838	12.43	8.26	199	11.87
	06-Mar-06	900	12.69	8.19	287	11.47
	07-Apr-06	990	19.36	8.41	17	9.28
	03-May-06	901	18.48	8.81	205	10.23
	15-Jun-06	950	19.42	6.88	149	7.59
	12-Jul-06	940	24.20	5.60	82	8.56
	08-Aug-06	---	21.98	7.90	143	9.78
	07-Sep-06	1,220	23.70	8.09	80	9.47
	04-Oct-06	1,300	21.61	8.11	177	
R-28	07-Sep-05	1,180	20.60	7.69	59	13.03
	05-Oct-05	1,110	18.82	7.84	95	9.78
	01-Nov-05	---	19.08	7.64	88	9.37
	16-Dec-05	914	11.10	8.08	28	11.20
	10-Jan-06	1,260	12.14	8.49	223	12.75
	08-Feb-06	1,150	12.00	8.41	185	12.57
	06-Mar-06	900	12.53	8.17	287	12.39
	07-Apr-06	937	17.48	8.47	26	9.88
	03-May-06	921	18.36	8.85	212	9.89
	15-Jun-06	950	19.85	6.85	149	8.41
	13-Jul-06	990	24.75	5.90	83	5.96
	08-Aug-06	---	22.26	7.95	115	9.80
	07-Sep-06	1,240	24.10	8.08	82	9.52
	04-Oct-06	1,300	21.37	8.10	175	
RRB	07-Sep-05	1,270	21.97	7.74	82	12.16
	05-Oct-05	1,190	18.65	7.84	146	9.22
	01-Nov-05	---	18.07	8.10	103	9.36
	08-Feb-06	1,630	13.84	8.54	142	11.51
	06-Mar-06	920	15.04	8.41	275	11.68
	07-Apr-06	1,270	20.08	8.28	12	9.46
	03-May-06	1,170	23.33	8.28	190	9.73
	16-Jun-06	900	25.76	6.90	162	7.19
	12-Jul-06	950	27.35	5.73	78	7.48
	10-Aug-06	1,440	24.53	8.26	129	7.31
	06-Sep-06	1,440	27.70	8.62	69	5.84
	04-Oct-06	1,350	24.04	7.93	202	
In-Channel Surface Water Station						
C-CON-D	22-Sep-05	924	22.04	8.31	142	8.68
C-CON-M	22-Sep-05	922	22.03	8.06	149	8.75
C-CON-S	22-Sep-05	922	22.02	8.07	147	8.73
C-CON-D	08-Nov-05	828	19.20	9.33	13	9.06

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
In-Channel Surface Water Station						
C-CON-M	08-Nov-05	1,130	19.20	7.72	42	9.05
C-CON-S	08-Nov-05	825	19.00	7.65	43	9.01
C-CON-D	13-Dec-05	1,060	13.00	8.24	160	11.61
C-CON-M	13-Dec-05	1,060	13.00	8.25	159	11.15
C-CON-S	13-Dec-05	1,060	12.80	8.26	158	11.15
C-CON-D	18-Jan-06	891	12.33	8.75	238	11.55
C-CON-M	18-Jan-06	896	12.19	8.81	236	10.40
C-CON-S	18-Jan-06	1,100	12.11	8.89	235	10.55
C-CON-D	22-Mar-06	1,130	14.23	8.25	191	11.51
C-CON-M	22-Mar-06	1,140	14.10	8.25	202	11.08
C-CON-S	22-Mar-06	1,130	14.26	8.27	205	11.03
C-CON-D	15-Jun-06	1,010	19.32	6.61	116	8.81
C-CON-M	15-Jun-06	970	19.33	6.71	110	8.57
C-CON-S	15-Jun-06	960	19.26	6.76	133	7.22
C-CON-D	03-Oct-06	1,160	22.04	7.95	167	10.21
C-CON-M	03-Oct-06	1,160	21.65	7.93	168	9.30
C-CON-S	03-Oct-06	1,170	21.49	7.94	168	9.45
C-I-3-D	21-Sep-05	914	21.87	8.53	153	8.73
C-I-3-M	21-Sep-05	917	21.90	8.34	147	8.66
C-I-3-S	21-Sep-05	917	21.93	8.43	136	8.69
C-I-3-D	08-Nov-05	1,130	18.60	8.01	65	9.00
C-I-3-M	08-Nov-05	825	18.70	8.20	22	9.10
C-I-3-S	08-Nov-05	825	18.70	8.03	4	9.74
C-I-3-D	13-Dec-05	1,070	12.70	8.10	171	11.29
C-I-3-M	13-Dec-05	1,070	12.60	8.11	174	10.99
C-I-3-S	13-Dec-05	1,070	12.60	8.16	171	10.86
C-I-3-D	18-Jan-06	1,160	11.86	8.73	212	10.68
C-I-3-M	18-Jan-06	934	11.55	8.78	208	9.75
C-I-3-S	18-Jan-06	935	11.71	8.81	211	10.04
C-I-3-D	23-Mar-06	835	14.40	8.71	137	10.94
C-I-3-M	23-Mar-06	836	14.28	8.71	137	10.32
C-I-3-S	23-Mar-06	833	14.41	3.99	138	10.56
C-I-3-D	15-Jun-06	930	21.80	7.12	131	6.61
C-I-3-M	15-Jun-06	930	21.13	7.12	133	7.11
C-I-3-S	15-Jun-06	910	21.00	7.12	133	6.81
C-I-3-D	03-Oct-06	1,210	20.36	7.92	168	9.91
C-I-3-M	03-Oct-06	1,160	20.39	7.94	169	9.43
C-I-3-S	03-Oct-06	1,150	20.54	7.93	175	9.44
C-MAR-M	21-Sep-05	925	23.46	8.33	105	7.83
C-MAR-D	09-Nov-05	1,150	18.10	8.08	137	8.78
C-MAR-M	09-Nov-05	1,140	18.10	8.04	133	8.76
C-MAR-S	09-Nov-05	1,130	18.10	8.04	131	8.68
C-MAR-M	13-Dec-05	1,340	11.60	8.09	165	11.06
C-MAR-D	19-Jan-06	1,350	11.31	8.55	224	10.20
C-MAR-M	19-Jan-06	1,390	11.31	8.54	223	9.77
C-MAR-S	19-Jan-06	1,390	11.35	8.54	224	10.08

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
In-Channel Surface Water Station						
C-MAR-M	23-Mar-06	972	13.86	7.22	157	12.39
C-MAR-D	15-Jun-06	900	29.32	7.18	143	4.95
C-MAR-S	15-Jun-06	900	29.75	7.05	144	6.05
C-MAR-M	03-Oct-06	1,210	23.66	7.76	166	9.73
C-NR1-D	22-Sep-05	919	22.06	8.54	98	8.59
C-NR1-M	22-Sep-05	922	22.08	8.09	132	8.65
C-NR1-S	22-Sep-05	922	22.07	8.09	73	8.62
C-NR1-D	09-Nov-05	1,140	18.20	7.79	188	9.09
C-NR1-M	09-Nov-05	1,050	18.20	8.15	166	9.05
C-NR1-S	09-Nov-05	1,030	18.20	8.23	153	9.06
C-NR1-D	14-Dec-05	980	12.60	7.24	212	11.55
C-NR1-M	14-Dec-05	908	12.60	7.91	211	11.39
C-NR1-S	14-Dec-05	896	12.60	8.13	204	11.46
C-NR1-D	18-Jan-06	1,100	12.35	8.67	241	12.00
C-NR1-M	18-Jan-06	896	12.63	8.73	238	10.35
C-NR1-S	18-Jan-06	890	12.92	8.84	235	11.45
C-NR1-D	22-Mar-06	1,120	13.94	8.26	200	11.20
C-NR1-M	22-Mar-06	1,140	14.10	8.25	205	11.00
C-NR1-S	22-Mar-06	1,140	14.23	8.25	206	11.01
C-NR1-D	16-Jun-06	920	25.67	6.93	118	6.65
C-NR1-M	16-Jun-06	910	25.90	6.91	117	6.50
C-NR1-S	16-Jun-06	900	26.90	6.90	117	4.32
C-NR1-D	04-Oct-06	1,300	20.28	7.64	190	9.58
C-NR1-M	04-Oct-06	1,290	20.26	7.84	170	9.13
C-NR1-S	04-Oct-06	1,290	20.39	7.89	170	9.26
C-NR3-D	22-Sep-05	920	22.00	8.07	127	8.58
C-NR3-M	22-Sep-05	923	22.02	8.09	133	8.56
C-NR3-S	22-Sep-05	923	22.03	8.07	130	8.55
C-NR3-D	09-Nov-05	1,030	18.30	8.25	143	8.94
C-NR3-M	09-Nov-05	1,030	18.30	8.25	142	8.98
C-NR3-S	09-Nov-05	1,030	18.40	8.26	139	8.95
C-NR3-D	14-Dec-05	908	12.50	8.26	192	11.59
C-NR3-M	14-Dec-05	878	12.60	8.31	189	11.46
C-NR3-S	14-Dec-05	860	12.60	8.34	188	11.54
C-NR3-D	18-Jan-06	1,100	12.37	8.69	235	12.24
C-NR3-M	18-Jan-06	1,100	12.35	8.69	236	10.76
C-NR3-S	18-Jan-06	1,100	12.35	8.85	234	10.69
C-NR3-D	22-Mar-06	1,140	13.56	8.22	188	11.04
C-NR3-M	22-Mar-06	1,160	13.65	8.19	199	10.97
C-NR3-S	22-Mar-06	1,120	13.71	8.23	205	10.96
C-NR3-D	16-Jun-06	940	25.54	6.85	123	6.84
C-NR3-M	16-Jun-06	910	24.94	6.85	118	6.90
C-NR3-S	16-Jun-06	920	25.43	6.86	118	6.11
C-NR3-D	04-Oct-06	1,290	20.49	7.93	166	9.77
C-NR3-M	04-Oct-06	1,290	20.42	7.99	169	9.35
C-NR3-S	04-Oct-06	1,300	20.46	7.99	171	9.41

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
In-Channel Surface Water Station						
C-NR4-D	22-Sep-05	920	21.94	8.05	134	8.62
C-NR4-M	22-Sep-05	923	21.93	8.07	136	8.61
C-NR4-S	22-Sep-05	925	21.91	8.04	137	8.65
C-NR4-D	09-Nov-05	1,030	18.40	8.28	137	8.92
C-NR4-M	09-Nov-05	1,010	18.40	8.27	135	8.95
C-NR4-S	09-Nov-05	1,010	18.40	8.27	134	8.97
C-NR4-D	14-Dec-05	873	12.50	8.33	181	11.60
C-NR4-M	14-Dec-05	862	12.50	8.34	180	11.40
C-NR4-S	14-Dec-05	857	12.50	8.35	179	11.42
C-NR4-D	18-Jan-06	915	13.12	8.26	216	10.27
C-NR4-M	18-Jan-06	1,130	12.14	8.60	214	10.35
C-NR4-S	18-Jan-06	1,100	12.31	8.78	222	11.00
C-NR4-D	22-Mar-06	1,100	12.81	8.14	192	10.92
C-NR4-M	22-Mar-06	1,130	13.23	8.28	182	10.87
C-NR4-S	22-Mar-06	1,130	13.30	8.29	185	10.92
C-NR4-D	16-Jun-06	1,110	25.28	6.31	161	7.09
C-NR4-M	16-Jun-06	960	22.92	6.64	121	6.91
C-NR4-S	16-Jun-06	950	22.78	6.78	112	6.77
C-NR4-D	04-Oct-06	1,300	20.52	8.06	168	9.68
C-NR4-M	04-Oct-06	1,330	20.62	8.02	169	9.48
C-NR4-S	04-Oct-06	1,340	20.73	8.09	171	9.49
C-R22-D	21-Sep-05	914	22.02	8.85	133	8.78
C-R22-M	21-Sep-05	917	22.09	8.58	134	9.08
C-R22-S	21-Sep-05	917	22.14	8.63	121	8.80
C-R22-D	08-Nov-05	1,110	18.90	7.61	93	9.09
C-R22-M	08-Nov-05	1,130	18.90	7.72	82	9.11
C-R22-S	08-Nov-05	828	19.00	8.15	35	8.95
C-R22-D	13-Dec-05	1,060	12.70	8.24	164	10.98
C-R22-M	13-Dec-05	1,060	12.70	8.24	163	10.96
C-R22-S	13-Dec-05	1,060	12.70	8.25	163	10.85
C-R22-D	19-Jan-06	946	11.87	8.76	216	10.39
C-R22-M	19-Jan-06	944	11.65	8.80	214	9.52
C-R22-S	19-Jan-06	938	11.58	8.80	217	10.53
C-R22-D	23-Mar-06	835	14.24	8.65	131	10.96
C-R22-M	23-Mar-06	838	14.10	8.67	131	10.16
C-R22-S	23-Mar-06	840	14.35	8.68	133	10.56
C-R22-D	15-Jun-06	950	20.23	7.03	137	8.60
C-R22-M	15-Jun-06	940	20.03	7.03	138	7.82
C-R22-S	15-Jun-06	940	19.95	7.04	138	6.72
C-R22-D	03-Oct-06	1,250	20.15	7.23	163	9.16
C-R22-M	03-Oct-06	1,170	20.24	7.66	150	9.33
C-R22-S	03-Oct-06	1,160	20.12	7.80	158	9.07
C-R27-D	21-Sep-05	912	22.40	8.50	15	9.00
C-R27-M	21-Sep-05	890	22.51	8.60	61	8.94
C-R27-S	21-Sep-05	889	22.56	8.66	85	9.31
C-R27-D	08-Nov-05	824	19.20	8.64	5	9.17

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

Location	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)
In-Channel Surface Water Station						
C-R27-M	08-Nov-05	829	19.20	---	---	9.14
C-R27-S	08-Nov-05	1,130	19.20	7.87	39	9.03
C-R27-D	13-Dec-05	1,070	13.00	8.26	156	12.38
C-R27-M	13-Dec-05	1,060	12.90	8.26	155	11.12
C-R27-S	13-Dec-05	1,070	13.00	8.27	155	10.89
C-R27-D	19-Jan-06	1,180	12.25	8.60	226	10.28
C-R27-M	19-Jan-06	941	12.05	8.67	222	9.83
C-R27-S	19-Jan-06	939	12.20	8.78	219	10.70
C-R27-M	23-Mar-06	848	14.28	8.47	126	11.69
C-R27-D	15-Jun-06	950	19.75	6.93	138	8.46
C-R27-M	15-Jun-06	940	19.85	6.94	139	9.48
C-R27-S	15-Jun-06	950	19.85	6.96	140	7.51
C-R27-D	03-Oct-06	1,210	21.31	7.94	174	9.76
C-R27-M	03-Oct-06	1,140	21.49	8.00	168	9.07
C-R27-S	03-Oct-06	1,150	21.45	7.95	165	9.54
C-TAZ-D	21-Sep-05	923	21.79	7.94	142	8.86
C-TAZ-M	21-Sep-05	919	21.80	8.18	131	8.74
C-TAZ-S	21-Sep-05	915	21.83	8.19	117	8.74
C-TAZ-D	08-Nov-05	1,150	18.50	8.11	72	8.97
C-TAZ-M	08-Nov-05	1,140	18.50	8.85	57	9.07
C-TAZ-S	08-Nov-05	1,130	18.50	8.10	68	9.05
C-TAZ-D	13-Dec-05	1,090	12.60	7.57	190	11.11
C-TAZ-M	13-Dec-05	1,060	12.50	8.04	186	11.03
C-TAZ-S	13-Dec-05	1,060	12.50	8.13	181	11.04
C-TAZ-D	19-Jan-06	1,220	12.18	8.08	212	10.60
C-TAZ-M	19-Jan-06	1,190	11.86	8.46	203	9.98
C-TAZ-S	19-Jan-06	1,160	11.64	8.71	204	10.13
C-TAZ-D	23-Mar-06	834	14.60	8.72	138	11.60
C-TAZ-M	23-Mar-06	835	14.76	8.70	139	11.54
C-TAZ-S	23-Mar-06	833	15.10	8.71	140	11.61
C-TAZ-D	15-Jun-06	900	28.71	7.19	135	5.22
C-TAZ-M	15-Jun-06	910	28.18	7.13	137	3.46
C-TAZ-S	15-Jun-06	910	28.53	7.11	143	3.37
C-TAZ-D	03-Oct-06	1,190	20.38	7.86	164	10.12
C-TAZ-M	03-Oct-06	1,170	20.36	7.93	165	9.72
C-TAZ-S	03-Oct-06	1,170	20.38	7.94	168	9.21

TABLE 9
Field Water Quality Measurements, September 2005 through October 2006
PG&E Topock Groundwater and Surface Water Monitoring Program

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.

Field water quality parameters from MW-33-40 and PGE-7 are not available for October 2005 monitoring event because wells were purged dry before readings could be collected.

Surface water station RRB was not sampled in December 2005 or January 2006 due to the location being dry.

Extraction well TW-2S was not sampled in December 2005 due to concurrent plumbing work for TW-3D and PE-1.

Field parameters from MW-33-40 in March 2006 were not available due to the well being purged dry before readings could be collected.

Specific conductance values for some of the shoreline surface water samples in March 2006 were not available due to a malfunctioning instrument.

Monitoring wells MW-12 and MW-29 were sampled in April rather than March 2006 due to inaccessibility to the wells from drilling operations in March.

Figures

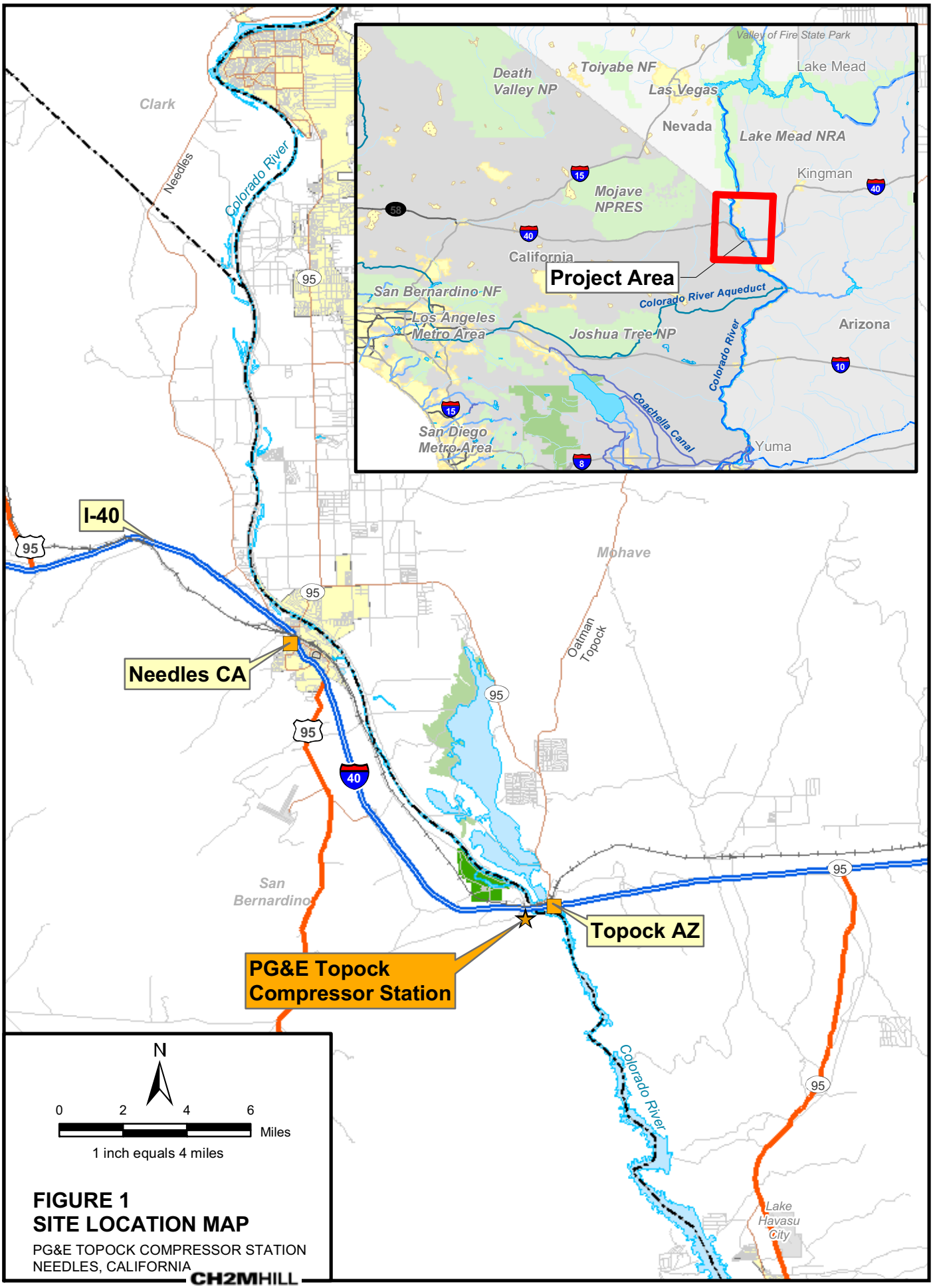
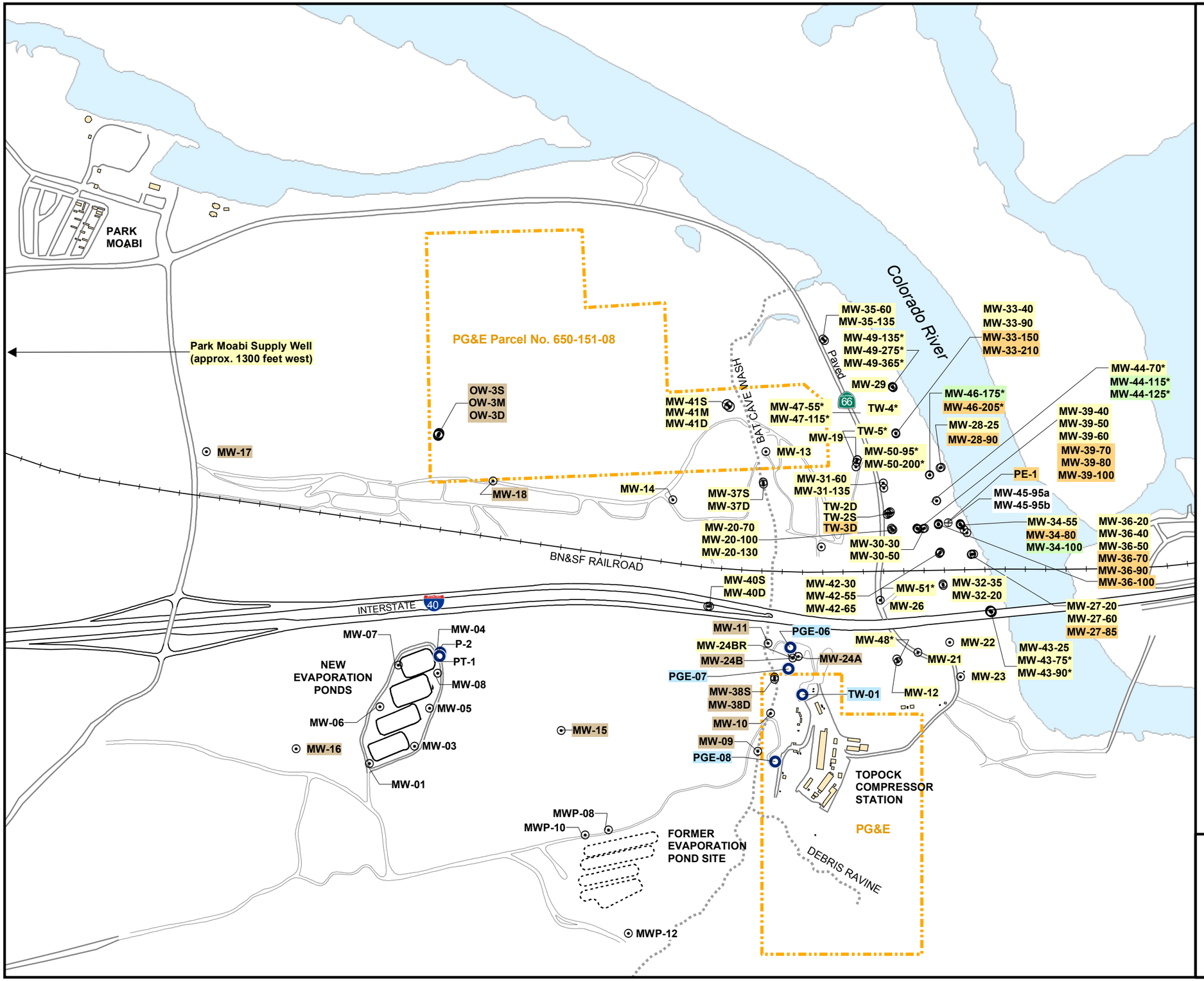


FIGURE 1
SITE LOCATION MAP

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

RDD \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2005\LOCATION_MAP_PORTRAIT.MXD 12/13/2005 16:33:49



LEGEND

- Groundwater Monitoring Well
- Test Well or Supply Well (Inactive)
- Extraction Well
- PG&E Property Boundary

Sampling Frequency for Groundwater and Surface Water Monitoring Program (GMP) - October 2006

PGE-06	Biennial Sampling
MW-10	Semi-Annual Sampling
MW-29	Quarterly Sampling
R-27	Monthly Sampling
MW-34-100	Bi-Weekly Sampling

* Interim Sampling Frequency

N

0 800 1,600 Feet

California State Plane NAD83 Zone 5 US Feet

FIGURE 2
MONITORING LOCATIONS AND SAMPLING FREQUENCY FOR GMP OCTOBER 2006
GROUNDWATER AND SURFACE WATER MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

N

0 1,000 2,000 Feet

1 inch equals 1,000 feet

LEGEND

River Channel Surface Water Sampling Location

Shoreline Surface Water Monitoring Location

C-NR4

C-NR3

NR-3

NR-2

C-NR1

NR-1

C-CON

CON

Park Moabi

PG&E Parcel No. 650-151-08

RRB

Colorado River

66

Topock Marsh

R-28

MW-34 Cluster

C-R27

R-27

C-MAR

Topock Marina

BAT CAVE WASH

BN & SF RAILROAD

INTERSTATE 40

C-R22

R-22

C-I-3

I-3

C-TAZ

NEW EVAPORATION PONDS

TOPOCK COMPRESSOR STATION

PG&E

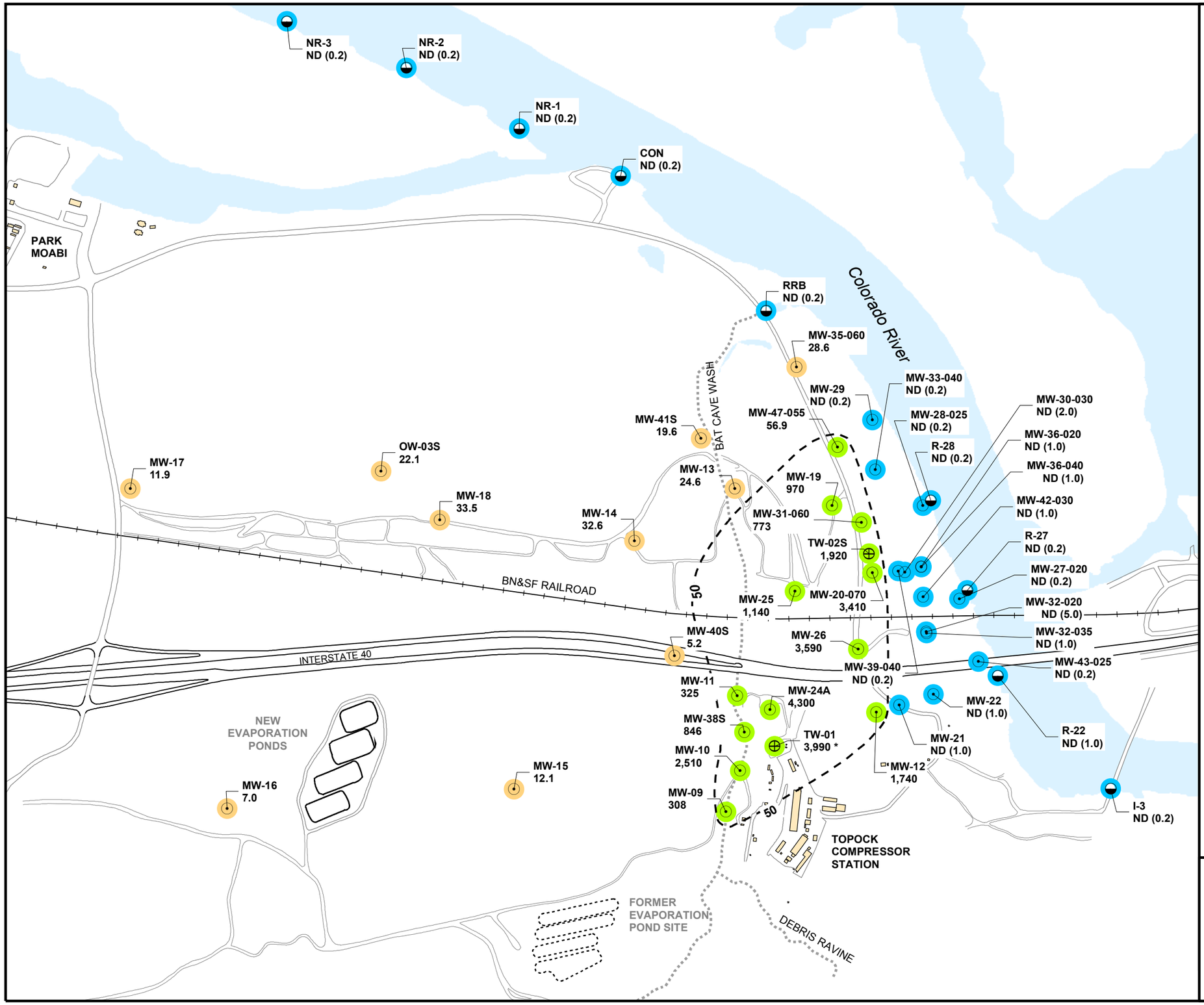
DEBRIS RAVINE

FORMER EVAPORATION POND SITE

FIGURE 3
SURFACE WATER MONITORING LOCATIONS OCTOBER 2006

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

CH2MHILL



LEGEND

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

6.48 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, October 2006 monitoring event. See Table 3 for complete results.

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

* Result from most recent sampling event prior to October 2006.

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

50 Approximate outline of monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

N

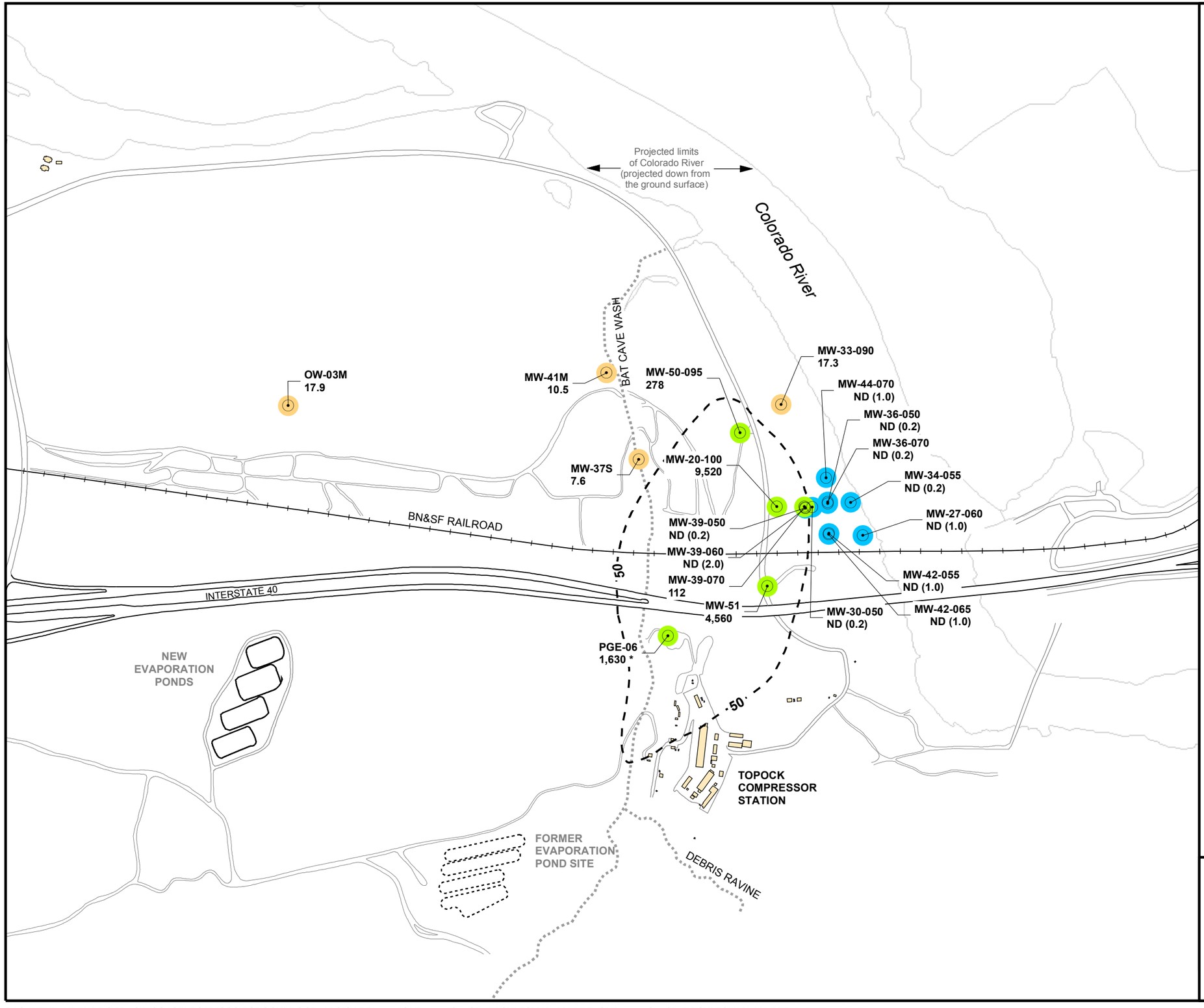
0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4A
CR(VI) SAMPLING RESULTS
UPPER DEPTH INTERVAL OF AQUIFER
3RD QUARTER 2006 MONITORING EVENT

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

CH2MHILL



LEGEND

- Monitoring, Test, or Supply Well
- Extraction Well

6.48 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, October 2006 monitoring event. See Table 3 for complete results.

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

* Result from most recent sampling event prior to October 2006.

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 monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

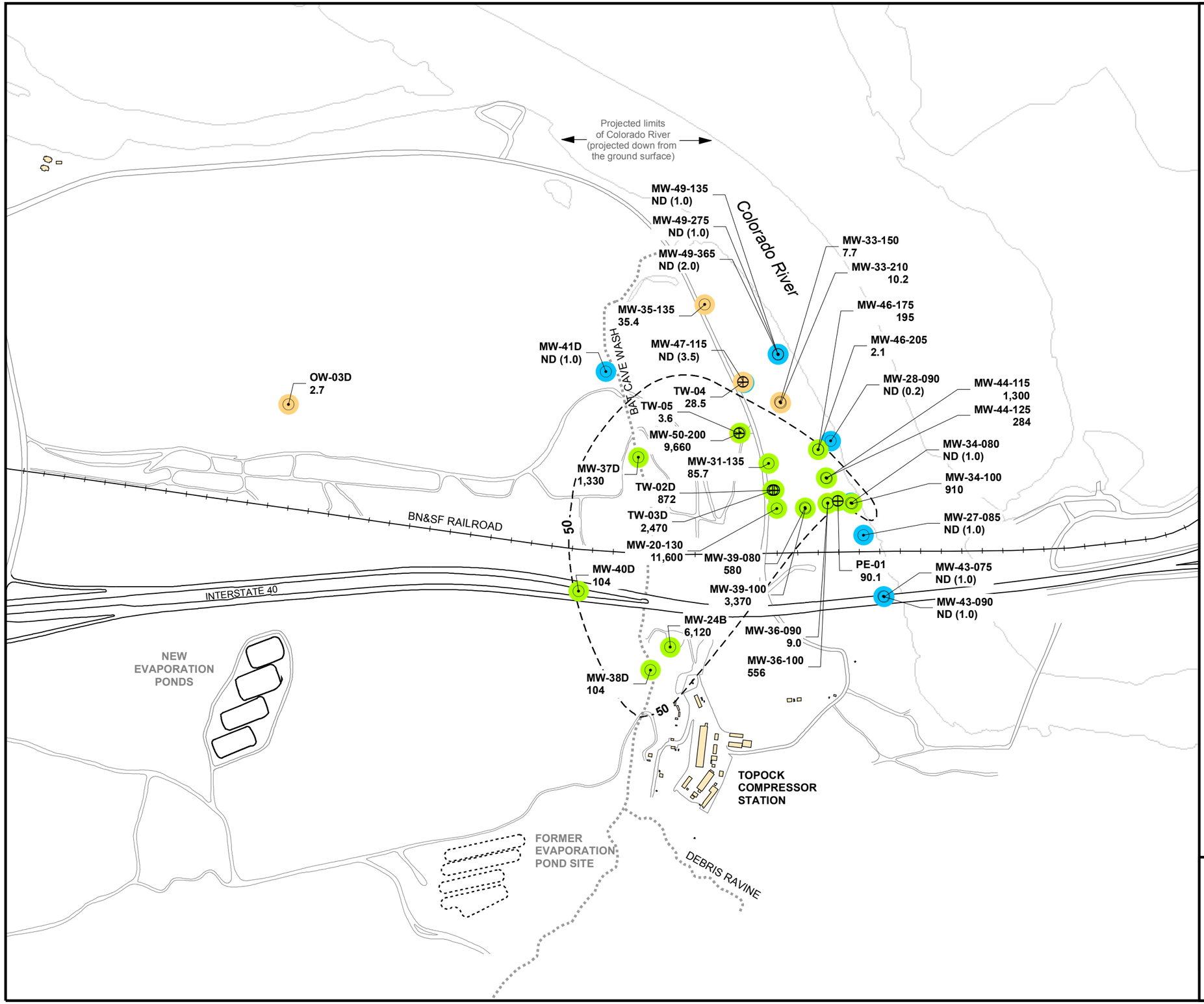
N

0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4B
CR(VI) SAMPLING RESULTS
MIDDLE DEPTH INTERVAL OF AQUIFER
3RD QUARTER 2006 MONITORING EVENT
GROUNDWATER AND SURFACE WATER
MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL



LEGEND

- Monitoring, Test, or Supply Well
- Extraction Well

6.48 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, October 2006 monitoring event. See Table 3 for complete results.

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

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 monitoring wells with Cr(VI) concentrations >= 50 µg/L (California drinking water standard for Total Chromium)

Refer to the Performance Monitoring Report for October 2006 (CH2M Hill 2006c) Figure 2-2 for the basis of the 50 µg/L outline shown in the floodplain area. The Cr(VI) distribution map for the lower depth interval incorporates all available data and depicts the inferred location of the Cr(VI) plume based upon analysis of the relevant hydrogeologic, water quality, and geochemical data collected during 2005-2006 site monitoring. There is no data confirming the existence of Cr(VI) under the Colorado River.

N

0 750 1,500 Feet

1 inch equals 750 feet

FIGURE 4C
CR(VI) SAMPLING RESULTS
LOWER DEPTH INTERVAL OF AQUIFER
3RD QUARTER 2006 MONITORING EVENT

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

CH2MHILL

PARK
M@ABI

Colorado River

457.0

456.5

456.0

455.5

455.0

66

MW-35-060*
455.05

MW-33-040*
NA

MW-31-060
454.53

MW-28-025*
454.56

MW-19*
454.82

OW-03S
456.65

OW-02S
(456.21)

OW-05S
456.46

OW-01S
456.31

MW-17
457.29

MW-41S
455.51

MW-13
455.53

MW-18
456.60

MW-14
456.08

BAT CAVE WASH

TW-2D
TW-3D

PE-01

MW-27-020*
454.56

MW-20-070*
453.61

BN & SF RAILROAD

MW-25
455.22

MW-26
455.05

MW-43-025*
454.50

INTERSTATE 40

MW-07
(455.94)

MW-04
(456.35)

NEW
EVAPORATION
PONDS

MW-08
456.64

MW-16
457.19

MW-06
456.80

MW-05
456.69

MW-01
(455.20)

MW-03
NA

MW-15
(456.84)

MW-11
455.72

MW-12
455.39

MW-24A
NA

MW-22
NA

MW-21
455.35

MW-10
(456.22)

MW-38S
(455.48)

TOPOCK
COMPRESSOR
STATION

MW-09
(456.56)

DEBRIS RAVINE

FORMER
EVAPORATION
POND SITE

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 (ft MSL)
- MW-20-100 (454.75) — Well name with water level elevation (ft MSL) not used in contouring
- MW-20-100* 454.75 — Groundwater Elevation from Transducer
- Groundwater Elevation Contour 0.5 ft
- Approximate Bedrock Contact at 455 ft
- NA — Data not available

Notes:

1. Water level contours for the floodplain area are presented in IM Performance Monitoring Reports.
2. Extraction wells TW-3D and PE-1 are pumping from lower portion of the aquifer.
3. Floodplain well data taken from pressure transducers at the time of manual measurements (approximately 11:00 AM).
4. Gradients shown on this figure show transient conditions in the aquifer at the time of measurement and may not reflect the expected average groundwater flow directions.

FIGURE 5
GROUNDWATER ELEVATION MAP
FOR UPPER INTERVAL (WATER TABLE)
OCTOBER 19, 2006 WATER LEVEL SURVEY

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

CH2MHILL

BAO \\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2006\GMP_SITE_SNAP_UA_Oct06.MXD

Appendix A
Field Data Sheets and Chain of Custody Records, October 2006

Topock Sampling Log

Project Name: PGE Topock GMP
Job Number: 338234.GM.02.00
Field Team: 1
Field Conditions:

Sampling Event: 2006-GMP-110-Q3
Date: 10/12
Page: __ of __

Well/Sample Number: MW-09-110
QC Sample ID: NA
QC Sample Time: NA
Purge Start Time: 9.11
Purge Method: 3CV
Ded. Pump: CD
Flow Cell: (V) / N
Min. Purge Volume (gal)/(L): 18.6
Purge Rate (gpm)/(mLpm): 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
86.80	914	24	6.65	3.52	15.2	7.09	27.34	0.18	2.3	175	
85.72	916	36	6.95	3.52	8.31	9.63	28.42	0.18	2.2	173	
85.81	918	48	7.14	3.51	3.52	9.85	28.57	0.18	2.2	170	
85.95	920	60	7.23	3.50	2.65	10.54	28.64	0.18	2.2	167	
86.23	922	72	7.24	3.49	2.04	11.39	29.69	0.18	2.2	166	

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	N	NA	Y	Y	Y
Previous Field measurement (3/7/2006)	6.96	3180	6.21	6.63	28.01	0.2		227
Are measurements consistent with previous?	Y	Y	N	N	NA	Y		N

Sample Time: 925 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___

Comments: Pump oscillating, DO did not stabilize.
well pad is being subsumbed by heavy rain runoff

Initial Depth to Water (ft BTOC): 80.05
Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (89.44)
SWH (Standing Water Height) = WD-Initial Depth 9.29
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) .66
One Casing Volume = D*SWH 6.14
Three Casing Volumes = 18.57

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

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	NA
8.54	9.34			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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/12/06
Page 1 of 1

Well/Sample Number MW-10-110 QC Sample ID NA QC Sample Time

Purge Start Time 1101 Purge Method SCV Ded. Pump CD

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 45 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
75.55	1103	10	7.49	2.67	11.3	8.60	28.62	0.13	1.7	106	
75.58	1105	20	7.44	2.91	5.16	8.02	28.53	0.15	1.9	109	
75.60	1107	30	7.44	2.99	3.61	7.68	28.58	0.15	1.9	111	
75.64	1109	40	7.44	3.05	2.19	7.56	28.58	0.15	2.0	111	
75.64	1111	50	7.43	3.09	2.53	7.59	28.61	0.15	2.0	113	
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				
Previous Field measurement (5/4/2006)			7.48	4500	2.88	4.98	29.01	0.2		146	
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 74.35

Field measured confirmation of Well Depth (ft btoc): ~~22.58~~

WD (Well Depth - from database) ft btoc (96.93)

SWH (Standing Water Height) = WD-Initial Depth 22.58

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

One Casing Volume = D*SWH 14.9

Three Casing Volumes = 44.7

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
1005	74.35			

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: 338234.GM.02.00
Field Team: 1 Field Conditions:

Sampling Event: 2006-GMP-110-Q3
Date: 10/12/06
Page: of

Well/Sample Number: MW-11-110 QC Sample ID: NA QC Sample Time:
Purge Start Time: 1417 Purge Method: 3CV Ded. Pump: CD Pump
Flow Cell: Y / N Min. Purge Volume (gal)/(L): 40 Purge Rate (gpm)/(mLpm): 4

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
67.52	1419	8	7.37	3.23	74.6	9.75	29.97	0.16	2.0	92	
67.48	1421	16	7.31	3.11	45.0	9.60	29.73	0.15	2.0	92	
67.48	1423	24	7.28	3.02	9.35	9.64	29.69	0.15	1.9	90	
67.48	1425	32	7.27	2.95	4.44	9.51	29.74	0.15	1.9	90	
67.48	1427	40	7.27	2.93	3.95	9.58	29.66	0.15	1.9	90	
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				
Previous Field measurement (5/9/2006)			7.35	3530	7	7.69	32.2	0.2		116	
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 66.37
Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (86.11)
SWH (Standing Water Height) = WD-Initial Depth 19.74
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) .66
One Casing Volume = D*SWH 13.02
Three Casing Volumes = 39.06

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: NA Time of Reinstallation: NA
1414	66.37	—	—	

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 338234.GM.02.00
Field Team 1
Field Conditions Sunny 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/04/06
Page 1 of 1

Well/Sample Number MW-12-110
QC Sample ID NA
QC Sample Time —
Purge Start Time 8:35
Purge Method Redi-Flow Ded. Pump —
Flow Cell (Y) N
Min. Purge Volume (gal)/(L) 43.4 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
	8:38	6									
28.76	8:41	12	7.97	5.59	832	5.10	29.81	0.29	3.6	162	
28.78	8:44	18	8.09	5.79	149	5.22	29.54	0.31	3.8	159	
28.78	8:47	24	8.17	5.96	65.4	5.25	29.44	0.32	3.9	154	
28.79	8:50	30	8.23	6.09	25.8	5.29	29.35	0.33	4.0	149	
28.79	8:53	36	8.27	6.21	30.0	5.29	29.32	0.33	4.0	144	
28.79	8:56	42	8.31	6.30	19.0	5.48	29.27	0.34	4.1	140	
28.79	8:59	48	8.35	6.35	7.07	5.27	29.26	0.34	4.1	135	
28.80	9:02	54	8.38	6.46	5.49	5.24	29.27	0.35	4.2	130	
28.80	9:05	60	8.41	6.51	3.29	5.22	29.26	0.35	4.2	128	
Parameter Stabilization Criteria			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	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/1/2006)			8.05	3840	1.58	—	28.1	0.2	—	-38	
Are measurements consistent with previous?			N	N	Y	—	NA	N	—	N	

Sample Time 9:07 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

PGE 2005-02

Initial Depth to Water (ft BTOC): 28.46
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (50.4)
SWH (Standing Water Height) = WD-Initial Depth 21.94
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) 0.66
One Casing Volume = D*SWH 14.48
Three Casing Volumes = 43.4

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: 12511

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

Comments:

Colors: (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 338234.GM.02.00
Field Team 1 Field Conditions Sunny, 105°F

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
Page 1 of 1

Well/Sample Number MW-13-110 **QC Sample ID** NA QC Sample Time
Purge Start Time 1333 Purge Method Rod/Flow 2 Ded. Pump Yes
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 38 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
32.99	1335	6	7.26	2.08	11.6	12.11	28.14	0.1	1.3	30	
32.98	1337	12	7.20	2.06	9.75	11.40	28.08	0.1	1.3	35	
32.99	1339	18	7.21	2.03	2.00	10.96	28.05	0.1	1.3	42	
33.06	1341	24	7.21	2.03	2.06	10.50	28.02	0.1	1.3	43	
33.05	1343	30	7.22	2.03	1.74	10.50	28.05	0.1	1.3	43	
33.05	1345	36	7.22	2.03	1.56	10.47	28.04	0.1	1.3	44	
33.06	1347	42	7.23	2.02	1.40	10.44	28.02	0.1	1.3	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 Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)			7.18	1990	1.18	4.17	28.7	0.1	—	80	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	Y	

Sample Time 1350 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: DO sensor not working properly

Initial Depth to Water (ft BTOC): 32.74
Field measured confirmation of Well Depth (ft btoc): Ded. Pump
WD (Well Depth - from database) ft btoc (52)
SWH (Standing Water Height) = WD-Initial Depth 19.26
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 12.7
Three Casing Volumes = 38.1

Measure Point: (Well TOC) Steel Casing (top of cap)
WATER LEVEL METER SERIAL NUMBER: PGE 2005-02

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

Comments:

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 338234.GM.02.00
Field Team 1
Field Conditions Sunny, 100°F

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
Page 1 of 1

Well/Sample Number MW-14-110
QC Sample ID MW-91-110
QC Sample Time 1400
Purge Start Time 1248
Purge Method CD Pump
Ded. Pump Yes
Flow Cell: (Y) / N
Min. Purge Volume (gal)/(L) 38.1
Purge Rate (gpm)/(mLpm) 6>5

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
116.20	1250	12	7.60	2.60	19.2	15.00	29.20	0.1	1.1	-9	
116.88	1251	17	7.40	1.70	12.3	12.90	28.52	0.1	1.0	12	
117.00	1252	22	7.37	1.63	10.4	13.60	28.55	0.1	1.0	14	
117.05	1253	27	7.33	1.59	9.81	12.50	28.53	0.1	1.0	15	
117.05	1254	32	7.32	1.58	13.7	12.40	28.53	0.1	1.0	-5	
117.08	1256	42	7.31	1.60	14.3	11.58	28.57	0.1	1.0	-1	
117.10	1258	52	7.29	1.58	11.1	12.18	28.55	0.1	1.0	8	
117.12	1300	62	7.29	1.58	7.98	12.50	28.55	0.1	1.0	11	
117.12	1302	72	7.29	1.58	7.25	12.37	28.55	0.1	1.0	15	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)			7.36	1610	3.96	3.92	29.2	0.1	—	49	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 114.58
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (133.83)
SWH (Standing Water Height) = WD-Initial Depth 19.25
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 12.7
Three Casing Volumes = 38.1

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: PG&E 2005-02

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Sunny 90F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
Page 1 of 1

Well/Sample Number MW-15-110 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1226 Purge Method CD Pump Ded. Pump Yes
Flow Cell: (Y) N Min. Purge Volume (gal) (L) 37 Purge Rate (gpm) (mLpm) 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
185.01	1227	6	7.44	3.23	36.4	9.30	30.10	0.1	1.8	-4	
185.05	1229	18	7.51	2.58	11.9	8.90	29.28	0.1	1.6	5	
185.06	1230	24	7.52	2.30	51.2	8.80	29.68	0.1	1.4	10	
185.08	1231	30	7.51	2.20	17.9	8.90	29.71	0.1	1.4	12	
185.08	1232	36	7.51	2.17	9.09	8.75	29.70	0.1	1.4	14	
185.09	1233	42	7.50	2.14	5.65	8.75	29.71	0.1	1.4	14	
185.08	1234	48	7.50	2.11	4.24	8.53	29.69	0.1	1.3	16	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (3/7/2006)			7.53	2590	3.54	7.73	29.84	0.1	—	81	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	N	

Sample Time 1235 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 184.51
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (203)
SWH (Standing Water Height) = WD-Initial Depth 18.49
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 12.2
Three Casing Volumes = 37

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

Odor: (none), sulphur, organic, other

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

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

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date
Page ____ of ____

Well/Sample Number MW-16-110 **QC Sample ID** NA QC Sample Time

Purge Start Time 1230 Purge Method Redi-flow Ded. Pump

Flow Cell: Y N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mL pm) 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
—	1235	5	8.11	1.92	57.7	4.54	35.40	0.08	1.2	50	
—	1240	10	7.92	1.68	20.6	5.00	33.11	0.08	1.1	44	
—	1245	15	7.82	1.74	13.5	5.07	32.96	0.08	1.1	42	
—	1250	20	7.75	1.73	6.54	5.15	33.01	0.08	1.1	43	
—	1255	25	7.74	1.66	3.59	5.23	32.92	0.08	1.1	45	
—	1300	30	7.72	1.62	4.21	5.27	32.87	0.08	1.1	47	
—	1305	35	7.72	1.67	8.01	5.32	32.94	0.07	1.0	51	
—	1308	38	7.72	1.64	9.16	5.34	32.89	0.08	1.1	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 Stabilize prior to sampling?							NA				
Previous Field measurement (5/3/2006)			7.3	1570	4.09	7.36	29.7	0.1		53	
Are measurements consistent with previous?							NA				

Sample Time 1310 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: water level below length of sounder

Initial Depth to Water (ft BTOC): 200.05

Field measured confirmation of Well Depth (ft btoc): —

WD (Well Depth - from database) ft btoc (218.15)

SWH (Standing Water Height) = WD-Initial Depth 14.10

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

One Casing Volume = D*SWH 11.9

Three Casing Volumes = 35.8

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 338234.GM.02.00
Field Team 1 Field Conditions Cloudy, 90F

Sampling Event 2006-GMP-110-Q3
Date 10/27/06
Page 1 of 1

Well/Sample Number MW-17-110 **QC Sample ID** NA **QC Sample Time** NA
Purge Start Time 0923 Purge Method CD Pump Ded. Pump Yes
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 42 Purge Rate (gpm)/(mLpm) 5

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
142.94	0924	5	7.50	1.98	99.0	7.10	29.13	0.1	1.3	90	
144.59	0926	15	7.24	1.87	58.8	5.94	29.36	0.1	1.2	86	
148.06	0928	25	7.33	1.87	47.0	6.22	29.51	0.1	1.2	85	Surging
148.19	0930	35	7.33	1.88	62.9	6.66	29.98	0.1	1.2	76	Top of pump?
149.31	0932	45	7.27	1.86	10.4	10.66	30.06	0.1	1.2	81	Sucking in air
149.22	0933	50	7.27	1.85	7.30	11.64	30.09	0.1	1.2	80	
148.30	0934	55	7.27	1.87	4.53	11.43	30.10	0.1	1.2	80	DO is meaningless
148.25	0935	60	7.26	1.87	3.24	12.46	30.12	0.1	1.2	79	and should be ignored
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	N	NA	Y	Y	Y	
Previous Field measurement (5/9/2006)			7.06	1670	5.47	5.24	33.71	0.08	—	74	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	Y	

Sample Time 0935 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 132.68
Field measured confirmation of Well Depth (ft btoc): Dedicated Pump
WD (Well Depth - from database) ft btoc (153.62)
SWH (Standing Water Height) = WD-Initial Depth 20.94
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 13.82
Three Casing Volumes = 41.5

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	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 338234.GM.02.00
Field Team 1 Field Conditions Sunny, 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/2/06 → 10/4/06
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Well/Sample Number MW-18-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 11:53 Purge Method Red. Flow 2 Ded. Pump No

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 35.4 Purge Rate (gpm)/(mLpm) ~~2.5~~ 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
88.52	11:56	~~459~~	7.82	5.65	>1000	5.92	33.06	0.24	2.7	-64	
88.53	11:59	~~518~~	7.88	2.00	587	6.84	31.36	0.09	1.3	-13	
88.55	12:02	27	7.77	1.76	233	7.78	31.06	0.08	1.1	14	
88.58	12:05	36	7.71	1.78	61.6	7.42	30.86	0.08	1.2	25	
88.58	12:08	45	7.69	1.82	56.3	7.72	30.81	0.09	1.2	30	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?	Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (5/1/2006)	7.28	2140	0.8	8.2	30.3	0.1	—	282	
Are measurements consistent with previous?	N	N	N	Y	NA	Y	—	N	

Sample Time 12:09 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 88.45 88.41 (10/4/06) Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005-02

Field measured confirmation of Well Depth (ft btoc): 106.35

WD (Well Depth - from database) ft btoc (106.68)

SWH (Standing Water Height) = WD-Initial Depth 17.90

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

One Casing Volume = D*SWH 11.8

Three Casing Volumes = 35.4

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 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny, 105°F

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-19-110 **QC Sample ID** NA **QC Sample Time** —
Purge Start Time 1415 **Purge Method** CP **Ded. Pump** Yes
Flow Cell: (Y) / N **Min. Purge Volume** (gal)/(L) 42 **Purge Rate** (gpm)/(mLpm) 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
46.42	1417	12	7.30	2.54	34.3	11.46	28.64	0.1	1.6	50	
46.55	1418	18	7.28	2.49	11.8	11.00	28.59	0.1	1.6	45	
46.60	1419	24	7.27	2.47	4.80	10.80	28.66	0.1	1.6	45	
46.67	1420	30	7.27	2.47	2.86	10.70	28.60	0.1	1.6	44	
46.70	1421	36	7.26	2.46	3.99	10.70	28.59	0.1	1.6	44	
46.72	1422	42	7.26	2.45	2.99	10.66	28.59	0.1	1.6	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	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)			7.33	2450	1.78	3.3	29	0.1	—	38	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	Y	

Sample Time 1425 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: DO is useless due to poor instrument

Initial Depth to Water (ft BTOC): 44.75
Field measured confirmation of Well Depth (ft bloc): Ded. Pump
WD (Well Depth - from database) ft btoc (65.77)
SWH (Standing Water Height) = WD-Initial Depth 21.02
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 13.9
Three Casing Volumes = 41.6

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

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

Comments:

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny 100°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-20-070-110 **QC Sample ID** MW-90-110 **QC Sample Time** 1200
Purge Start Time 1015 Purge Method CD Pump Ded. Pump Yes
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 46 Purge Rate (gpm)/(mLpm) 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
52.28	1016	7	7.49	3.46	16.7	8.00	28.52	0.2	2.2	120	
53.67	1017	14	7.47	3.46	4.08	8.03	28.56	0.2	2.2	120	
53.70	1018	21	7.47	3.45	17.5	7.98	28.59	0.2	2.2	119	Potential leaking pipe
59.55	1019	28	7.47	3.45	14.2	7.90	28.62	0.2	2.2	119	
59.95	1020	35	7.47	3.45	7.32	7.76	28.68	0.2	2.2	118	
60.30	1021	42	7.47	3.46	5.51	7.52	28.70	0.2	2.2	118	
60.55	1022	49	7.48	3.46	4.36	7.47	28.69	0.2	2.2	117	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/5/2006)			7.74	3050	2.09	7.21	29.32	0.15	—	97	
Are measurements consistent with previous?			Y	N	Y	Y	NA	Y	—	Y	

Sample Time 1025 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 46.30
Field measured confirmation of Well Depth (ft btoc): Ded. Pump
WD (Well Depth - from database) ft btoc (69.55)
SWH (Standing Water Height) = WD-Initial Depth 23.25
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 15.3
Three Casing Volumes = 46.0

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

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

Comments: ____

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny 90°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-20-100-110 **QC Sample ID** NA QC Sample Time —
Purge Start Time 0915 Purge Method CP Pump Ded. Pump Yes
Flow Cell: (Y) / N Min. Purge Volume (gal) (L) 108 Purge Rate (gpm) / (mLpm) 7

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
62.40	0918	14	7.42	4.09	11.4	4.25	28.83	0.2	2.6	101	
65.90	0919	28	7.41	4.10	1.77	4.16	28.96	0.2	2.6	101	
68.70	0921	42	7.40	4.22	27.5	3.78	29.09	0.2	2.7	102	
71.50	0923	56	7.40	4.27	25.5	3.56	29.10	0.2	2.7	102	
73.60	0925	70	7.40	4.29	29.4	3.49	29.11	0.2	2.7	103	
74.41	0927	84	7.40	4.30	26.9	3.42	29.13	0.2	2.8	107	
74.82	0929	98	7.42	4.35	20.9	3.70	29.05	0.2	2.8	1096	
74.95	0931	112	7.42	4.34	27.9	3.46	29.09	0.2	2.8	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	N	Y	NA	Y	Y	Y	
Previous Field measurement (5/5/2006)			7.72	3760	11.9	5.2	29.8	0.19	—	98	
Are measurements consistent with previous?			Y	N	N	Y	NA	Y	—	Y	

Sample Time 0935 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 46.90
Field measured confirmation of Well Depth (ft btoc): Red Pump
WD (Well Depth - from database) ft btoc (101.4)
SWH (Standing Water Height) = WD-Initial Depth 54.50
D (Volume as per diameter) 2"= 0.17', 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 36
Three Casing Volumes = 108

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

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

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 338234.GM.02.00
Field Team 1 Field Conditions Hot, sunny

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Date 6/18/06
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Well/Sample Number MW-20-130-110 QC Sample ID NA QC Sample Time NA

Purge Start Time 1325 Purge Method 3WV Ded. Pump no

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 165g Purge Rate (gpm)/(mLpm) 4.5 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
55.72	1335	45	8.09	15.1	0.87	2.78	30.45	0.90	10	73	
55.79	1345	90	7.92	20.8	1.27	2.94	30.62	1.25	13	75	
55.80	1355	135	7.92	20.0	1.60	2.78	30.49	1.20	13	77	
55.81	1400	157	7.92	19.7	1.11	2.73	30.35	1.18	13	77	
55.81	1405	180	7.91	19.5	1.43	2.68	30.41	1.16	13	78	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			yes	yes	yes	yes	NA			yes	
Previous Field measurement (5/5/2006)			7.74	12400	0.43	2.21	30.76	0.71		97	
Are measurements consistent with previous?							NA				

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

Comments: ____

1332 48 84

Initial Depth to Water (ft BTOC): 48.09

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

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (132.34)

SWH (Standing Water Height) = WD-Initial Depth 84

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

One Casing Volume = D*SWH 55

Three Casing Volumes = 165

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

84 / 100 / 504 / 540

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1316
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1417
1315	48.09	1422	48.28	

Comments:

Odor: none, sulphur, organic, other

55.44

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1
Field Conditions Sunny, 99°F

Sampling Event 2006-GMP-110-Q3
Date 10/2/06 - 10/3/06
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Well/Sample Number MW-21-110
QC Sample ID NA
QC Sample Time —
Purge Start Time 1502
Purge Method CD Pump
Ded. Pump Yes
Flow Cell: (P) N
Min. Purge Volume (gal)/(L) 17.1
Purge Rate (gpm)/(mLpm) NM purged dry

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
—	1503	1	6.93	16.1	—	7.20	28.32	0.9	10	-53	
—	1504	1.5	6.91	15.8	—	7.23	28.77	0.9	10	-59	
—	1505	2	6.91	15.9	—	6.90	28.50	0.9	10	-67	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	—	Y	NA	Y	Y	N	
Previous Field measurement (5/2/2006)			6.94	11500	—	—	30.2	0.65	—	-77	
Are measurements consistent with previous?			Y	N	—	—	NA	N	—	Y	

Sample Time 1538 10/3/06 Sample Location: pump tubing (X) well port ___ spigot ___ bailer X other ___
Comments: Purged dry / Sample collected on 10/3/06

Initial Depth to Water (ft BTOC): 49.80
Measure Point: (Well TOC) Steel Casing
WATER LEVEL METER SERIAL NUMBER: 2005-02
Field measured confirmation of Well Depth (ft btoc): — Ded Pump
WD (Well Depth - from database) ft btoc (58.45)
SWH (Standing Water Height) = WD-Initial Depth 8.65
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 5.7
Three Casing Volumes = 17.1

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

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Date 10/13/06
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Well/Sample Number MW-22-110 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1305 Purge Method 3 CV Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 3.2 Purge Rate (gpm)/(mLpm) ____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
7.66	1308	0.75	6.64	41.5	340	1.66	28.59	2.68	25	+101	
7.97	1310	1.25	6.63	41.7	142	1.32	28.32	2.69	25	-101	
7.98	1313	2.0	6.63	41.7	83.6	1.15	28.34	2.70	25	-101	
7.98	1316	2.75	6.62	41.8	70.5	1.02	28.17	2.70	26	-103	
7.99	1319	3.5	6.62	~~42.1~~ 42.1	54.9	0.97	28.05	2.72	26	-103	
7.99	1321	4.0	6.62	42.1	48.2	0.95	28.09	2.72	26	-104	
7.99	1323	4.5	6.62	42.2	52.2	0.97	28.07	2.73	26	-105	
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				
Previous Field measurement (5/3/2006)			7.05	34200	7.69	4.14	23.52	2.16		-88	
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 6.20

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (12.4)

SWH (Standing Water Height) = WD-Initial Depth 6.2

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 1.17

One Casing Volume = D*SWH 1.05

Three Casing Volumes = 3.16

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 ____
1303	6.20			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 338234.GM.02.00
Field Team 1 Field Conditions Sunny 85°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06 10/04/06
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Well/Sample Number MW-23-110 **QC Sample ID** NA QC Sample Time —
Purge Start Time 07:36 Purge Method CD Pump Ded. Pump Yes
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 58 Purge Rate (gpm)/(mLpm) ~5

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
63.90	0737	5	6.45	22.6	48.7	4.20	27.38	1.3	14	40	
65.90	0738	10	6.65	21.9	12.7	2.60	27.42	1.3	13	43	
69.30	0740	20	6.80	21.7	3.81	2.09	27.45	1.3	14	44	
71.65	0742	25	6.90	22.2	2.97	2.01	27.38	1.3	14	40	Pumped Dry
10/04/06 53.08	1516	9.5	7.62	21.2	142	6.14	30.34	1.28	14	40	Sample Collected

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?	Y	N	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)	6.85	16200	30.7	—	29.6	0.92	—	-13	
Are measurements consistent with previous?	Y	N	N	—	NA	N	—	N	

Sample Time 1516 (10/4/06) Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ORP didn't calibrate w/in range

Initial Depth to Water (ft BTOC): 52.10
Field measured confirmation of Well Depth (ft btoc): Ded. Pump
WD (Well Depth - from database) ft btoc (81.45)
SWH (Standing Water Height) = WD-Initial Depth 29.35
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 19.4
Three Casing Volumes = 59

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

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

Comments:

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny, 110°F

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Date 10/3/06
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Well/Sample Number MW-24B-110 A
QC Sample ID NA **QC Sample Time** —
Purge Start Time 1315 **Purge Method** CO Pump **Ded. Pump** Yes
Flow Cell: (Y) / N **Min. Purge Volume** (gal)/(L) 33 **Purge Rate** (gpm)/(mLpm) 5

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
112.25	1317	10	7.60	3.90	2.54	4.70	29.00	0.2	2.5	97	
112.35	1318	15	7.52	3.87	2.35	3.23	29.06	0.2	2.5	100	
112.40	1319	20	7.48	3.88	2.27	2.86	29.11	0.2	2.5	100	
112.42	1320	25	7.44	3.90	1.60	2.85	29.13	0.2	2.5	100	
112.44	1321	30	7.44	3.91	1.24	2.85	29.12	0.2	2.5	100	
112.45	1322	35	7.42	3.91	1.26	2.87	29.14	0.2	2.5	101	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	Y	Y	Y	Y	
Previous Field measurement (5/4/2006)			7.47 ~~7.62~~	3.48 ~~24000~~	47.5 ~~44.7~~	5.17 ~~2.71~~	28.11 ~~30.23~~	NA ~~1.8~~	—	234 ~~449~~	
Are measurements consistent with previous?			Y	Y	N	N	NA	Y	—	N	

Sample Time 1325 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ORP calibrate low out of range

Initial Depth to Water (ft BTOC): ~~108.67~~ BS 110.00
Field measured confirmation of Well Depth (ft btoc): D-d Pump
WD (Well Depth - from database) ft btoc ~~(214.84)~~ 127.48
SWH (Standing Water Height) = WD-Initial Depth 16.46
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 10.9
Three Casing Volumes = 33

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

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

Comments:

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 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny 100°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-24B-110 **QC Sample ID** NA **QC Sample Time** —
Purge Start Time 1214 B **Purge Method** CDPump **Ded. Pump** Yes
Flow Cell: (Y) N **Min. Purge Volume** (gal)(L) 27 **Purge Rate** (gpm)(mLpm) 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
118.75	1216	12	7.95	18.0	5.72	4.02	31.26	1.1	11	80	
119.10	1217	18	7.95	18.0	8.27	3.00	30.67	1.1	11	81	
119.40	1218	24	7.92	18.1	3.53	2.70	30.55	1.1	11	83	
119.60	1219	30	7.90	18.5	0.96	2.68	30.49	1.1	12	84	
119.75	1220	36	7.87	18.8	1.53	2.65	30.41	1.1	12	85	
119.75	1221	42	7.85	18.8	2.10	2.65	30.41	1.1	12	85	
119.80	1225	66	7.84	18.9	5.82	2.69	30.33	1.1	12	86	
121.80	1235	126	7.85	18.5	3.55	2.75	30.29	1.1	11	85	
122.20	1245	186	7.85	18.6	3.95	2.73	30.34	1.1	12	85	
122.35	1250	216	~~7.85~~ 0.1 pH units	18 ~~+/- 3%~~	3 ~~+/- 10% NTU~~ units when >10 NTUs	2 ~~+/- 0.3~~ mg/L	30 ~~NA~~	1 NA	12 NA	83 ~~+/- 10 mV~~	
Parameter Stabilization Criteria											
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (3/6/2006)			7.62 ~~7.47~~	24000 ~~3140~~	11.7 ~~42.5~~	2.71 ~~6.47~~	20 ~~20.11~~	1.5 ~~0.2~~	—	49 ~~220~~	
Are measurements consistent with previous?			Y	N	N	N	NA	Y	—	N	

Sample Time ~~1223~~ 1252 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 108.67
Field measured confirmation of Well Depth (ft btoc): Ded. Pump
WD (Well Depth - from database) ft btoc ~~427.48~~ 214.84
SWH (Standing Water Height) = WD-Initial Depth ~~318.81~~ 106.2
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 In)
One Casing Volume = D*SWH 17.4
Three Casing Volumes = ~~53.2~~ 214

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 200502

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 338234.GM.02.00
Field Team 1 **Field Conditions**

Sampling Event 2006-GMP-110-Q3
Date 11/1/06
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Well/Sample Number MW-24BR-110 **QC Sample ID** NA **QC Sample Time**
Purge Start Time 0850 **Purge Method** Redi flow **Ded. Pump** —
Flow Cell (Y) / N **Min. Purge Volume (gal)/(L)** **Purge Rate (gpm)/(mL.pm)** 350 mL/m

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
119.60	0853	90.5	8.19	17.6	7.19	2.00	33.30	1.04	11	-158	Clear, No Odor
135.35	0858	28	8.00	17.7	6.67	1.18	31.10	1.06	12	-189	" "
144.99	1003	45.5	7.88	17.9	9.29	1.19	31.02	1.06	12	-199	" "
154.55	1008	63	7.82	17.8	10.7	1.19	30.86	1.06	12	-201	Odor
163.20	1013	80.5	7.75	17.8	9.52	1.22	30.75	1.06	12	-199	" "
168.21	1018	98	7.72	17.8	7.75	1.23	30.56	1.06	12	-197	No Odor
178.55	1023	115.5	7.71	17.9	6.81	1.24	30.33	1.06	12	-196	" "
188.65	1028	133	7.68	18.0	6.32	1.19	31.13	1.08	12	-203	
197.32	1033	150.5	7.68	18.0	6.33	1.13	31.81	1.07	12	-205	
155.41	1905		7.39	17.3	6.84	1.20	36.40	1.02	11	-183	
Parameter Stabilization Criteria			pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Previous Field measurement (6/5/2006)			6.81	12700	4.78		41.92	0.72		-287	
Are measurements consistent with previous?							NA				

Sample Time 1510 Sample Location: pump tubing X well port spigot bailer other
Comments: Well dewatered @ 200' @ 1037. Restarted pump @ 1445

Initial Depth to Water (ft BTOC): 107.65
Field measured confirmation of Well Depth (ft btoc): ✓
WD (Well Depth - from database) ft btoc (441)
SWH (Standing Water Height) = WD-Initial Depth 333.35
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 220.0
Three Casing Volumes = 660.0

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions Cool, cloudy

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
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Well/Sample Number MW-24BR-110 **QC Sample ID** NA QC Sample Time N/A

Purge Start Time 0821/1333 Purge Method grundfos / Waterra Ded. Pump N

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 661 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
	0823	4	6.96	11.8	18.0	4.31	27.08	0.73	8	16	well is dry, lowering pump
117.05	0828	6	7.30	19.1	6.27	5.01	29.12	1.14	12	-132	DTW = 119 well, went dry, lowing pump again
124.20	0836	8	7.52	19.5	11.2	5.97	30.07	1.17	13	-149	
131.80	0838	10	7.66	19.5	6.93	1.58	31.73	1.16	13	-203	
	0841	15									
121.35	0851										Well dry again, can't drop pump any further.
											start purging w/ Waterra
											-- Waterra did not work,
											could not do well.
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?											
Previous Field measurement (6/5/2006)			6.81	12700	4.78		NA				
Are measurements consistent with previous?							41.92	0.72		-287	
							NA				

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

Comments: set pump @ 200' after 2nd time well was dry. Came back to well with Waterra pump to try to purge & sample.

Initial Depth to Water (ft BTOC): 107.37

Field measured confirmation of Well Depth (ft btoc): not a cluster

WD (Well Depth - from database) ft btoc (441)

SWH (Standing Water Height) = WD-Initial Depth 333.63

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

One Casing Volume = D*SWH 220.2

Three Casing Volumes = 660.59

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE 2005-03

Initial DTW / Before Removal		If Transducer		
Time	Initial DTW	Approx. 5 min After Reinstallation Time	Approx. 5 min After Reinstallation Final DTW	Time of Removal N/A
0801	107.37	N/A	N/A	Time of Reinstallation N/A
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 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny 85°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-25-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 0824 **Purge Method** CD Pump **Ded. Pump** Yes

Flow Cell: (Y) / N **Min. Purge Volume** (gal)/(L) 38.2 **Purge Rate** (gpm)/(mLpm) 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
92.40	0825	6	7.50	1.78	2.97	6.14	28.54	0.1	1.1	68	
92.70	0826	12	7.44	1.76	1.92	6.31	28.62	0.1	1.1	70	
93.30	0827	18	7.43	1.75	1.07	6.41	28.61	0.1	1.1	73	
95.30	0828	24	7.41	1.74	2.43	6.68	28.62	0.1	1.1	74	
95.45	0829	30	7.40	1.74	3.92	6.75	28.58	0.1	1.1	78	
95.44	0830	36	7.40	1.73	4.38	6.80	28.61	0.1	1.1	79	
95.57	0831	42	7.39	1.72	4.61	6.88	28.62	0.1	1.1	81	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/3/2006)			7.06	2110	8.13	7.72	30.7	0.1	—	98	
Are measurements consistent with previous?			Y	Y	N	Y	NA	Y	—	Y	

Sample Time 0835 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ORP calibrated low today

Initial Depth to Water (ft BTOC): 87.27

Field measured confirmation of Well Depth (ft btoc): Ded. Pump

WD (Well Depth - from database) ft btoc (106.54)

SWH (Standing Water Height) = WD-Initial Depth 19.27

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

One Casing Volume = D*SWH 12.7

Three Casing Volumes = 38.1

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	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 338234.GM.02.00
Field Team 1
Field Conditions Sunny 105°F

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-26-110
QC Sample ID NA
QC Sample Time —
Purge Start Time 15:07
Purge Method CP Pump
Ded. Pump Yes
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 46
Purge Rate (gpm)/(mLpm) 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
53.00	1508	6	7.21	4.21	4.22	6.60	29.29	0.2	2.7	102	
58.20	1509	12	7.20	4.20	42.3	5.96	29.33	0.2	2.7	101	
61.00	1511	24	7.22	4.18	63.8	6.21	29.61	0.2	2.7	101	Water @ intake of pump
64.?	1512	30	7.22	4.17	141	6.96	29.71	0.2	2.7	102	
64.10	1513	36	7.21	4.18	94.1	11.95	29.72	0.2	2.7	103	Air in discharge
65.20	15.14	42	7.21	4.07	79.8	12.66	29.74	0.2	2.6	103	
65.70	1515	48	7.20	4.14	55.4	12.43	29.74	0.2	2.6	104	
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	N	NA	Y	Y	Y	
Previous Field measurement (5/1/2006)			7.14	3290	18.6	—	30.3	0.17	—	—	
Are measurements consistent with previous?			Y	Y	N	—	NA	Y	—	—	

Sample Time 1520 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ORP off due to air in discharge, DO + Turbidity off due to air in discharge

Initial Depth to Water (ft BTOC): 47.00
Field measured confirmation of Well Depth (ft btoc): Ded Pump
WD (Well Depth - from database) ft btoc (70.05)
SWH (Standing Water Height) = WD-Initial Depth 22.05
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 4
One Casing Volume = D*SWH 15.2
Three Casing Volumes = 45.6

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

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

Comments:

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 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-27-020-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 837 Purge Method 3CV Ded. Pump BF-3

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 5 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
6.05	840	3	7.81	1.34	4.50	4.25	23.55	0.06	0.9	-38	
6.07	842	5	7.62	1.64	1.85	1.10	22.95	0.08	1.1	-120	
6.08	844	7	7.56	1.54	1.04	0.77	22.85	0.07	1.0	-149	
6.09	846	9	7.52	1.39	1.80	0.63	22.81	0.07	0.9	-163	
6.08	848	11	7.50	1.33	1.22	0.63	22.78	0.06	0.9	-169	
6.08	850	13	7.49	1.29	0.88	0.53	22.78	0.06	0.8	-173	
6.10	852	15	7.49	1.24	0.74	0.48	22.78	0.06	0.8	-176	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	~	Y	NA	—	—	Y	
Previous Field measurement (6/14/2006)			7.53	2730	0.96	4.57	23.79	0.1	—	-178	
Are measurements consistent with previous?			Y	N	Y	N	NA	Y	—	Y	

Sample Time 855 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___

Comments: well in good condition. Dedicated pump

Initial Depth to Water (ft BTOC): 5.59

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc (14.4)

SWH (Standing Water Height) = WD-Initial Depth 8.81

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

One Casing Volume = D*SWH ~~14.98~~ M2, 1.48

Three Casing Volumes = 4.48

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 NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
830	5.59	—	—	
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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, Hot

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-27-685-110 060 QC Sample ID NA QC Sample Time NA
Purge Start Time 1008 Purge Method 3 CV Ded. Pump NA
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 27 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
7.09	1013	10	7.54	9.88	9.27	3.50	23.97	0.81	9	-107	
7.09	1015	14	7.57	14.4	1.88	1.18	22.55	0.84	9	-116	
7.10	1017	18	7.54	14.4	1.18	0.91	22.34	0.84	9	-120	
7.10	1019	22	7.51	14.4	0.86	0.80	22.21	0.84	9	-121	
7.10	1021	26	7.49	14.4	0.91	0.76	22.12	0.83	9	-122	
7.10	1022	30	7.47	14.3	0.83	0.76	22.07	0.83	9	-122	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stabilize prior to sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (9/6/2006)	~~7.56~~ 6.91	~~23200~~ 12100	~~0.81~~ 2.43	~~2.44~~ 1.02	~~27.34~~ 26.96	~~1.42~~ 0.68	—	~~-87~~ -140
Are measurements consistent with previous?	N	N close	N	N	NA	N	—	N close

Sample Time 1025 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments:

Initial Depth to Water (ft BTOC): 6.60
Field measured confirmation of Well Depth (ft btoc): 58' 8"
WD (Well Depth - from database) ft btoc ~~(80)~~ 59
SWH (Standing Water Height) = WD-Initial Depth 52.06
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 0.17
One Casing Volume = D*SWH 8.85
Three Casing Volumes = 26.55

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 946
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1039
944	6.60	~~1038~~ 1044	6.75	
Comments:		1046		

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 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
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Well/Sample Number ~~MW-50-095-110~~ MW-27-085-110 **QC Sample ID** NA QC Sample Time

Purge Start Time 1157 Purge Method ____ Ded. Pump ____

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 40 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
9.58	1200	6	7.06	24.2	1.68	3.40	20.64	1.47	15	-89	
9.60	1203	12	6.94	24.1	2.63	1.64	21.06	1.47	15	-86	
9.61	1206	18	6.94	24.1	2.44	1.44	21.22	1.47	15	-84	
9.62	1209	24	6.93	24.1	2.60	1.26	21.24	1.47	15	-82	
9.62	1212	30	6.93	24.2	1.96	1.17	21.13	1.48	15	-81	
9.63	1215	36	6.93	24.1	1.92	1.12	21.21	1.47	15	-79	
9.65	1218	42	6.93	24.1	1.61	1.07	21.27	1.47	15	-78	
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				
Previous Field measurement (5/24/2006)			~~7.36~~		~~8.9~~	~~3.42~~	~~31.08~~			~~50~~	
Are measurements consistent with previous?							NA				

Sample Time 1220 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 7.56 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ~~(96.45)~~ NA 85

SWH (Standing Water Height) = WD-Initial Depth 77.44

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17

One Casing Volume = D*SWH 13.16

Three Casing Volumes = 39.49

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
1155	7.56			
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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-27-~~060~~-110 085 mz
QC Sample ID NA QC Sample Time NA
Purge Start Time 0918 Purge Method 3CV Ded. Pump RF-2
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 27 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
7.78	921	6	6.81	22.8	1.36	1.45	21.88	1.39	15	-62	
7.77	923	10	6.86	22.6	1.12	0.78	21.96	1.38	15	-64	
7.77	925	14	6.88	22.5	1.07	0.78	22.18	1.36	15	-60	
7.79	928	20	6.90	22.5	1.15	0.54	22.19	1.36	15	-61	
7.79	931	26	6.92	22.4	0.86	0.44	22.17	1.36	15	-63	
7.79	933	30	6.94	22.5	0.76	0.41	22.17	1.36	15	-64	
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	Y	NA	-	-	Y	
Previous Field measurement (5/1/2006)			~~6.01~~ 7.56	~~12480~~ 23200	~~2.43~~ 0.81	~~4.02~~ 2.44	48.98 27.3	~~0.68~~ 1.42		~~440~~ -87	
Are measurements consistent with previous?			Y	~~N~~ Y	~~N~~ Y	Y	NA	-	-	N	

Was resampled on 10/13/06. Enter purge info from there.

Sample Time 935 Sample Location: pump tubing Y well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 6.50
Field measured confirmation of Well Depth (ft btoc): NM
WD (Well Depth - from database) ft btoc (~~58~~) ~~80~~ (KLB)
SWH (Standing Water Height) = WD-Initial Depth ~~51.5~~ 73.5
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17
One Casing Volume = D*SWH ~~8.93~~ 12.5 (KLB) =
Three Casing Volumes = ~~26.78~~ 37.5 (KLB)

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 NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
09 15	6.50	NA	NA	
Comments:				

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

KLB check
Purge Calc Wrong - corrected, will resample tomorrow per Ellen's direction

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2
Field Conditions Sunny, Breezy, 90°F

Sampling Event 2006-GMP-110-Q3
Date 10/11/06
Page 1 of

Well/Sample Number MW-28-025-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1233
Purge Method _____ **Ded. Pump** Redi-flo
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 4/1.5gal **Purge Rate (gpm)/(mLpm)** 1GPM

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
13.23	1236	0	7.29	1.77	58.8	8.48	24.06	.08	1.1	-87	
13.23	1237	1	7.14	1.77	26.4	3.81	24.25	.08	1.1	-94	
13.23	1238	2	7.10	1.82	23.0	2.84	24.20	.09	1.2	-101	
13.23	1239	3	7.08	1.84	19.9	2.39	24.20	.09	1.2	-105	
13.23	1240	4	7.07	1.86	13.8	2.03	24.15	.09	1.2	-106	
13.23	1241	5	7.06	1.87	5.87	1.80	24.15	.09	1.2	-109	
13.23	1242	6	7.05	1.87	4.27	1.63	24.16	.09	1.2	-109	
13.23	1243	7	7.05	1.86	3.24	1.54	24.13	.09	1.2	-111	
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	✓	✓	✓	
Previous Field measurement (5/5/2006)			6.75	1260	3.55	0.75	23.9	0.06		-126	
Are measurements consistent with previous?			N	N	Y	N	NA	Y	✓	Y	

Sample Time 1245 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____
Comments: _____

Initial Depth to Water (ft BTOC): 12.39
Field measured confirmation of Well Depth (ft btoc): _____
WD (Well Depth - from database) ft btoc (21.13)
SWH (Standing Water Height) = WD-Initial Depth 8.74
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 1.5
Three Casing Volumes = 4.5

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

Initial DTW / Before Removal		NA 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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
Page ____ of ____

Well/Sample Number MW-28-090-110 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 921 Purge Method ____ Ded. Pump NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 4/4 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
14.62	925	8	7.55	8.62	36.4	3.91	19.19	0.48	5.5	-146	
14.67	928	14	7.47	9.44	20.0	1.70	20.22	0.53	6.0	-149	
14.67	931	20	7.46	9.55	7.90	1.32	20.33	0.53	6.0	-150	
14.68	934	26	7.45	9.59	2.49	1.19	20.36	0.53	6.0	-152	
14.68	937	32	7.45	9.62	3.44	1.12	20.37	0.54	6.0	-152	
14.69	940	38	7.45	9.67	2.19	1.05	20.41	0.54	6.1	-155	
14.69	943	44	7.46	9.70	1.88	1.00	20.54	0.54	6.1	-156	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	—	Y	
Previous Field measurement (9/8/2006)			7.5	7830	0.17	3.17	21.78	0.4		-133	
Are measurements consistent with previous?			Y	N	N	N	NA	Y	—	Y	

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

Comments: ____

Initial Depth to Water (ft BTOC): 12.82

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc (98.36)

SWH (Standing Water Height) = WD-Initial Depth 85.54

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17

One Casing Volume = D*SWH 14.54

Three Casing Volumes = 43.62

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

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 0915 / Time of Reinstallation 1456
914	12.82	1001	12.97	

Comments: ____

Odor: (none), sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
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Well/Sample Number MW-29-110 **QC Sample ID** NA **QC Sample Time** ___

Purge Start Time 8:17 820 Purge Method 3 CV Ded. Pump ~~A.E.-2~~ NA

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 6.0 Purge Rate (gpm)/(mLpm) 0.5

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
	825	2.5	6.94	5.07	775	3.92	23.81	0.35	4.3	-117	
	827	3.5	6.90	11.2	— *	2.13	23.81	0.67	7	-132	
	829	4.5	6.91	13.7	—	1.48	24.02	0.73	8	-126	
	831	5.5	7.04	8.06	—	2.10	24.35	0.54	6	-92	
	833	6.5	~~6.59~~ 7.01	6.59	—	3.39	24.57	0.33	3.9	-70	
	836	8.0	7.12	5.55	—	4.37	24.66	0.29	3.4	-65	
	838	9.0	7.13	5.22	918	4.96	24.81	0.27	3.2	-63	
	841	10.5	7.14	4.93	481	5.13	25.06	0.25	3.1	-58	
	843	11.5	7.14	4.77	380	5.26	25.18	0.25	3.1	-56	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?							NA				
Previous Field measurement (5/5/2006)			6.75	4430	196	1.26	30.9	0.25		-128	
Are measurements consistent with previous?							NA				

Sample Time 0900 Sample Location: pump tubing ___ well port ___ spigot ___ bailer ___ other ___

Comments: * Water was too turbid to read. Water right below pump.

Initial Depth to Water (ft BTOC): 30.25

Field measured confimation of Well Depth (ft btoc): ___

WD (Well Depth - from database) ft btoc (41.52)

SWH (Standing Water Height) = WD-Initial Depth 11.27

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17

One Casing Volume = D*SWH 1.92

Three Casing Volumes = 5.74

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
8:10	30.25	—	—	

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

480-784-6250

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2
Field Conditions Cloudy, Breezy, 92°F

Sampling Event 2006-GMP-110-Q3
Date 10/10/06
Page 1 of ____

Well/Sample Number MW-30-030-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1351
Purge Method Mobile Redi flo
Ded. Pump ____
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) 6.8
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
14.80	1352	0	6.98	56.4	182	6.37	27.83	3.50	32	-100	
14.84	1353	1	6.90	54.1	110	3.40	27.74	3.58	32	-105	
14.87	1354	2	6.91	54.3	49.4	2.51	27.57	3.60	33	-114	
14.88	1355	3	6.91	54.5	18.6	2.14	27.53	3.62	33	-121	
14.88	1356	4	6.91	54.8	13.6	1.80	27.49	3.66	33	-123	
14.89	1357	5	6.91	55.2	11.9	1.64	27.52	3.68	33	-125	
14.89	1358	6	6.91	55.8	11.2	1.49	27.51	3.71	34	-127	
14.89	1359	7	6.91	56.2	12.1	1.41	27.51	3.76	34	-129	
14.89	1400	8	6.91	56.5	10.7	1.39	27.42	3.78	34	-129	
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	✓	✓	✓	
Previous Field measurement (5/2/2006)			6.57	54600	26	2.38	29.6	3.6		-104	
Are measurements consistent with previous?			N	Y	Y	N	NA	Y	—	N	

Sample Time 1400
Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 14.09
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (26.9)
SWH (Standing Water Height) = WD-Initial Depth 12.81
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 2.2
Three Casing Volumes = 6.5

Measure Point: (Well TOC) Steel Casing
WATER LEVEL METER SERIAL NUMBER: PGE 2005-C3

Initial DTW / Before Removal		If Transducer (NA) 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 338234.GM.02.00
Field Team 2
Field Conditions Sunny, 65°F, Calm

Sampling Event 2006-GMP-110-Q3
Date 10/17/06
Page 1 of ____

Well/Sample Number MW-30-050-110
QC Sample ID MW-92-110
QC Sample Time ~~0925~~ 0920
Purge Start Time 0817
Purge Method ____ Ded. Pump Redi-Flo
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) 75 gal 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
14.73	0820	0 TML	6.60	7.62	2.41	3.86	24.39	0.42	4.8	-134	
14.76	0825	10	7.04	8.33	1.40	1.07	24.52	0.46	5.3	-132	
14.76	0830	20	7.10	9.33	1.29	0.89	24.69	0.52	5.9	-127	
14.78	0835	30	7.13	9.11	0.93	0.84	24.62	0.51	5.7	-122	
14.79	0840	40	7.14	9.15	0.73	0.81	24.66	0.51	5.8	-117	
14.79	0845	50	7.14	9.31	1.02	0.79	24.77	0.52	5.9	-115	
14.79	0850	60	7.15	9.10	0.87	0.78	24.82	0.52	5.7	-115	
14.81	0855	70	7.15	8.60	0.85	0.76	24.79	0.48	5.4	-114	
14.82	0900	80	7.15	8.49	1.03	0.75	24.85	0.47	5.3	-114	
14.83	0905	90	7.16	9.28		0.75	24.85	0.45	5.2	-113	
Parameter Stabilization Criteria			pH units	+/- 5%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (5/2/2006)			6.84	14300	0.28	2.82	27.8	0.8		-102	
Are measurements consistent with previous?			Y	N	N	N	NA	Y	✓	Y	

Sample Time 0905 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

PGE-2005-C3
Initial Depth to Water (ft BTOC): ~~15.05~~ 14.40
Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: ____
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (52.6)
SWH (Standing Water Height) = WD-Initial Depth 38.20
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 25.1
Three Casing Volumes = 75.6

Initial DTW / Before Removal		NA 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 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-31-060-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time ~~1448~~ 1520 **Purge Method** CD Pump **Ded. Pump** Yes

Flow Cell: (Y) N **Min. Purge Volume** (gal)/(L) 43 **Purge Rate** (gpm)/(mLpm) 210

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
~~45.90~~	~~1521~~	15	~~7.50~~	3.48	9.24	7.54	28.26	0.2	2.3	80	Low flow/ spigot partially closed/ open @ 1420
45.35	1522	25	7.49	3.49	5.40	7.46	28.28	0.2	2.2	81	
45.50	1523	35	7.49	3.46	5.06	7.75	28.29	0.2	2.2	81	
45.56	1524	45	7.47	3.44	4.82	7.75	28.32	0.2	2.2	82	
45.65	1525	55	7.46	3.44	5.86	7.77	28.30	0.1	2.2	82	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?	Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/1/2006)	7.4	2740	2.44	—	29.4	0.13	—	—	
Are measurements consistent with previous?	Y	~	N	—	NA	N	—	—	

Sample Time 1535 **Sample Location:** pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 42.18

Field measured confirmation of Well Depth (ft btoc): Not Clusfer

WD (Well Depth - from database) ft btoc (64)

SWH (Standing Water Height) = WD-Initial Depth 21.82

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

One Casing Volume = D*SWH 14.4

Three Casing Volumes = 43.2

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

Odor: (none), sulphur, organic, other

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

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** 2005-02

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

Comments:

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
Page 1 of 1

Well/Sample Number MW-31-135-110 **QC Sample ID** NA **QC Sample Time** ~
Purge Start Time 1428 **Purge Method** RediFlow 2 **Ded. Pump** Yes
Flow Cell: (Y) / N **Min. Purge Volume** (gal)/(L) 46.4 **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
46.17	1430	6	7.13	10.00	950	4.45	31.20	0.5	6.0	85	
46.21	1432	12	7.39	9.57	9.58	3.83	30.47	0.5	6.0	82	
46.20	1434	18	7.52	11.9	2.82	3.63	30.36	0.7	8.0	75	
46.21	1436	24	7.62	12.7	1.74	3.50	30.20	0.7	8	71	
46.18	1438	30	7.68	13.1	6.00 ~~695~~	3.42	30.21	0.8	8	69	Flow rate is same
46.16	1440	36	7.70	13.3	~~29~~ ~~695~~	3.38	30.14	0.8	8	68	
46.24	1442	42	7.72	13.4	~~69~~ ~~52.5~~	3.26	29.93	0.8	8	67	
46.28	1444	48	7.72	13.4	45.4	3.16	29.61	0.8	8	66	
46.36	1448	60	7.73	13.6	1.29	3.04	29.43	0.8	8	65	
46.38	1451	69	7.73 +/- 0.3 pH units	13.6 +/- 3%	2.15 +/- 10% NTU units when >10 NTUs	2.96 +/- 0.3 mg/L	29.44	0.8	8	65 +/- 10 mV	
46.37	1453	75	7.73	13.6		2.91	29.48	0.8	8	65	
Parameter Stabilization Criteria							NA		NA		
Did Parameters Stablize prior to sampling?			Y	Y	~~Y~~ N	Y		Y	Y	Y	
Previous Field measurement (5/9/2006)			7.58	15900	164	2.75	31.92	0.9	—	82	
Are measurements consistent with previous?			Y	N	N	Y	NA	Y	—		

Sample Time 1453 **Sample Location:** pump tubing X well port spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 44.38
Field measured confirmation of Well Depth (ft btoc): Not Closter
WD (Well Depth - from database) ft btoc (135.45)
SWH (Standing Water Height) = WD-Initial Depth 91.07
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 15.5
Three Casing Volumes = 46.4

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** 2005-02

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1415 / Time of Reinstallation 1515
1410	44.38	1520	44.48	

Comments:

Color: clear, grey, yellow, (brown), black, cloudy, green PST was 60gal but math OK KLB **Odor:** (none) sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-32-020-110 QC Sample ID NA QC Sample Time NA

Purge Start Time 1300 Purge Method 3CV Ded. Pump BF-2

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 6 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
9.67	1302	2	7.09	63.4	450	3.48	31.18	–	42	-126	
9.70	1304	4	6.37	65.2	165	1.65	30.54	–	42	-128	
		Stopped to check Horiba SC sensor, Clean sensor. Check w/ Cal solution									
	1330	Restart purge									
10.03	1333	3	6.30	53.8	93.1	1.99	31.47	3.54	35	-97	
10.21	1335	5	6.46	57.8	207	1.06	30.57	3.91	38	-111	
9.70	1337	7	6.61	60.6	165	0.94	30.35	–	39	-116	
9.72	1339	9	6.72	59.8	150	0.91	30.32	3.79	39	-122	
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	–	–	N	
Previous Field measurement (5/4/2006)			6.11	25500	91.4	0.4	29.7	1.57		-120	
Are measurements consistent with previous?			Y	N	N	N	NA	N		Y	

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

Comments: Pump is pulling up filter pack sand. Readings will not stabilize.
Sample may be bad - broken screen, but will still run samples as okd by Shawn Duffy

Initial Depth to Water (ft BTOC): 7.28
Field measured confirmation of Well Depth (ft btoc): NM
WD (Well Depth - from database) ft btoc (19.6)
SWH (Standing Water Height) = WD-Initial Depth 12.32
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 0.17
One Casing Volume = D*SWH 2.09
Three Casing Volumes = 6.28

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 NA
1256	7.28	—	—	Time of Reinstallation NA

Comments:

Color: clear, grey, yellow, brown, black, (very 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 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-32-035-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1400 Purge Method 3 CV Ded. Pump RF-2

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 60 Purge Rate (gpm)/(ml.pm) 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
9.58	1403	6	7.94	17.7	7.66	1.69	27.60	1.07	12	-157	
9.58	1407	14	7.79	20.8	5.09	1.16	26.56	1.26	14	-157	
10.00	1411	22	7.73	21.0	4.05	0.97	26.38	1.27	14	-156	
10.02	1415	30	7.70	20.5	1.43	0.86	26.22	1.24	13	-158	
10.02	1419	38	7.70	20.2	0.95	0.79	26.09	1.22	13	-159	
10.02	1423	46	7.69	20.0	0.79	0.75	26.00	1.20	13	-160	
10.03	1427	54	7.69	19.9	0.63	0.72	26.04	1.19	13	-161	
10.04	1431	62	7.69	20.0	0.66	0.69	26.19	1.20	13	-162	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	NA	NA	Y	
Previous Field measurement (5/4/2006)			6.57	16500	2.74	0.26	28.7	0.98		-171	
Are measurements consistent with previous?			N	N	N	Y	NA	Y	—	Y	

Sample Time 14:33 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 7.31

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (37.15)

SWH (Standing Water Height) = WD-Initial Depth 29.84

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) .66

One Casing Volume = D*SWH 19.69

Three Casing Volumes = 59.08

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

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 ____ / Time of Reinstallation ____
1355	7.31	—	—	

Comments: ____

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Rainy, cool

Sampling Event 2006-GMP-110-Q3
Date 10/16/06
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Well/Sample Number MW-33-040-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0840 Purge Method bailer Ded. Pump N

Flow Cell (Y) N Min. Purge Volume (gal)/(L) ~~4~~ 4.5 Purge Rate (gpm)/(mLpm) NA - grab

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
	0841	—	7.23	8.74	14.6	—	24.10	0.49	5.5	183	clear
	0844	1 gal	7.61	8.80	163	—	25.10	0.49	5.5	176	cloudy
	0847	2	7.73	8.91	164	—	25.10	0.49	5.6	170	cloudy
	0851	3	7.83	8.44	180	—	25.41	0.47	5.3	164	cloudy
	0854	4	7.93	8.02	686	—	25.08	0.44	5.0	163	cloudy
38.31	0859	5	8.07	7.08	>1000	—	24.55	0.38	4.4	159	cloudy, brown, silty
	0918	6	8.07	6.71	>1000	—	23.80	0.36	4.2	167	cloudy

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	N	N	—	NA	—	—	Y	
Previous Field measurement (5/4/2006)	7.15	4580	377	5.25	33.1	0.24	—	12	
Are measurements consistent with previous?	N	N	N	—	NA	Y	—	N	

Sample Time 0910 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other grab

Comments: Collected sample with a bailer because there is not enough water in the well to pump it, well does not recharge fast. Don't collect DO w/ grab sample

Initial Depth to Water (ft BTOC): 32.15

Field measured confirmation of Well Depth (ft btoc): 40.86

WD (Well Depth - from database) ft btoc (41.84)

SWH (Standing Water Height) = WD-Initial Depth ~~9.69~~ 8.71

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

One Casing Volume = D*SWH ~~6.39~~ ~~1.65~~ 1.48

Three Casing Volumes = ~~19.19~~ ~~4.9~~ 4.5

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	0829
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	0920
0826	32.15	0925	33.70		

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 338234.GM.02.00
Field Team 2 **Field Conditions** raining, cool

Sampling Event 2006-GMP-110-Q3
Date 10/6/06
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Well/Sample Number MW-33-090-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 0950 **Purge Method** grundfos **Ded. Pump** N

Flow Cell (Y) / N **Min. Purge Volume** (gal) (L) 111 **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
32.80	0956	12	7.50	12.3	15.4	2.90	25.51	0.70	8	167	clear
32.84	1004	28	7.47	12.9	4.62	1.37	26.47	0.74	8	145	clear
32.85	1012	44	7.47	12.7	3.98	1.19	26.59	0.73	8	134	clear
32.86	1020	60	7.47	12.6	2.85	1.04	26.68	0.72	8	126	clear
32.88	1028	76	7.47	12.6	2.37	1.02	26.88	0.72	8	121	clear
32.89	1036	92	7.47	12.5	0.98	0.99	27.80	0.72	8	116	clear
32.90	1044	108	7.47	12.5	0.69	0.94	27.22	0.72	8	112	clear
32.90	1052	124	7.47	12.5	0.47	0.95	27.28	0.72	8	110	clear
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	
Previous Field measurement (5/3/2006)			6.75	10400	0.91	0.4	32.2	0.58	—	-44	
Are measurements consistent with previous?			N	~	Y	~	NA	~	—	N	

Sample Time 1100 **Sample Location:** pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 32.34
Field measured confirmation of Well Depth (ft btoc): 88.25
WD (Well Depth - from database) ft btoc (88.28)
SWH (Standing Water Height) = WD-Initial Depth 55.94
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 36.92
Three Casing Volumes = 110.8

Measure Point: (Well TOC) / Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 0808 / Time of Reinstallation 1113
0806	32.34	1118	32.64	

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 338234.GM.02.00
Field Team 2 **Field Conditions** Sunny, hot, windy

Sampling Event 2006-GMP-110-Q3
Date 10/6/06
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Well/Sample Number MW-33-150-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1314 **Purge Method** grundfos **Ded. Pump** N

Flow Cell: (Y) N **Min. Purge Volume** (gal)(L) 62 **Purge Rate** (gpm)(mLpm) 32

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	1316	4	7.41	12.8	1.66	5.61	30.50	0.77	8	118	clear
35.18	1320	12	7.40	19.9	0.61	1.69	27.91	1.20	12	98	clear
35.20	1324	20	7.43	19.9	1.22	1.27	27.89	1.20	12	89	clear
35.24	1328	28	7.46	20.2	0.61	1.10	27.97	1.21	13	70	clear
35.23	1332	36	7.46	20.3	0.42	1.04	27.95	1.22	13	-2	clear
35.24	1336	44	7.46	20.4	1.14	0.99	27.97	1.23	13	-13	clear
35.25	1340	52	1336 7.45	20.5	0.50	0.96	27.95	1.23	13	-4	clear
35.25	1344	60	7.45	20.5	0.44	0.93	28.10	1.24	13	7	clear
35.26	1346		7.45	20.5	0.62	0.91	28.10	1.24	13	13	clear
35.26	1348	68	7.45	20.5	0.62	0.91	28.10	1.24	13	15	clear
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	
Previous Field measurement (9/8/2006)			7.61	17900	0.45	1.79	27.22	1.1	—	28	
Are measurements consistent with previous?			~	N	Y	~	NA	Y	—	~	

Sample Time 1350 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): 33.43

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (155)

SWH (Standing Water Height) = WD-Initial Depth 121.57

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

One Casing Volume = D*SWH 20.67

Three Casing Volumes = 62

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1258 / Time of Reinstallation 1358
1258	33.43	1403	33.51	

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 338234.GM.02.00
Field Team 2 **Field Conditions** Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/6/06
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Well/Sample Number MW-33-210-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time ~~12:00~~ 1210 **Purge Method** grundfos **Ded. Pump** Y

Flow Cell (Y) / N **Min. Purge Volume** (gal)/(L) 97 **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
35.05	1211	3	7.34	24.2	1.01	6.92	26.91	1.48	15	157	clear
35.15	1215	15	7.29	24.1	0.55	2.73	26.98	1.48	15	139	clear
35.15	1219	27	7.29	24.3	0.36	1.74	27.22	1.49	15	129	clear
35.15	1223	39	7.29	24.3	0.36	1.34	27.30	1.49	15	109	clear
35.18	1227	51	7.28	24.2	0.33	1.17	27.34	1.48	15	81	clear
35.20	1231	63	7.28	24.1	0.31	1.07	27.34	1.47	15	60	clear
35.21	1235	75	7.28	24.0	0.22	1.00	27.37	1.47	15	46	clear
35.23	1239	87	7.27	24.0	0.28	0.94	27.35	1.47	15	34	clear
35.25	1243	99	7.27	24.0	0.32	0.94	27.36	1.47	15	28	clear
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	
Previous Field measurement (9/8/2006)			7.4	21000	0.61	1.68	26.9	1.3	—	59	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	—	Y	

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

Comments: ____

Initial Depth to Water (ft BTOC): 33.06
Field measured confirmation of Well Depth (ft btoc): only well w/ dedicated pump.
WD (Well Depth - from database) ft btoc (223)
SWH (Standing Water Height) = WD-Initial Depth 189.94
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 32.29
Three Casing Volumes = 96.87

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** PGE-2005-C3

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	N/A
1131	33.06		N/A	Time of Reinstallation	N/A

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 338234.GM.02.00
Field Team 2 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number MW-34-055-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 0930 Purge Method 3 CV Ded. Pump RF-2

Flow Cell: (Y) N Min. Purge Volume (gal) (L) 100 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
6.28	0934	8	7.10	1.83	2.35	4.70	21.53	0.1	1.2	141	
6.29	0942	24	7.16	2.58	2.03	2.87	19.84	0.1	1.8	28	
6.33	0950	40	7.15	3.07	1.36	2.59	20.00	0.2	2.0	-158	
6.34	0958	56	7.18	3.03	1.18	2.36	19.91	0.2	1.9	-177	
6.37	1006	72	7.20	3.02	1.22	2.26	20.08	0.2	1.9	-188	
6.39	1014	88	7.22	3.06	1.32	2.20	20.01	0.2	2.0	-182	
6.42	1022	104	7.24	3.08	1.26	2.17	20.03	0.2	2.0	-178	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (5/3/2006)			6.64	7580	289	0.33	27.4	0.41		-117	
Are measurements consistent with previous?			N	N	N	N	NA	N	—	Y	

Sample Time 1025 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Well in good condition. Needs new label.

Initial Depth to Water (ft BTOC): 6.01

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc (56.6)

SWH (Standing Water Height) = WD-Initial Depth 50.59

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

One Casing Volume = D*SWH 33.39

Three Casing Volumes = 100.2

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
913	6.01			

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 338234.GM.02.00
Field Team 2 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number MW-34-080-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1237 Purge Method 3 CV Ded. Pump RF-2

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 152 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
9.24	1242	15	6.99	11.1	1.88	3.21	20.08	0.6	7	-200	
9.27	1249	36	6.94	11.0	1.36	2.77	20.50	0.6	7	-199	
9.30	1256	57	6.88	13.9	0.95	2.53	20.97	0.8	9	-154	
9.30	1303	78	6.90	14.0	1.00	2.40	21.05	0.8	9	-137	
9.31	1310	99	6.90	14.1	0.94	2.29	20.80	0.8	9	-126	
9.33	1317	120	6.90	14.3	1.00	2.21	20.83	0.8	9	-118	
9.34	1324	141	6.91	14.3	1.23	2.16	20.88	0.8	9	-113	
9.36	1328	152	6.91	14.4	1.13	2.12	20.88	0.8	9	-111	
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 ok	-	Y	
Previous Field measurement (9/6/2006)			7.75	16000	0.37	0.95	24.62	0.94		-84	
Are measurements consistent with previous?			N	Y	N	N	NA	Y	-	N	

Sample Time 1330 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: Not comparable to previous data because summer sampling procedures were used in September.

Initial Depth to Water (ft BTOC): 7.79

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (84.3)

SWH (Standing Water Height) = WD-Initial Depth 76.51

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) .66

One Casing Volume = D*SWH 50.5

Three Casing Volumes = 151.5

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 NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation
1232	7.79			
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 338234.GM.02.00
Field Team 2 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number MW-34-100-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 933 1050 Purge Method 3CV Ded. Pump RF-3

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 56 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
8.06	1057	14	7.43	20.8	1.66	5.17	21.88	1.3	13	29	
8.06	1100	20	7.43	20.6	1.24	2.33	21.74	1.2	13	16	
8.08	1103	26	7.40	20.6	1.48	2.14	21.77	1.2	13	8	
8.09	1106	32	7.39	20.6	1.20	2.07	21.84	1.2	13	4	
8.10	1109	38	7.39	20.6	1.15	2.07	21.93	1.2	13	3	
8.11	1112	44	7.40	20.7	1.65	2.05	21.92	1.2	13	1	
8.11	1115	50	7.40	20.7	1.16	2.04	21.91	1.2	13	0	
8.11	1118	56	7.40	20.7	1.28	2.03	21.89	1.2	13	0	
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	
Previous Field measurement (9/20/2006)			7.83	19600	0.36	1.52	25.45	1.17		181	
Are measurements consistent with previous?			Y	Y	N	Y	NA	Y	—	N	

Sample Time 1120 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 7.11

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (117)

SWH (Standing Water Height) = WD-Initial Depth 109.89

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

One Casing Volume = D*SWH 18.68

Three Casing Volumes = 56.0

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	Initial DTW	Time	Final DTW	Time of Removal NA / Time of Reinstallation NA
0950	7.11			

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 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10-12-06
Page ____ of ____

Well/Sample Number MW-35-060-110 QC Sample ID NA QC Sample Time

Purge Start Time 1430 Purge Method 2" Redy flow Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 13.87 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
30.17	1432	4	8.16	13.6	142	1.50	32.31	0.78	9	117	
30.17	1434	8	8.14	13.1	71.5	1.40	31.64	0.74	8	117	
30.18	1436	12	8.10	12.6	21.0	1.29	30.80	0.72	8	116	
30.19	1438	16	8.06	12.5	8.4	1.26	30.38	0.72	8	115	TIME IS ~~1432~~ 1438
30.19	1440	20	8.03	12.4	4.49	1.28	30.06	0.71	8	113	
30.20	1442	24	8.01	12.2	2.40	1.26	29.84	0.70	8	112	
	1444	28									CONTROLLER GROUND FAULT
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				
Previous Field measurement (5/1/2006)			7.15	6770	0.52		29.8	0.36		-37	
Are measurements consistent with previous?							NA				

Sample Time 1448 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 29.60

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (56.8)

SWH (Standing Water Height) = WD-Initial Depth 27.2

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

One Casing Volume = D*SWH 4.62

Three Casing Volumes = 13.87

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 1421
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1508
1421	29.60	1515	29.70	

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

Topock Sampling Log

Project Name: PGE Topock GMP
Job Number: 338234.GM.02.00
Field Team: 1
Field Conditions:

Sampling Event: 2006-GMP-110-Q3
Date: 10-12-06
Page: ____ of ____

Well/Sample Number: MW-35-135-110
QC Sample ID: MW-93-110
QC Sample Time: 1320
Purge Start Time: 1336
Purge Method: 2" Redy Flow Ded. Pump:
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L): 66.12 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
30.68	1339	3	7.90	14.2	6.92	3.0	31.31	0.86	10	103	
30.68	1342	12	8.05	14.8	2.03	1.52	31.41	0.86	10	107	
30.70	1345	21	8.10	14.9	1.84	1.34	31.35	0.86	10	110	
30.70	1348	30	8.14	15.0	1.46	1.24	31.03	0.87	10	111	
30.72	1351	39	8.17	14.8	1.07	1.18	30.80	0.85	10	112	
30.72	1354	48	8.19	14.7	1.05	1.19	31.04	0.85	10	113	
30.72	1358	57	8.19	14.5	1.40	1.20	31.06	0.85	10	113	
30.72	1401	66	8.19	14.4	1.35	1.20	31.01	0.85	10	113	
30.72	1404	75	8.19	14.4	0.98	1.20	31.03	0.85	10	113	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	DUPLICATE SAMPLE TIME WAS MADE AT = 1320
Did Parameters Stablize prior to sampling?							NA				
Previous Field measurement (5/2/2006)			7.39	13000	0.36	2.7	28	0.7		0	
Are measurements consistent with previous?							NA				

Sample Time: 1409 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 29.05
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (158.7)
SWH (Standing Water Height) = WD-Initial Depth 129.65
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 22.04
Three Casing Volumes = 66.12

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: 1326
Time	Initial DTW	Time	Final DTW	Time of Reinstallation: 1416
1325	29.05	1421	29.05	

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 338234.GM.02.00
Field Team 3 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-36-020-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 0952 Purge Method peristaltic Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 1.0 gal Purge Rate (gpm)/(mLpm) 0.25 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
15.00	0954	—	7.04	23.5	89.2	2.76	25.35	1.42	14	-164	cloudy
15.00	0956	1/4	7.12	23.3	37.5	2.48	25.34	1.41	14	-166	
15.00	0957	1/2	7.14	23.2	25.3	2.41	25.31	1.42	14	-169	clear
15.00	0958	3/4	7.17	23.4	16.6	2.10	25.28	1.43	15	-173	clear
15.00	0959	1	7.18	23.5	10.4	2.02	25.27	1.44	15	-175	clear
15.00	1000	1 1/4	7.19	23.7	7.7	1.91	25.28	1.45	15	-176	clear
15.00	1001	1 1/2	7.19	24.0	6.3	1.84	25.27	1.47	15	-177	clear
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	
Previous Field measurement (5/1/2006)			7.78	20100	1.13	5.28	25.42	1.21		-180	
Are measurements consistent with previous?			N	N	N	N	NA	Y		Y	

Sample Time 1005 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: DO lower than 5/1/06 meas. but stable (maybe dropping still?)
Turb. ↑ than 5/1/06 but within specs

Initial Depth to Water (ft BTOC): 14.68

Field measured confirmation of Well Depth (ft btoc): 20 ft.

WD (Well Depth - from database) ft btoc (22.7)

SWH (Standing Water Height) = WD-Initial Depth 8.02 use only if > column

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

One Casing Volume = D*SWH 0.33

Three Casing Volumes = 1.0 gal

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

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE-2005-013

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 0922
Time	Initial DTW *	Time	Final DTW	Time of Reinstallation 1215
0924	14.68			

Comments: not able to do DTW w/ trans cluser in-well.

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06 / 10/05/06
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Well/Sample Number MW-36-040-110 **QC Sample ID** NA QC Sample Time —

Purge Start Time 0908 Purge Method peristaltic Ded. Pump N

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 3.4 Purge Rate (gpm)/(mLpm) 0.5

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
10/5/06 15.10	0909	~~0.5~~	7.27	13.7	18.5	4.29	24.14	0.80	9	-175	
15.13	0910	1	7.28	14.2	18.2	2.26	23.96	0.83	9	-184	
15.12	0911	2	7.29	14.5	17.9	1.98	24.11	0.85	9	-187	
15.13	0913	2.5	7.29	14.9	6.82	1.66	24.01	0.88	9	-190	
15.12	0914	3	7.30	15.3	3.19	1.50	23.98	0.91	10	-192	
15.12	0916	3.5	7.30	16.0	2.01	1.37	23.94	0.94	10	-194	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (5/1/2006)			7.83	13500	1.07	5.1	26.08	0.78	—	-179.	
Are measurments consistent with previous?			Y	N	Y	N	NA	—	—	N	

Sample Time 0921 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 15.46 / 14.95

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (42.75)

SWH (Standing Water Height) = WD-Initial Depth 27.29 / 27.80

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

One Casing Volume = D*SWH 1.12 / 1.14

Three Casing Volumes = 3.4 / 3.4

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

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005-1A

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1258 / 0856
1301	15.46 / ~~0856~~ 14.95	1905	16.8	Time of Reinstallation 1316 / 0928

Comments: Cannot take a DTW w/ transducer installed.

Odor: none, sulphur, (organic), other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 **Field Conditions** sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/05/06
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Well/Sample Number MW-36-050-110 **QC Sample ID** NA **QC Sample Time**
Purge Start Time 0831 **Purge Method** Peristaltic **Ded. Pump** N
Flow Cell: Y / N **Min. Purge Volume (gal)/(L)** 4.8 **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
	0831		6.81	4.35	6.69	5.64	24.17	0.22	2.8	-100	
	0833	1	7.19	4.19	7.66	2.76	23.65	0.21	2.7	-125	
	0834	2	7.32	4.15	3.49	2.16	23.49	0.21	2.7	-139	
	0835	3	7.32	4.14	3.67	1.88	23.41	0.21	2.7	-147	
	0836	4	7.43	4.16	3.76	1.62	23.37	0.21	2.7	-156	
	0839	5	7.48	4.20	1.29	1.39	23.35	0.22	2.7	-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 Stabilize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (5/1/2006)			7.9	6810	0.74	3.6	25.96	0.37		-162	
Are measurements consistent with previous?			Y	N	Y	N	NA	Y		Y	

Sample Time 0845 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: Couldn't get WL tape in well while sampling

Initial Depth to Water (ft BTOC): 14.76
Field measured confirmation of Well Depth (ft btoc): NM
WD (Well Depth - from database) ft btoc (53.3)
SWH (Standing Water Height) = WD-Initial Depth 38.54
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (1 in)
One Casing Volume = D*SWH 1.58
Three Casing Volumes = 4.74

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PG&E 2005-1B

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	0819
0819	14.76	—	—	Time of Reinstallation	0857

Comments: Cannot take a DTW w/ Transducer installed

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 338234.GM.02.00
Field Team 3 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
Page 1 of 1

Well/Sample Number MW-36-070-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1031 Purge Method peristaltic Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 7.1 gal Purge Rate (gpm)/(mLpm) 0.1

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
14.83	1038	—	7.62	4.72	2.77	4.29	26.25	0.25	3.0	-88	clear
14.88	1048	1	7.48	5.34	0.73	2.01	24.96	0.28	3.4	-72	clear
14.90	1058	2	7.43	5.37	0.56	1.83	25.05	0.28	3.4	-84	clear
14.91	1108	3	7.42	5.14	0.49	1.75	25.28	0.27	3.2	-95	clear
14.73	1118	4	7.42	5.08	0.38	1.73	25.39	0.27	3.2	-105	clear
14.96	1128	5	7.41	5.12	0.52	1.66	25.43	0.27	3.2	-112	clear
14.95	1138	6	7.41	5.16	0.45	1.53	25.59	0.27	3.2	-118	clear
14.96	1148	7	7.41	5.19	0.52	1.46	25.65	0.27	3.3	-121	clear
15.00	1158	8	7.40	5.22	0.50	1.43	25.77	0.27	3.3	-122	clear
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	
Previous Field measurement (9/7/2006)			7.34	5930	0.56	1.7	23.6	0.3		-105	
Are measurements consistent with previous?			Y	N	Y	Y	NA	Y		N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 14.85

Field measured confirmation of Well Depth (ft btoc): 70.00 w/ tubing

WD (Well Depth - from database) ft btoc (72.48)

SWH (Standing Water Height) = WD-Initial Depth 57.73

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

One Casing Volume = D*SWH 2.37

Three Casing Volumes = 7.1 gal

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

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 200-018

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1024 / Time of Reinstallation 1215
1027	14.85			

Comments: DTW was not able to be measured w/ transducer installed.

Odor: (none) sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-36-090-110 **QC Sample ID** MW-94-110 QC Sample Time 1510

Purge Start Time 1311 Purge Method peristaltic Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 9.4 Purge Rate (gpm)/(mLpm) 0.1

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
16.2	1312	-	7.26	8.35	2.86	5.35	26.81	0.46	5.2	-172	clear
16.23	1327	1.5	7.15	9.91	0.76	1.58	25.46	0.56	6.2	-168	clear
16.28	1343	3.0	7.21	9.8	0.61	1.38	25.55	0.55	6.0	-140	clear
16.31	1357	4.5	7.21	8.44	0.52	1.27	25.46	0.47	5.3	-122	clear
16.33	1412	6.0	7.21	8.35	0.61	1.23	25.50	0.46	5.2	-98	clear
16.36	1427	7.5	7.22	8.26	0.35	1.06	25.24	0.45	5.2	-68	clear
16.40	1442	9.0	7.22	8.26	0.49	1.08	25.27	0.45	5.2	-32	clear
16.42	1450	10	7.22	8.27	0.54	1.04	25.23	0.46	5.2	-20	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y		N ~~Y~~	
Previous Field measurement (9/7/2006)			7.34	8400	0.52	1.67	24.34	0.5		-55	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y		N	

Sample Time 1450 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Eh/ORP didn't stabilize

Initial Depth to Water (ft BTOC): 16.1

Field measured confirmation of Well Depth (ft btoc): 98 w/ tubing

WD (Well Depth - from database) ft btoc (92.48)

SWH (Standing Water Height) = WD-Initial Depth 76.38

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

One Casing Volume = D*SWH 3.13

Three Casing Volumes = 9.4 gal

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

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005-01A

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1258
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1312
1300	16.1	1508	16.41	

Comments: Cannot take a DTW w/ transducer installed.

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/11/06
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Well/Sample Number MW-36-100-110 **QC Sample ID** NA **QC Sample Time** NA
Purge Start Time 1128 Purge Method Ded. Pump Redi Flo
Flow Cell: Y N Min. Purge Volume (gal)/(L) 4/8gal 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
17.71	1130	0	7.33	12.1	2.35	6.83	24.48	0.69	7	-37	
17.85	1134	8	7.16	11.7	1.98	1.99	24.41	0.67	7	-80	
17.89	1138	16	7.08	14.2	1.90	1.34	25.13	0.86	9	-64	
17.89	1142	24	7.07	16.1	2.74	1.15	25.33	0.95	10	-14	
17.89	1146	32	7.07	16.4	0.95	1.03	25.40	0.96	10	3	
17.89	1150	40	7.07	16.5	1.65	0.98	25.26	0.97	10	11	
17.91	1154	48	7.07	16.6	1.05	0.92	25.37	0.98	10	15	
17.91	1158	56	7.07	16.5	0.90	0.91	25.40	0.97	10	17	
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	✓	✓	✓	
Previous Field measurement (9/8/2006)			7.34	16200	0.5	2.61	25.93	1		-10	
Are measurements consistent with previous?			N	Y	Y	N	NA	Y	✓	N	

Sample Time 1200 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Phase 2005-C3

Initial Depth to Water (ft BTOC): 16.29'
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (110.15)
SWH (Standing Water Height) = WD-Initial Depth 93.86
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 16 4/8
Three Casing Volumes =

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

Initial DTW / Before Removal		NA Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	1055
1053	16.29	1119	16.35	Time of Reinstallation	1114
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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, Warm

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
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Well/Sample Number MW-37D-110 QC Sample ID NA QC Sample Time N/A

Purge Start Time 1111 Purge Method grundfos redi-flow Ded. Pump N

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
31.60	1113	6	~~8.55~~ 7.76	22.4	1.91	5.52	31.98	1.35	14	37	clear
31.60	1117	18	7.77	22.7	0.76	2.03	31.60	1.38	15	11	clear
31.60	1121	30	7.79	24.4	0.73	1.91	31.79	1.51	16	2	clear
31.60	1125	42	7.82	26.0	1.11	1.92	32.10	1.62	17	0	clear
31.60	1129	54	7.85	27.7	1.01	1.94	32.06	1.72	18	-0	clear
31.60	1133	66	7.87	29.0	0.54	1.92	32.03	1.81	19	0	clear
31.60	1137	78	7.89	30.0	0.57	1.92	31.98	1.87	19	0	clear
31.59	1141	90	7.91	30.2	0.72	1.94	31.83	1.88	20	1	clear
31.59	1145	102	7.93	30.6	0.91	1.92	31.67	1.90	20	2	clear
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	
Previous Field measurement (5/3/2006)			7.11		0.25	3.23	31.44			96	
Are measurements consistent with previous?			Y		Y	N	NA			N	

Sample Time 1150 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 31.62

Field measured confirmation of Well Depth (ft btoc): Not a cluster

WD (Well Depth - from database) ft btoc (226.72)

SWH (Standing Water Height) = WD-Initial Depth 195.70

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

One Casing Volume = D*SWH 33.27

Three Casing Volumes = 99.8

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 N/A
Time	Initial DTW	Time	Final DTW	Time of Reinstallation N/A
1019	31.62	N/A	N/A	

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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/13/06
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Well/Sample Number MW-37S-110 **QC Sample ID** NA **QC Sample Time** N/A

Purge Start Time 1203 Purge Method redi flo Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 25 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
31.15	1206	9	8.14	8.68	1.73	5.46	33.16	0.51	6.1	38	clear
31.15	1208	15	8.08	18.1	0.89	3.04	31.67	1.09	12	15	clear
31.13	1209	18	8.06	18.5	0.58	2.84	31.61	1.10	12	7	clear
31.13	1210	21	8.04	18.6	0.68	2.64	31.65	1.10	12	-1	clear
31.13	1211	24	8.03	18.7	0.62	2.58	31.59	1.11	12	-7	clear
31.13	1212	27	8.01	18.6	0.64	2.48	31.70	1.11	12	-12	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y		Y	
Previous Field measurement (5/4/2006)			7.61	6080	1.11	3.53	29.99	0.3		116	
Are measurements consistent with previous?			N	N	N	N	NA	N		N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 38.2

Field measured confirmation of Well Depth (ft btoc): not a cluster

WD (Well Depth - from database) ft btoc (87.03)

SWH (Standing Water Height) = WD-Initial Depth 48.83

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

One Casing Volume = D*SWH 8.3

Three Casing Volumes = 24.90

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 N/A; Time of Reinstallation N/A
1157	38.2	N/A	N/A	

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

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Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/12/06
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Well/Sample Number MW-38D-110 QC Sample ID NA QC Sample Time NA

Purge Start Time 1151 Purge Method SCV Ded. Pump ____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 62 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
70.92	1154	9	7.62	23.0	2.48	5.95	30.20	1.39	14	81	
70.94	1157	18	7.67	26.1	1.67	2.15	30.38	1.61	16	41	
70.95	1200	27	7.69	26.7	0.85	1.68	30.31	1.62	16	8	
70.94	1203	36	7.69	26.3	0.71	1.45	30.41	1.64	17	-13	
70.94	1205	42	7.69	26.4	2.18	1.37	30.50	1.63	16	-20	
70.94	1207	48	7.69	26.3	1.24	1.31	30.87	1.62	16	-22	
70.94	1209	54	7.69	26.3	1.67	1.28	30.84	1.62	16	-26	
70.94	1211	60	7.69	26.3	1.34	1.25	30.83	1.62	16	-31	
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				
Previous Field measurement (3/10/2006)			7.48	23800	2.3	2.09	28.47	1.5		112	
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 70.14
Field measured confirmation of Well Depth (ft btoc): NA
WD (Well Depth - from database) ft btoc (190.85)
SWH (Standing Water Height) = WD-Initial Depth 120.71
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17
One Casing Volume = D*SWH 20.52
Three Casing Volumes = 61.56

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 ____
1140	70.14			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

Topock Sampling Log

Project Name: PGE Topock GMP
Job Number: 338234.GM.02.00
Field Team: 1
Field Conditions:

Sampling Event: 2006-GMP-110-Q3
Date: 10/12/06
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Well/Sample Number: MW-38S-110
QC Sample ID: NA
QC Sample Time:
Purge Start Time: 1334
Purge Method: ___ Ded. Pump: NA
Flow Cell: Y / N
Min. Purge Volume (gal)/(L): 15 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
70.51	1339	5	7.39	4.87	6.94	6.88	31.52	0.25	3.1	89	
70.50	1342	8	7.28	4.66	3.34	5.15	30.34	0.24	2.9	75	
70.48	1345	11	7.26	4.56	2.04	4.83	30.24	0.24	2.9	54	
70.47	1348	14	7.25	4.52	1.87	4.60	30.50	0.23	2.9	53	
70.47	1351	17	7.25	4.49	1.04	4.64	30.54	0.23	2.9	48	
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				
Previous Field measurement (5/4/2006)			7.35	5620	40.8	3.35	30.36	0.3		106	
Are measurements consistent with previous?							NA				

Sample Time: 1355 Sample Location: pump tubing ___ well port ___ spigot ___ bailer ___ other ___

Comments: ___

Initial Depth to Water (ft BTOC): 69.79
Measure Point: Well TOC Steel Casing
WATER LEVEL METER SERIAL NUMBER: PG&E-2005-03

Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (98.06)
SWH (Standing Water Height) = WD-Initial Depth 28.27
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17
One Casing Volume = D*SWH 4.8
Three Casing Volumes = 14.4

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal NA
Time	Initial DTW	Time	Final DTW	Time of Reinstallation NA
1326	69.79			
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 338231.GM.02.00
Field Team 3 **Field Conditions** Sunny + Hot

Sampling Event 2006-GMP-1 10-Q3
Date 10/05/2006
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Well/Sample Number MW-39-040-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 1303 **Purge Method** Peristaltic **Ded. Pump** No

Flow Cell (Y) N **Min. Purge Volume** (gal)/(L) 3.5 **Purge Rate** (gpm)/(mLpm) 0.5

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
13.40	1304		7.77	8.41	18.6	5.99	26.07	0.62	7	-197	
13.32	1306	1	7.18	16.0	12.7	2.31	25.83	0.96	10	-194	
13.35	1308	2	7.19	16.1	21.0	1.79	25.74	0.94	10	-194	
13.34	1310	3	7.20	15.5	19.5	1.63	25.70	0.89	9	-195	
13.36	1312	4	7.21	14.0	20.6	1.48	25.72	0.80	9	-196	
13.37	1314	5	7.21	13.4	11.4	1.41	25.76	0.76	8	-197	
	1316	6	7.21	12.5	12.7	1.35	25.72	0.71	8	-198	
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	
Previous Field measurement: (5/2/2006)			6.89	8150	1.03	0.13	27.41	0.45	—	-188	
Are measurements consistent with previous?			~	N	N	N	NA	~	—		

Sample Time 1318 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 13.98

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (42.1)

SWH (Standing Water Height) = WD-Initial Depth 28.12

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

One Casing Volume = D*SWH 1.16

Three Casing Volumes = — 3.47

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005-1B

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1256
1255	13.98	1419	14.15	Time of Reinstallation 1414
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 338234.GM.02.00
Field Team 3 **Field Conditions** Hot + Sunny

Sampling Event 2006-GMP-110-Q3
Date 10/05/06
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Well/Sample Number MW-39-050-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 1217 Purge Method Peristaltic Ded. Pump NO

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 5.0 Purge Rate (gpm)/(mLpm) 0.5

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
13.70	1218		7.27	10.7	10.8	6.14	26.25	0.64	7	-162	
14.63	1220	1	7.24	13.7	15.8	2.85	25.84	0.81	9	-156	
14.67	1222	2	7.20	14.1	2.61	1.96	25.77	0.81	9	-125	
14.63	1224	3	7.19	13.1	3.29	1.68	25.75	0.75	8	-105	
14.63	1226	4	7.19	12.1	3.51	1.53	25.74	0.68	7	-91	
14.60	1228	5	7.19	11.5	2.85	1.44	25.78	0.65	7	-83	
14.62	1230	6	7.19	11.2	3.46	1.38	25.79	0.63	7	-77	
Paramoter 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	
Previous Field measurement (5/2/2006)			6.56	9380	0.63	0.18	32	0.52	—	-45	
Are measurements consistent with previous?			N	N	N	N	NA	Y	—	N	

Sample Time 1232 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 13.80

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (54.6)

SWH (Standing Water Height) = WD-Initial Depth 40.8

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

One Casing Volume = D*SWH 1.67

Three Casing Volumes = 5.0

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PG+E 2005-18

Initial DTW / ~~Before~~ After Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1058
1059	13.80	1246	13.21	Time of Reinstallation 1241

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 338234.GM.02.00
Field Team 3 **Field Conditions** Hot + Sunny

Sampling Event 2006-GMP-110-Q3
Date 10/05/06
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Well/Sample Number MW-39-060-110 **QC Sample ID** MW-95-110 **QC Sample Time** 1047

Purge Start Time 10:15 **Purge Method** Peristaltic **Ded. Pump** No

Flow Cell (Y) / N **Min. Purge Volume** (gal)/(L) 6.5 **Purge Rate** (gpm)/(mLpm) ~.33

Water Level	Time	Vol. Purged gallons/ liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
17.44	10:15		7.28	9.48	~~3.78~~ 5.0	5.69	26.39	0.54	6.0	-64	
	10:18	1	7.16	11.4	3.48	2.24	25.97	0.64	7	-59	
16.81	10:20	2	7.15	14.1	2.96	1.86	25.95	0.83	9	-56	
16.92	10:24	3	7.14	13.9	7.56	1.62	25.87	0.80	9	-55	1029 Pumping interrupted
17.35	10:30	4	7.14	12.9	4.15	1.89	25.83	0.74	8	-51	
17.45	10:34	5	7.14	12.0	2.05	1.35	25.69	0.68	7	-53	
17.60	10:39	6	7.14	11.5	5.28	1.28	25.71	0.65	7	-53	
17.60	10:42	7	7.14	11.3	2.91	1.24	25.74	0.64	7	-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 Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	—	Y	
Previous Field measurement (5/2/2006)			6.43	12000	0.75	0.19	32.4	0.68	—	-39	
Are measurements consistent with previous?			N	Y	N	N	NA	Y	—	N	

Sample Time 1045 **Sample Location:** pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 14.00
Field measured confirmation of Well Depth (ft btoc): NM
WD (Well Depth - from database) ft btoc (66.3)
SWH (Standing Water Height) = WD-Initial Depth 52.3
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (1 in)
One Casing Volume = D*SWH 2.14
Three Casing Volumes = 6.4

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PG+G 2005-1B

Initial DTW / ~~Before~~ After Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1007
1007	14.00	1007	14.00	Time of Reinstallation 1052

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 338234.GM.02.00
Field Team 3 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/05/06
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Well/Sample Number MW-39-070-110 **QC Sample ID** NA QC Sample Time

Purge Start Time 1335 Purge Method Bristaltic Ded. Pump No

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 7.0 Purge Rate (gpm)/(mLpm) ~~0.44~~ ~0.5

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
14.60	1335		7.32	8.40	6.25	4.85	25.92	.0.48	5.5	-61	
14.65	1337	1	7.20	9.53	1.30	2.81	25.96	0.54	6.2	-75	
14.66	1340	2	7.05	13.7	4.38	1.92	25.81	0.80	8	-47	
14.68	1342	3	7.02	13.2	6.97	1.58	25.68	0.75	8	-30	
14.66	1344	4	7.01	12.8	10.4	1.46	25.75	0.73	8	-21	
14.67	1346	5	7.02	12.5	3.00	1.33	25.73	0.71	8	-11	
14.68	1348	6	7.01	12.4	~~3.40~~	1.28	25.72	0.71	8	-6	
14.69	1350	7	7.01	12.2	1.92	1.24	25.78	0.70	8	-1	
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	
Previous Field measurement (9/7/2006)			7.22	9760	0.59	1.67	27.36	0.6	—	21	
Are measurements consistent with previous?			~	N	~	Y	NA	Y	—	N	

Sample Time 1353 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Note: Compare ORP to historic - Matt/Shawn said is variable; purge DC (KLB)

Initial Depth to Water (ft BTOC): 14.50

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (71.69)

SWH (Standing Water Height) = WD-Initial Depth 57.19

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

One Casing Volume = D*SWH 2.34

Three Casing Volumes = 7.0

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE2005-1B

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1256
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1414
1255	14.50	1419	14.70	

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 330234.GM.02.00
Field Team 3 **Field Conditions** Sunny + Hot

Sampling Event 2006-GMP-110-Cl3
Date 10/05/06
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Well/Sample Number MW-39-080-110 **QC Sample ID** NA **QC Sample Time** N/A

Purge Start Time 1116 **Purge Method** Peristaltic **Ded. Pump** No

Flow Cell: Y / N **Min. Purge Volume** (gal) (L) 8.5 **Purge Rate** (gpm)/(mLpm) 2(65

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
14.50	1116		7.60	14.9	24.0	5.76	26.90	0.88	9	91	
	1119	1	6.91	19.9	23.0	2.53	25.79	1.23	13	86	
14.60	1123	2	6.87	21.5	1.04	1.83	25.71	1.30	13	84	
14.60	1125	3	6.83	21.8	2.87	1.56	25.76	1.31	13	79	
14.60	1127	4	6.82	21.3	5.46	1.46	25.77	1.27	13	77	
14.60	1129	5	6.82	20.6	3.99	1.38	25.76	1.23	13	76	
14.60	1131	6	6.82	20.1	0.70	1.34	25.78	1.20	12	76	
14.60	1133	7	6.82	19.6	2.51	1.31	25.77	1.17	12	75	
14.60	1136	8	6.82	19.8	11.3	1.27	25.90	1.18	12	76	
14.55	1138	9	6.87	19.5	6.23	1.30	25.92	1.17	12	76	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y		Y	
Previous Field measurement (9/7/2006)			7.08	12500	0.55	1.63	26.29	1		47	
Are measurements consistent with previous?			N	N	N	N	NA	..		N	

Sample Time 1142 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 13.94

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (82.55)

SWH (Standing Water Height) = WD-Initial Depth 68.61

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

One Casing Volume = D*SWH 2.81

Three Casing Volumes = 8.4

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

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2006-1B

Initial DTW / After Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal 1058
1059	13.94			Time of Reinstallation

Comments:

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2
Field Conditions Sunny, 75°F, Slight Breeze

Sampling Event 2006-GMP-110-Q3
Date 10/11/06
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Well/Sample Number MW-39-100-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time ~~0947~~ 0953
Purge Method
Ded. Pump Redi Flo
Flow Cell: Y / N
Min. Purge Volume (gal)/(L) 53 GALS
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
15.08	0954	0	7.16	18.1	1.75	7.22	25.81	1.08	11	75	
15.12	0959	10	6.99	22.1	0.95	1.79	26.05	1.35	14	82	
15.14	1004	20	6.93	22.6	0.88	1.60	26.25	1.38	14	86	
15.12	1009	30	6.90	23.0	0.94	1.44	26.22	1.40	14	86	
15.18	1014	40	6.89	23.3	0.77	1.35	26.22	1.42	14	87	
15.20	1019	50	6.88	23.4	0.86	1.29	26.27	1.43	15	87	
15.21	1024	60	6.87	23.1	0.81	1.24	26.32	1.41	14	87	
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				
Previous Field measurement (9/8/2006)			7.14	20700	0.41	2.75	27.34	1.2		46	
Are measurements consistent with previous?							NA				

Sample Time 1025 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: ____

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Initial Depth to Water (ft BTOC): 14.25'
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (117.71)
SWH (Standing Water Height) = WD-Initial Depth 103.46
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 17.16
Three Casing Volumes = 51.3

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny, 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-40D-110 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1005 Purge Method RediFlow2 Ded. Pump No
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 80 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
111.23	1009	12	7.39	13.9	1.47	3.74	31.24	0.8	9	100	
111.29	1013	24	7.45	20.3	3.70	2.11	31.38	1.2	13	82	
111.32	1017	36	7.46	20.5	1.64	2.01	31.63	1.2	13	60	
111.33	1021	48	7.51	20.7	1.19	2.07	31.83	1.2	13	70	
111.33	1025	60	7.54	20.8	1.18	2.11	31.96	1.3	13	76	
111.35	1029	72	7.57	20.8	1.79	2.16	32.05	1.3	13	83	
111.30	1033	84	7.57	20.9	0.75	2.14	32.05	1.3	13	84	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/3/2006)			6.77	—	202	2.53	32.36	1.7	—	66	
Are measurements consistent with previous?			N	—	N	Y	NA	Y	—	N	

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

Comments: ____

Initial Depth to Water (ft BTOC): ~~109.97~~ BS 110.50 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 2005-07

Field measured confirmation of Well Depth (ft btoc): —

WD (Well Depth - from database) ft btoc (266) BS

SWH (Standing Water Height) = WD-Initial Depth ~~110.50~~ BS 155.5

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

One Casing Volume = D*SWH 26.4

Three Casing Volumes = 79.3

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny 95°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-40S-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 1105 Purge Method Redi Flow 2 Ded. Pump No

Flow Cell: Y / N Min. Purge Volume (gal) (L) 12.2 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
110.00	1106	2	7.51	20.7	1.67	3.99	34.44	1.2	13	101	
110.04	1107	4	7.50	20.8	1.40	4.55	33.39	0.7	7	88	
110.05	1108	6	7.71	4.02	101	7.18	32.71	0.2	2.5	87	
110.06	1109	8	7.66	3.50	185	7.24	32.33	0.2	2.1	89	
110.06	1110	10	7.61	3.15	108	7.25	32.29	0.2	2.0	90	
110.06	1111	12	7.58	2.99	47.3	7.29	32.29	0.1	1.9	91	
110.06	1113	16	7.57	2.90	34.1	7.84	32.30	0.1	1.8	92	
110.06	1115	18	7.54	2.79	38.8	7.68	32.32	0.1	1.8	92	
110.06	1117	20	7.54	2.72	50.5	7.49	32.33	0.1	1.7	92	
~1	1119	26	7.53	2.70	10.2	7.35	32.32	0.1	1.7	92	
V	1121	30	pH units	2.69	NTU	mg/L	NA	NA	NA	mV	
Parameter Stabilization Criteria		34	7.53	2.69	when < 10 NTUs	7.33	32.32	0.1	1.7	92	
Did Parameters Stablize prior to sampling?	1123		7.52	2.68	5.40	7.32	32.32	0.1	1.7	92	
Previous Field measurement (5/3/2006)			Y 6.98	Y 3080	Y 2.16	Y 8.47	Y 31.39	Y 0.2	—	92	
Are measurements consistent with previous?			N	Y	Y	N	NA	Y	—	Y	

Sample Time 1125 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 109.97
Field measured confirmation of Well Depth (ft btoc): 133.85
WD (Well Depth - from database) ft btoc (134) 137.85
SWH (Standing Water Height) = WD-Initial Depth 23.88
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 4.1
Three Casing Volumes = 12.2

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

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

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/04/06
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Well/Sample Number MW-41D-110 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1:17 Purge Method Redi-Flow Ded. Pump —

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 3 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
25.26	1326	27	7.80	23.2	4.64	0.93	32.05	1.43	15	-86	
25.24	1335	54	7.86	23.9	2.00	0.79	32.04	1.46	16	-59	
25.25	1344	81	7.87	24.0	2.28	0.75	32.01	1.47	16	-106	
25.18	1353	108	7.89	23.8	2.35	0.69	32.00	1.47	16	-108	
25.16	1402	135	7.89	23.8	1.39	0.67	31.97	1.45	15	-115	
25.14	1411	162	7.90	24.0	1.26	0.64	31.93	1.47	16	-117	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/5/2006)			7.88	20700	0.58	0.33	30.67	1.25		-136	
Are measurements consistent with previous?			Y	N	Y	Y	NA	Y		N	

Sample Time 1412 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 24.24 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (313)

SWH (Standing Water Height) = WD-Initial Depth 288.76

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

One Casing Volume = D*SWH 49.1

Three Casing Volumes = 147.3

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 338234.GM.02.00
Field Team 1 Field Conditions Sunny 85°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-41M-110 **QC Sample ID** MW-96-110 QC Sample Time 0800
Purge Start Time 0728 Purge Method RediFlow2 Ded. Pump No
Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 86 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
24.62	0733	15	7.08	19.4	3.29	2.44	28.52	1.2	12	143	
24.62	0738	30	7.54	19.6	1.99	1.90	29.34	1.2	12	111	
24.63	0743	45	7.60	19.5	1.57	1.89	29.33	1.2	12	103	
24.63	0748	60	7.64	19.5	1.17	1.87	29.42	1.2	12	96	
24.63	0753	75	7.67	19.5	1.23	1.89	29.51	1.2	12	88	
24.63	0758	90	7.67	19.5	1.04	1.91	29.53	1.2	12	87	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/5/2006)			7.88	15000	0.91	3.47	30.59	0.88	—	88	
Are measurements consistent with previous?			Y	N	Y	N	NA	Y	—	Y	

Sample Time 0800 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 24.09
Field measured confirmation of Well Depth (ft btoc): Not a cluster
WD (Well Depth - from database) ft btoc (192.4)
SWH (Standing Water Height) = WD-Initial Depth 168.32
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 28.6
Three Casing Volumes = 85.8

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

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 338234.GM.02.00
Field Team 1 **Field Conditions** Sunny 90°F

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
Page 1 of 1

Well/Sample Number MW-413-110 **QC Sample ID** NA **QC Sample Time** —

Purge Start Time 0830 **Purge Method** Rod. Flow 2 **Ded. Pump** No

Flow Cell (Y) / N **Min. Purge Volume** (gal) (L) 19 **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
24.55	0832	4	7.89	7.48	1.72	3.02	28.78	0.4	4.5	67	
24.54	0834	8	7.87	6.80	1.20	3.20	28.71	0.4	4.2	67	
24.54	0836	12	7.85	6.20	1.33	3.17	28.68	0.3	3.9	67	
24.54	0838	16	7.84	6.08	1.32	3.12	28.67	0.3	3.9	66	
24.54	0840	20	7.83	6.00	1.12	3.11	28.64	0.3	3.8	65	
24.54	0842	24	7.83	6.00	1.26	3.11	28.65	0.3	3.8	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 Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/5/2006)			8.09	4760	0.66	2.31	31.33	0.25		80	
Are measurements consistent with previous?			~	~	~	Y	NA	Y	—	~	

Sample Time 0845 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 24.28

Field measured confirmation of Well Depth (ft btoc): No 1 a cluster

WD (Well Depth - from database) ft btoc (61.58)

SWH (Standing Water Height) = WD-Initial Depth 37.3

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

One Casing Volume = D*SWH ~~2.485~~ 6.3

Three Casing Volumes = 19.0 ←

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: 2005-02

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

Comments:

Color: clear, grey, yellow, brown, black, cloudy, green KLB comment not consistent w/ plot (PST has 42 gallon purge) but math OK – PST wrong?

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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
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Well/Sample Number MW-42-030-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1211 Purge Method 3 CV Ded. Pump NA

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 12 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
9.95	1213	2	7.52	16.5	148	2.41	30.99	1.00	11	-169	
9.95	1215	4	7.41	19.1	113	1.78	29.34	1.14	12	-166	
9.95	1217	6	7.35	20.1	83.8	1.53	28.80	1.21	13	-162	
9.95	1219	8	7.31	20.5	61.8	1.37	28.27	1.23	13	-160	
9.96	1221	10	7.30	20.5	49.6	1.26	28.17	1.24	13	-160	
9.96	1224	13	7.29	20.2	34.4	1.14	27.94	1.22	13	-160	
9.97	1227	16	7.29	20.0	30.9	0.99	27.81	1.19	13	-160	
9.97	1229	18	7.29	19.8	25.9	0.94	27.81	1.19	13	-160	
9.97	1231	20	7.29	19.7	22.2	0.89	27.77	1.18	13	-160	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	-	Y	
Previous Field measurement (5/2/2006)			6.9	18500	32	2.29	36.3	1.1		-160	
Are measurements consistent with previous?			Y	Y	Y	N	NA	Y	-	Y	

Sample Time 1235 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Turbid.s started very high. Decreased steadily. All else stable, Turbid.s matches historic

Initial Depth to Water (ft BTOC): 9.53

Field measured confirmation of Well Depth (ft btoc): 31.5.5"

WD (Well Depth - from database) ft btoc (32)

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

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

One Casing Volume = D*SWH 3.82

Three Casing Volumes = 11.46

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1201 / Time of Reinstallation 1246
1154	9.53	1319	9.68	

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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/3
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Well/Sample Number MW-42-055-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1250 Purge Method 3 CV Ded. Pump NA

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 24 Purge Rate (gpm)/(ml.pm) 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
10.25	1253	6	7.49	18.3	4.99	2.03	26.26	1.10	12.	-142	
1027	1256	12	7.36	19.6	1.89	0.95	26.70	1.17	13	-130	
1027	1259	18	7.32	19.4	1.43	0.82	26.44	1.16	13	-126	
1027	1301	22	7.31	19.2	0.86	0.92	26.36	1.15	13	-125	
1027	1303	26	7.30	19.1	0.80	0.76	26.35	1.14	12	-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 Stabilize prior to sampling?	Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)	6.76	21400	2.4	2.17	37	1.3		-138	
Are measurements consistent with previous?	Y	Y	N	N	NA	Y	—	Y	

Sample Time 1305 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.68

Field measured confirmation of Well Depth (ft btoc): 55' 9"

WD (Well Depth - from database) ft btoc (56)

SWH (Standing Water Height) = WD-Initial Depth 46.32

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

One Casing Volume = D*SWH 787

Three Casing Volumes = 23.62

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 1243
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1318
1240	9.68	1405	9.89	

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 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/3/06
Page 1 of 1

Well/Sample Number MW-42-065-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1333 Purge Method SCV Ded. Pump NA

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 36 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
9.85	1336	6	7.25	19.5	1.21	1.13	27.18	1.18	13	-79	
9.90	1339	12	7.15	21.0	2.00	0.86	26.63	1.27	14	-65	
9.92	1342	18	7.10	20.9	1.64	0.81	26.46	1.26	14	-58	
9.94	1345	24	7.07	20.8	1.94	0.78	26.49	1.26	14	-54	
9.95	1350	34	7.05	20.4	1.28	0.73	26.39	1.23	13	-51	
9.95	1353	40	7.05	20.4	0.86	0.70	26.39	1.23	13	-50	
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	
Previous Field measurement (5/2/2006)			6.47	25400	2.1	2.15	36.6	1.6		-76	
Are measurements consistent with previous?			N	Y	Y	N	NA	Y	—	Y	

Sample Time 1400 Sample Location: pump tubing Y well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.32

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (80)

SWH (Standing Water Height) = WD-Initial Depth 70.68

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

One Casing Volume = D*SWH 12.01

Three Casing Volumes = 36.03

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 1321
1320	9.32	1416	9.52	Time of Reinstallation 1410
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 338234.GM.02.00
Field Team 2 **Field Conditions** sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-43-025-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1112 **Purge Method** 3 CV **Ded. Pump** NF

Flow Cell: (Y) / N **Min. Purge Volume (gal)/(L)** 10 **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
8.11	1115	3.0	8.15	~~13~~ 1.31 [m2]	3.76	1.31	23.88	0.06	0.9	-163	
8.12	1117	5.0	8.09	1.33	0.73	0.85	23.11	0.06	0.9	-166	
8.14	1119	7.0	8.06	1.33	~~0.73~~ 0.56 [m2]	0.73	22.90	0.06	0.9	-168	
8.14	1121	9.0	8.05	1.32	0.57	0.65	22.89	0.06	0.9	-169	
8.15	1124	12.0	8.04	1.31	0.57	0.61	22.84	0.06	0.9	-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	-	Y	
Previous Field measurement (5/4/2006)	6.74	1280	3.74	0.45	30	0.06		-176	
Are measurements consistent with previous?	V	Y	N	N	NA	Y	-	Y	

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

Comments: No dedicated pump. Well in good condition, clearly labeled.

Initial Depth to Water (ft BTOC): ~~7.80~~ [m2] 7.70

Field measured confirmation of Well Depth (ft btoc): NM

WD (Well Depth - from database) ft btoc (27)

SWH (Standing Water Height) = WD-Initial Depth 19.3

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

One Casing Volume = D*SWH 3.28

Three Casing Volumes = 9.84

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 1025
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1141
1023	7.70	1153	7.92	

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 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-43-075-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0900 Purge Method 3CV Ded. Pump BF-2

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 35 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
8.37	0904	8	7.30	17.8	0.06	3.84	22.96	1.08	12	-136	
8.38	0907	14	7.42	19.4	0.51	1.76	22.66	1.15	13	-138	
8.39	0910	20	7.51	19.1	0.45	1.20	22.56	1.12	13	-149	
8.38	0913	26	7.57	18.6	0.15	0.60	22.57	1.11	12	-154	
8.39	0917	34	7.61	18.4	0.71	0.64	22.42	1.10	12	-152	
8.40	0920	40	7.64	18.3	0.30	1.40	22.37	1.08	12	-139	
8.41	0923	46	7.66	18.0	0.40	1.38	22.33	1.07	12	-137	
8.40	0926	52	7.68	17.9	0.51	1.18	22.33	1.06	12	-128	
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	
Previous Field measurement (5/4/2006)			6.83	15400	1.87	0.34	26.6	0.9		-167	
Are measurements consistent with previous?			Y	Y	N	N	NA			Y	

Sample Time 930 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: well in good condition. labeled clearly.

Initial Depth to Water (ft BTOC): 7.84 NM2 7.81

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc (77)

SWH (Standing Water Height) = WD-Initial Depth 68.19

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

One Casing Volume = D*SWH 11.59

Three Casing Volumes = 34.78

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 NA
846	8.81			Time of Reinstallation NA

Comments:

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

Odor: (none), sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/2/06
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Well/Sample Number MW-43-090-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0947 Purge Method 3CV Ded. Pump BF-2

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 48 Purge Rate (gpm)/(mLpm) 2.2

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
9.60	9:51	8	7.41	22.6	0.60	1.79	21.93	1.38	15	-116	
9.62	955	16	7.23	24.1	0.97	1.96	22.41	1.48	16	-109	
9.64	959	24	7.21	24.0	0.62	0.60	22.41	1.47	16	-109	
9.64	1005	32	7.21	23.9	0.54	0.37	22.40	1.46	16	-109	
9.65	1009	40	7.22	23.6	0.20	0.34	22.69	1.44	15	-109	
9.65	1013	48	7.22	23.6	~~0.39~~ mm 0.67	0.39	22.65	1.44	15	-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	NA	NA	Y	
Previous Field measurement (5/4/2006)			6.27	22400	1.38	0.38	29.4	1.36		-124	
Are measurements consistent with previous?			N	Y	N	Y	NA	Y	NA	Y	

Sample Time 1015 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 9.22

Field measured confirmation of Well Depth (ft btoc): N/A

WD (Well Depth - from database) ft btoc (102)

SWH (Standing Water Height) = WD-Initial Depth 93.78

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) .17

One Casing Volume = D*SWH 15.9

Three Casing Volumes = 47.83

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal NA
~~8:52~~ 9:45	8.22			Time of Reinstallation NA

Comments:

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

Odor: (none), sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338231.GM.02.00
Field Team 2 Field Conditions Overcast 85°F

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number MW-44-070-110 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1458 Purge Method 3CV Ded. Pump NA
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 27 Purge Rate (gpm)/(mLpm) 1.5

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
21.33	1502	4.5	7.40	8.23	3.03	4.00	25.92	0.5	5.2	-187	
21.33	1505	9	7.23	8.34	1.99	3.08	24.95	0.5	5.3	-191	
21.33	1508	13.5	7.16	8.53	1.66	2.69	24.47	0.5	5.4	-187	
21.33	1511	18	7.12	8.67	1.70	2.55	24.18	0.5	5.5	-184	
21.34	1514	22.5	7.11	8.75	1.68	2.47	24.22	0.5	5.5	-182	
21.34	1517	27	7.09	8.84	1.27	2.37	24.30	0.5	5.6	-181	
	1520	31.5	7.09	8.91	1.10	2.33	24.27	0.5	5.6	-181	
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	
Previous Field measurement (6/15/2006)			7.27	14900	16.4	5.38	25.66	0.9	—	-118	
Are measurements consistent with previous?			Y	N	N	N	NA	N	—	N	

Sample Time 1522 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 17.95
Field measured confirmation of Well Depth (ft btoc): 78.4
WD (Well Depth - from database) ft btoc (70)
SWH (Standing Water Height) = WD-Initial Depth 52.05
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in) 0.17
One Casing Volume = D*SWH 8.84
Three Casing Volumes = 26.55

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	1441
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1543
1440	17.95	1549	17.95		
Comments: Transducer sits on nuts below metal strip					

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 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-44-115-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 1107 Purge Method Grundfos Ded. Pump Y

Flow Cell (Y) / N Min. Purge Volume (ga)/(L) 49 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
20.95	1110	9	8.24	18.4	11.3	7.23	24.61	1.10	11.4	24	clear, slightly cloudy
20.95	1112	15	8.15	18.8	22.9	4.05	24.72	1.12	11.7	16	"
20.99	1114	21	8.14	18.7	86.4	3.41	24.75	1.12	11.6	9	slightly cloudy ; brown
21.05	1116	27	8.15	18.7	19.2	3.23	24.89	1.12	11.6	5	a little clearer, still cloudy
21.04	1118	33	8.15	18.6	3.85	3.10	24.66	1.11	11.5	2	clear
21.06	1120	39	8.15	18.6	2.30	3.01	24.61	1.11	11.5	2	"
21.07	1122	45	8.15	18.5	2.23	2.95	24.68	1.10	11.4	1	"
21.09	1124	51	8.14	18.4	2.52	2.87	24.61	1.09	11.4	3	"
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (9/21/2006)			7.64	14600	33.2	2.65	24.77	0.9	—	57	
Are measurements consistent with previous?			N	N	N	Y	NA	Y	—	N	

Sample Time 1125 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 17.72

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (113.5)

SWH (Standing Water Height) = WD-Initial Depth 95.78

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

One Casing Volume = D*SWH 16.28

Three Casing Volumes = 48.85

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: PGE 2005-C3 ~~C1A~~

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 0805
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 0816
0804	17.72	0915	17.72	

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 338234.GM.02.00
Field Team 2 Field Conditions partly cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
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Well/Sample Number MW-44-125-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 0930 Purge Method 3CV Ded. Pump N

Flow Cell (Y) N Min. Purge Volume (gal)/(L) .57 Purge Rate (gpm)/(mLpm) 0.75

(feet) 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
29.50	0935	3.75	7.31	7.32	11.9	5.35	26.32	0.40	4.62	-155	mostly clear
32.48	0945	11.25	7.74	7.24	6.70	3.42	25.07	0.31	4.56	-204	slightly orange-yellow color
32.53	0955	18.75	7.83	8.97	4.88	2.97	25.60	0.51	5.81	-215	clear
32.40	1005	26.25	8.04	15.5	3.24	2.77	26.07	0.71	9.6	-145	clear
33.10	1015	33.75	8.08	16.0	3.14	2.75	26.10	0.95	10.0	-100	clear
33.95	1021	38.25	8.20	16.6	2.72	2.71	26.28	0.98	10.3	-97	clear
33.90	1027	42.75	8.25	16.7	2.36	2.70	26.42	0.99	10.4	-95	clear
33.79	1033	47.25	8.33	16.7	2.59 2.02	2.62	26.39	0.99	10.4	-100	clear
33.49	1043	54.75	8.37	16.9	3.08	2.61	26.58	0.97	10.2	-101	clear
33.49	1039 1053	62.25	8.39	18.0	4.44	2.57	26.96	1.07	11.1	-97	clear
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	
Previous Field measurement (9/20/2006)			8.92	16700	11.2	0.4	25.31	0.99	-	-130	
Are measurements consistent with previous?			N	Y	N	N	NA	Y	-	Y	

Sample Time 1055 Sample Location: pump tubing X well port spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 17.38

Field measured confirmation of Well Depth (ft btoc): 128'8"

WD (Well Depth - from database) ft btoc (128.8)

SWH (Standing Water Height) = WD-Initial Depth 111.42

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

One Casing Volume = D*SWH 18.94

Three Casing Volumes = 56.82

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 0820
0820	17.38	1147	18.90	Time of Reinstallation 1140

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 338234.GM.02.00
Field Team 2 **Field Conditions** Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
Page 1 of 1

Well/Sample Number MW-46-175-110 **QC Sample ID** MW-97-110 **QC Sample Time** 1430

Purge Start Time 1320 **Purge Method** groundfos **Ded. Pump** Y

Flow Cell (Y) / N **Min. Purge Volume** (gal)/(L) 78.3 **Purge Rate** (gpm)/(mLpm) 1.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
31.49	1325	7.5	8.55	23.4	3.08	7.82	22.84	1.42	14.5	-4	clear
31.49	1331	16.5	8.70	22.9	1.73	3.31	23.65	1.39	14.2	9	clear
31.49	1337	25.5	8.72	22.9	3.13	2.98	24.53	1.37	14.0	12	clear
31.49	1343	34.5	8.76	22.4	2.07	2.80	24.88	1.36	13.9	9	clear
31.49	1349	43.5	8.76	22.0	1.39	2.82	25.02	1.33	13.6	7	clear
31.52	1355	52.5	8.76	21.8	1.36	2.87	25.31	1.32	13.5	5	clear
31.52	1401	61.5	8.74	21.7	1.49	2.91	25.28	1.31	13.5	3	clear
31.52	1407	70.5	8.75	21.6	1.95	2.88	25.22	1.31	13.4	2	clear
31.52	1413	79.5	8.75	22.2		2.83	25.29	1.35	13.7	0	clear
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	
Previous Field measurement (9/21/2006)			8.26	18300	1.36	2.32	25.54	1.1	–	43	
Are measurements consistent with previous?			Y	N	Y	Y	NA	Y	–	N	

Sample Time 1415 **Sample Location:** pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 28.33
Field measured confirmation of Well Depth (ft btoc): checked TD of 205 well
WD (Well Depth - from database) ft btoc (181.8)
SWH (Standing Water Height) = WD-Initial Depth 153.47
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 26.09
Three Casing Volumes = 78.27

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** PGE-2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1241 / Time of Reinstallation 1309
1240	28.33	1421	28.42	

Comments: final DTW was collected after purging 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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/5/06
Page 1 of 1

Well/Sample Number MW-46-205-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1420 Purge Method grundfos Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 100 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
33.11	1445	10	8.52	27.9	3.17	6.98	27.54	1.76	17.7	43	clear
33.39	1451	22	8.57	28.4	1.84	3.14	26.00	1.77	17.6	27	clear
33.41	1457	34	8.58	28.3	1.58	2.74	26.94	1.76	17.5	9	clear
33.41	1503	46	8.64	28.2	1.51	2.62	27.18	1.76	17.5	-78	clear
33.42	1509	58	8.64	28.0	1.33	2.52	27.24	1.74	17.4	-86	clear
33.44	1515	70	8.64	27.8	1.61	2.47	27.06	1.73	17.2	-89	clear
33.46	1521	82	8.64	27.7	1.22	2.46	27.07	1.72	17.2	-91	clear
33.45	1527	94	8.64	27.6	1.24	2.43	27.04	1.71	17.1	-94	clear
33.46	1533	106	8.65	27.5	1.35	2.41	26.98	1.70	17.0	-96	clear
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	
Previous Field measurement (9/7/2006)			8.21	26000	0.66	1.62	28	1.6	—	-37	
Are measurements consistent with previous?			~	~	~	~	NA	Y	—	~	

Sample Time 1535 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 28.62

Field measured confirmation of Well Depth (ft btoc): >200'

WD (Well Depth - from database) ft btoc (224.67)

SWH (Standing Water Height) = WD-Initial Depth 196.05

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

One Casing Volume = D*SWH 33.33

Three Casing Volumes = 99.98

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-C3

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1426
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1543
1425	28.62	1548	~~28~~ 28.65	

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 MW-47-55-110
Field Team _____ **Field Conditions** _____

Sampling Event _____
Date 10/10/06
Page 2 of 2

Well/Sample Number _____ **QC Sample ID** NA **QC Sample Time** NA

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
29.43	1310	18	7.49	5.23	26.8	2.70	27.85	0.28	3.3	9	
29.44	1311	20	7.49	5.24	17	2.69	27.84	0.28	3.3	8	
29.44	1312	22	7.49	5.25	15.3	2.71	27.83	0.28	3.3	8	
29.45	1313	24	7.48	5.26	11	2.77	27.85	0.28	3.3	7	
29.45	1314	26	7.48	5.28	10.6	2.80	27.84	0.28	3.3	7	
29.45	1315	28	7.48	5.30	12.0	2.83	27.85	0.28	3.3	6	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

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

Comments: _____

Initial Depth to Water (ft BTOC): _____

Field measured confirmation of Well Depth (ft btoc): _____

WD (Well Depth - from database) ft btoc _____

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

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

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, Sill, Sand

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2
Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/10/06
Page 1 of 2

Well/Sample Number MW-47-055-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1300
Purge Method Mobile Redi Flo
Ded. Pump
Flow Cell (Y) N
Min. Purge Volume (gal)/(L) 13.59 gL
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)
29.41	1301	0	7.60	4.67	>100	5.38	27.97	0.24	3.0	37	
29.43	1302	2	7.58	4.75	>100	4.30	27.95	0.25	3.1	-37	
29.43	1303	4	7.56	4.89	>100	3.58	27.92	0.26	3.2	32	
29.43	1304	6	7.54	4.98	890	3.32	27.94	0.26	3.2	30	
29.43	1305	8	7.53	5.08	731	3.04	27.90	0.27	3.2	26	
29.43	1306	10	7.52	5.15	305	2.89	27.88	0.27	3.3	21	
29.43	1307	12	7.51	5.19	128	2.80	27.86	0.27	3.3	16	
29.43	1308	14	7.51	5.21	68.8	2.75	27.86	0.27	3.3	13	
29.43	1309	16	7.50	5.23	42.2	2.72	27.86	0.27	3.3	11	
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				
Previous Field measurement	(6/16/2006)		7.31	4430	340	2.89	29.5	0.2		22	
Are measurements consistent with previous?							NA				

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

Comments:

Initial Depth to Water (ft BTOC): ~~29.25~~ 28.90
Measure Point: (Well TOC) Steel Casing
WATER LEVEL METER SERIAL NUMBER: PQEC 2005-C3

Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (55)
SWH (Standing Water Height) = WD-Initial Depth 26.1
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 4.4
Three Casing Volumes = 13.5

Initial DTW / Before Removal		If Transducer			
Time	Initial DTW	Approx. 5 min After Reinstallation		Time of Removal	~~1140~~ 1252
~~1250~~	~~28.90~~	Time	Final DTW	Time of Reinstallation	1326
~~1145~~	~~29.25~~	1331	28.91		

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 338234.GM.02.00
Field Team 2 **Field Conditions** Partly Cloudy, Breezy, 90°F

Sampling Event 2006-GMP-110-Q3
Date 10/10/06
Page 1 of ____

Well/Sample Number MW-47-115-110 **QC Sample ID** NA **QC Sample Time** NA
Purge Start Time 1200 **Purge Method** Mobile Rod Pump **Ded. Pump** ____
Flow Cell Y / N **Min. Purge Volume (gal)/(L)** 44 **Purge Rate (gpm)/(mLpm)** 1.5 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
30.67	1202	0	7.54	15.3	2.56	5.56	28.01	.90	10	60	
30.65	1207	7.5	7.54	15.7	2.93	1.78	28.16	.92	10	27	
30.57	1212	15.	7.59	17.3	>100	1.38	28.39	1.03	11	-33	
30.54	1217	22.5	7.60	17.4	>1000	1.33	28.38	1.03	11	-79	
30.56	1222	30	7.60	17.2	97.5	1.22	28.39	1.02	11	-79	
30.57	1227	37.5	7.59	17.0	36.6	1.17	28.37	1.00	11	-81	
30.58	1232	45	7.59	16.8	48.2	1.15	28.34	0.99	10	-82	
30.56	1237	52.5	7.59	16.8	48.9	1.13	28.47	0.99	10	-84	
30.57	1242	60	7.59	16.8	54.8	1.13	28.45	0.99	10	-80	
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	✓	✓	✓	
Previous Field measurement (5/16/2006)			7.22	18400	41.8	1.93	29.6	1.1		-67	
Are measurements consistent with previous?			N	N	Y	N	NA	Y	✓	N	

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

Initial Depth to Water (ft BTOC): 29.25
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (115)
SWH (Standing Water Height) = WD-Initial Depth 85.75
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 14.6
Three Casing Volumes = 44

Measure Point: Well TOC Steel Casing **WATER LEVEL METER SERIAL NUMBER:** Page 2005-C3

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 1140
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1251
1145	29.25	1250	29.30	
Comments:				

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 Field Conditions sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06 & 10/6/06
Page 1 of 1

Well/Sample Number MW-48-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time 1010 Purge Method purged dry Ded. Pump N

Flow Cell: (Y) / N Min. Purge Volume (gal) / (L) 54.6 Purge Rate (gpm)/(mLpm) NA - purging dry (1.5 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
Couldn't take WL	1013	NM	7.49	20.9	3.71	2.67	32.55	1.27	14	-60	
	1014		stopped to lower pump								
	1019		start pumping again								
	1020		7.23	22.2	2.24	36.46	32.24	1.33	14	-4	
	1023		7.08	21.9	3.23	1.46	33.42	1.33	14	17	
	1025		7.03	22.0	4.13	1.52	33.29	1.33	14	-10	~~dry~~
	1027		7.01	21.6	4.66	1.49	33.61	1.30	14	-65	dry ~~(KA)~~
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 purge dry
Previous Field measurement (6/6/2006)			6.37	15000	7.08	0.63	41.55	0.87		-128	
Are measurements consistent with previous?							NA				

Sample Time 1245 10/6/06 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other bailer

Comments: Sample bailed 2 days later after 77% recovery well cap missing

Initial Depth to Water (ft BTOC): 30.98 (10/4/06) / 59.39 (10/6/06 @ 1230)

Field measured confirmation of Well Depth (ft btoc): 136.13

WD (Well Depth - from database) ft btoc (138)

SWH (Standing Water Height) = WD-Initial Depth 107.02

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

One Casing Volume = D*SWH 18.2

Three Casing Volumes = 54.6

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

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 2 **Field Conditions** Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/12/06
Page 1 of 1

Well/Sample Number MW-49-135-110 **QC Sample ID** NA **QC Sample Time** N/A

Purge Start Time 0959 **Purge Method** Watera **Ded. Pump** Y

Flow Cell (Y) / N **Min. Purge Volume** (gal)/(L) 30 **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
—	1000	1	7.31	17.5	6.95	4.32	25.66	1.0	11	-55	clear
—	1007	5	7.58	17.5	7.02	2.21	24.41	1.0	11	-10	clear
—	1011	9	7.61	17.8	12.8	2.10	24.67	1.1	11	-134	clear
—	1015	13	7.64	18.5	411	2.04	24.78	1.1	11	-173	~~clear~~ cloudy
—	1019	17	7.68	19.2	363	1.99	24.86	1.2	12	-191	cloudy
—	1023	21	7.70	20.0	197	1.95	24.89	1.2	12	-197	cloudy
—	1027	25	7.72	20.7	172	1.93	24.91	1.2	13	-199	cloudy
—	1031	29	7.73	21.0	108	1.91	24.93	1.3	13	-200	cloudy
—	1035	33	7.73	21.2	96.2	1.90	24.94	1.3	13	-200	slightly cloudy → clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y		Y	NA	Y		Y	
Previous Field measurement (5/18/2006)			7.21	17100	168	2.29	26.68	1		-178	
Are measurements consistent with previous?			Y	N		N	NA	Y		Y	

Sample Time 1045 **Sample Location:** pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Did not take WL during purging b/c we are using the Watera pump

Initial Depth to Water (ft BTOC): 29.22

Field measured confirmation of Well Depth (ft btoc): only 1½" well in cluster

WD (Well Depth - from database) ft btoc (136.6)

SWH (Standing Water Height) = WD-Initial Depth 107.38

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (1.5 in)

One Casing Volume = D*SWH 17.79

Three Casing Volumes = 29.36

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** E-100952

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal N/A; Time of Reinstallation N/A
0857	29.22	N/A	N/A	

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: 338234.GM.02.00
Field Team: 2
Field Conditions: Sunny, hot

Sampling Event: 2008-GMP-110-Q3
Date: 10/12/06
Page: 1 of 1

Well/Sample Number: MW-49-275-110
QC Sample ID: NA
QC Sample Time: N/A
Purge Start Time: ~~1057~~ 1101
Purge Method: grundfos
Ded. Pump: N
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L): 125
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
34.89	1105	8	~~7.13~~ 7.00	~~12.7~~ 24.4	24.6	2.54	25.99	1.6	17	-213	slightly cloudy
35.09	1113	24	7.82	30.0	5.55	1.87	26.72	1.9	19	-290	clear
35.17	1121	40	7.85	29.9	4.02	1.85	27.47	1.9	19	-293	clear
35.17	1129	56	8.00	31.3	294	1.79	28.07	2.0	19	-262	cloudy
35.28	1137	72	8.09	31.1	35.8	1.79	28.04	2.0	19	-253	cloudy
35.31	1145	88	8.13	31.1	43.3	1.78	28.07	2.0	19	-249	slightly cloudy
35.59	1153	104	8.16	31.1	23.6	1.80	28.09	1.9	19	-245	slightly cloudy
35.66	1201	120	8.19	31.1	34.8	1.81	28.23	1.9	19	-246	" "
35.63	1209	136	8.21	31.1	696	1.82	28.34	2.0	19	-252	* cloudy"
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	Y		Y	
Previous Field measurement (5/18/2006)			7.68	26700	260	2.17	29.92	1.6		-214	
Are measurements consistent with previous?			N	N	N	N	NA	Y		~~N~~ Y	

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

Comments: turbidity would not stabalize, we ran out of room in purge tank. so we had to stop purging.

Initial Depth to Water (ft BTOC): 30.24
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (274.7)
SWH (Standing Water Height) = WD-Initial Depth 244.46
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 41.56
Three Casing Volumes = 124.7

Measure Point: (Well TOC) Steel Casing

WATER LEVEL METER SERIAL NUMBER: C100952

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer (yellow)	
Time	Initial DTW	Time	Final DTW	Time of Removal	0911
0910	30.24	1245	30.62	Time of Reinstallation	1240

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 338234.GM.02.00
Field Team 2 **Field Conditions** Sunny, hot

Sampling Event 2006-GMP-110-Q3
Date 10/12/06
Page 1 of 1

Well/Sample Number MW-49-365-110 **QC Sample ID** NA **QC Sample Time** N/A

Purge Start Time 1316 **Purge Method** grundfos **Ded. Pump** N

Flow Cell (Y) / N **Min. Purge Volume** (gal)/(L) 171 **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
38.23	1317	2	8.03	31.2	—	3.99	33.61	2.0	19	-162	brown, cloudy
38.50	1328	24	7.77	46.7	18.8	1.87	28.48	3.1	29	-327	slightly cloudy
38.63	1339	46 ~~+6~~	7.78	46.9	9.78	1.63	28.94	3.1	29	-331	clear
38.72	1350	68	7.84	47.2	3.28	1.52	28.89	3.1	29	-314	clear
41.81	1401	90	7.93	47.6	3.50	1.48	29.28	3.1	29	-289	clear
41.92	1412	112 ~~+32~~	8.01	47.7	2.25	1.48	29.58	3.1	29	-271	clear
41.93	1423	134	8.04	47.8	7.10	1.49	29.75	3.1	29	-262	clear
41.98	1430	156 ~~+68~~	8.07	47.7	3.62	1.43	28.83	3.1	29	-275	clear
41.98	14 ~~33~~ 45	+78177	8.07	47.7	2.67	1.43	28.83	3.1	29	-275	clear
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	
Previous Field measurement (5/16/2006)			7.68	44900	3.94	1.8	32.14	2.9		-192	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	Y		N	

Sample Time 1435 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: totalizer has a higher volume than what we calculated.

Initial Depth to Water (ft BTOC): 31.83

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (367.35)

SWH (Standing Water Height) = WD-Initial Depth 335.52

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

One Casing Volume = D*SWH 57.04

Three Casing Volumes = 171.1

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

Odor: (none) sulphur, organic, other

Measure Point (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: C100952

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 0907
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1454
0906	31.83	1459	32.08	

Comments:

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

Topock Sampling Log

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 1
Field Conditions Partly Cloudy, Breezy 85°F
Sampling Event 2006-GMP-110-Q3
Date 10/10/06
Page 1 of

Well/Sample Number MW-50-095-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1032
Purge Method MOBILE Redi Flo
Ded. Pump
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L) 28 GAL
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
42.25	1033	0	7.38	5.16	10.1	5.88	28.49	.27	3.2	84	
42.23	1036	6	7.54	5.77	7.81	3.10	28.56	.31	3.7	64	
42.25	1039	12	7.68	6.26	27.9	3.03	28.57	.34	4.0	50	
42.26	1042	18	7.71	6.57	7.33	3.04	28.60	.36	4.2	38	
42.26	1045	24	7.72	6.78	6.14	2.99	28.63	.37	4.3	32	
42.27	1048	30	7.72	6.95	2.21	2.87	28.51	.38	4.4	27	
42.27	1051	36	7.72	7.08	1.51	2.85	28.58	.38	4.5	25	
42.28	1054	42	7.72	7.12	.91	2.85	28.57	.39	4.5	24	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement		(5/24/2006)	7.36		8.9	3.42	31.08			50	
Are measurements consistent with previous?			N	—	N	N	NA	—	—	N	

Sample Time 1055 Sample Location: pump tubing ✓ well port ______ spigot ______ bailer ______ other ______

Comments:

Initial Depth to Water (ft BTOC): 41.52
Measure Point: (Well TOC) Steel Casing
WATER LEVEL METER SERIAL NUMBER: Rate 2005-C3
Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (96.45)
SWH (Standing Water Height) = WD-Initial Depth 54.93
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 9.4
Three Casing Volumes = 28

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1008
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1108
1007	41.52	1108	41.55	
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 338234.GM.02.00
Field Team 1
Field Conditions Partly Cloudy, Breezy, 80°F
Sampling Event 2006-GMP-110-Q3
Date 10/10/06
Page 1 of

Well/Sample Number MW-50-200-110
QC Sample ID NA
QC Sample Time NA
Purge Start Time 0909
Purge Method MoBile Redi Flo **Ded. Pump**
Flow Cell: (Y) / N
Min. Purge Volume (gal)/(L) 79.20 **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
49.05	0910	0	6.41	23.8	1.11	3.37	28.29	1.45	15	153	
49.05	0915	10	6.87	23.8	.67	1.51	28.47	1.45	15	105	
49.12	0920	20	7.05	23.9	.78	1.21	28.58	1.46	15	84	
49.20	0925	30	7.41	25.0	.89	2.66	29.01	1.54	16	80	
48.95	0930	40	7.55	25.9	.61	2.98	29.08	1.60	16	86	
48.95	0935	50	7.60	26.8	.63	2.83	29.02	1.66	17	91	
48.95	0940	60	7.65	27.4	.65	3.05	28.98	1.70	17	92	
48.96	0945	70	7.69	27.9	.38	3.11	29.06	1.73	17	92	
48.95	0950	80	7.70	28.1	.70	2.99	28.96	1.75	17	93	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (5/24/2006)			7.1	37000	2.12	4.11	32.25	2.4		60	
Are measurements consistent with previous?			Y	Y	N	N	NA	N	✓	N	

Sample Time 0955 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 42.02
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (204.5)
SWH (Standing Water Height) = WD-Initial Depth 161.98
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 26.4
Three Casing Volumes = 79.2

Measure Point: (Well TOC) Steel Casing
PGAQ 2005-C3
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 0934 / Time of Reinstallation 1000
0932	42.02	1011	42.10	

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 338234.GM.02.00
Field Team 1
Field Conditions Overcast, Drizzle

Sampling Event 2006-GMP-110-Q3
Date 10/6/06
Page 1 of 1

Well/Sample Number MW-51-110
QC Sample ID NA
QC Sample Time —

Purge Start Time 0753
Purge Method Redi-Flow2 **Ded. Pump** No

Flow Cell: (Y) / N
Min. Purge Volume (gal)/(L) 132 **Purge Rate** (gpm)/(mL.pm) 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
56.67	0810	34	7.36	14.3	1.83	2.49	28.90	0.8	9	144	
56.03	0825	64	7.40	14.0	1.58	3.27	29.03	0.8	9	133	
56.22	0840	94	7.41	13.9	1.15	3.45	29.14	0.8	9	128	
56.34	0855	124	7.41	13.8	1.24	3.55	29.24	0.8	9	121	
—	~~0910~~	~~154~~	—	—	—	—	—	—	—	—	
56.43	0905	144	7.41	13.8	1.15	3.79	29.21	0.8	9	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	Y	Y	NA	Y	Y	Y
Previous Field measurement	(5/30/2006)	7.4	10600	1.59	1.53	33.16	0.6	—	17
Are measurements consistent with previous?		Y	N	Y	N	NA	Y	—	N

Sample Time 0910 **Sample Location:** pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 46.58
Field measured confirmation of Well Depth (ft btoc): Not Cluster
WD (Well Depth - from database) ft btoc (113.25)
SWH (Standing Water Height) = WD-Initial Depth 66.67
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 44.0
Three Casing Volumes = 132

Measure Point: (Well TOC) Steel Casing **WATER LEVEL METER SERIAL NUMBER:** 2005-02

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	0732
0730	46.58	0932	46.60	Time of Reinstallation	0927

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 338234.GM.02.00
Field Team 1
Field Conditions Partly Cloudy

Sampling Event 2006-GMP-110-Q3
Date 10/06/06
Page 1 of 1

Well/Sample Number OW-03D-110
QC Sample ID NA
QC Sample Time —
Purge Start Time 1030
Purge Method Redi-Flow
Ded. Pump No
Flow Cell: (Y) / N
Min. Purge Volume (gal) (L) 88
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
102.41	1035	~~15~~ 10	7.56	10.3	1.26	2.26	29.74	0.6	6	98	
102.41	1040	~~30~~ 20	7.62	10.3	1.24	2.0	30.10	0.6	6	91	
102.41	1045	~~45~~ 30	7.68	10.8	1.26	1.98	30.79	0.6	7	82	Checked volume of tank
102.40	1050	~~60~~ 40	8.00	11.2	1.62	1.99	30.85	0.6	7	72	vs. totalizer reading/totalizer
102.39	1055	~~75~~ 50	8.03	11.3	1.32	1.98	30.88	0.6	7	68	calibrating well, but tank not
102.39	1100	~~90~~ 60	8.04	11.5	1.13	1.99	30.77	0.7	7	63	corresponding / Possibly air at
	1105	70									beginning of purge / Continue
102.46	1110	80	8.06	11.5	1.25	2.05	30.91	0.7	7	58	purging @ 2gpm
102.46	1115	90	8.06	11.5	1.09	2.05	30.89	0.7	7	55	
102.44	1120	100	8.06	11.5	1.10	2.05	30.78	0.6	7	~~52~~	
Parameter Stabilization Criteria			pH 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (3/9/2006)			7.66	7840	2.2	2	29.71	0.4	—	-1	
Are measurements consistent with previous?			N	N	Y	Y	NA	Y	—	N	

Sample Time ~~1105~~ MH 1125 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 101.74
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (274)
SWH (Standing Water Height) = WD-Initial Depth 172.26
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 29.3
Three Casing Volumes = 87.9

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

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

If Transducer
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

Topock Sampling Log

Project Name: PGE Topock GMP
Job Number: 338234.GM.02.00
Field Team: 1
Field Conditions: Sunny

Sampling Event: 2006-GMP-110-Q3
Date: ~~10/06/06~~ 10-12-06
Page: ____ of ____

Well/Sample Number: OW-03M-110
QC Sample ID: MW-98-110
QC Sample Time: [redacted] 1130
Purge Start Time: 1045
Purge Method: Redi-Flow Ded. Pump: No
Flow Cell: (Y) / N
Min. Purge Volume (gal)/(L): 5 1
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
102.28	1049	8	8.15	6.84	4.3	2.23	31.97	0.38	4.6	86	WATER CLEAR/NO ODOR.
102.28	1053	16	8.27	6.83	4.7	1.78	31.73	0.37	4.4	81	
102.28	1057	24	8.31	6.70	2.3	1.57	31.81	0.36	4.3	78	
102.28	1101	32	8.34	6.56	1.2	1.40	31.86	0.35	4.3	78	
102.28	1105	40	8.38	6.46	0.9	1.34	31.89	0.35	4.2	77	
102.29	1109	48	8.40	6.39	1.0	1.32	31.85	0.34	4.1	76	
102.29	1113	56	8.42	6.32		1.30	31.85	0.34	4.1	75	
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				
Previous Field measurement (5/4/2006)			7.88	6650	0.74	2.59	31.21	0.4		121	
Are measurements consistent with previous?							NA				

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

Comments: 10/06/06 - Well not purged due to pump malfunction
10-12-06 Purged and Sampled Well - Time For Duplicate Was made up = 1130

Initial Depth to Water (ft BTOC): ~~101.92~~ 102.08 ← 10-12-06
Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 2005 - 01
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (202)
SWH (Standing Water Height) = WD-Initial Depth ~~100~~ 99.92
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH ~~17.0~~ 16.98
Three Casing Volumes = ~~51.0~~ 50.95

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal: NO TRANSDUCER
~~1028~~	~~102.08~~			Time of Reinstallation: IN WELL.
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 338234.GM.02.00
Field Team 1 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10-12-06
Page ____ of ____

Well/Sample Number OW-03S-110 QC Sample ID NA QC Sample Time ____

Purge Start Time 1226 Purge Method 2" ~~Redyflow~~ Sub. Pump ____

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 8.33 Purge Rate (gpm)/(mLpm) 1.9 pm

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
102.05	1228	2	8.35	5.86	2.4	1.60	34.15	0.30	3.7	94	
102.10	1230	4	8.38	4.54	349	2.20	33.68	0.20	2.5	95	
102.13	1234	8	8.35	3.20	62	3.68	32.94	0.16	2.0	93	
102-15	1238	12	8.29	2.87	17	5.40	32.37	0.14	1.8	88	
102-15	1242	16	8.22	2.80	6.41	5.72	32.15	0.14	1.8	86	
102.16	1246	20	8.19	2.80	~~6.04~~ 3.50	~~5.50~~ 6.04	32.06	0.14	1.8	85	
102.16	1250	24	8.18	2.87	2.86	6.02	31.89	0.14	1.9	85	
102.16	1254	28	8.18	2.84	1.97	6.01	31.80	0.14	1.8	85	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	MISTAKE MADE AT 1246
Did Parameters Stablize prior to sampling?							NA				TURB AND D/O WERE
Previous Field measurement (3/9/2006)			7.43	2480	8.5	6.77	29.23	0.1		57	SWITCHED.
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 101.65

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (118)

SWH (Standing Water Height) = WD-Initial Depth 16.35

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

One Casing Volume = D*SWH 2.77

Three Casing Volumes = 8.33

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	NO TRANSDUCER
101.65	1220	____	____	Time of Reinstallation	IN WELL
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 320234.0M.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006 - GMP - 110 - Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number TW-2D-110 QC Sample ID NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump X

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

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	ElVORP mv	Comments (See description below
—	1414	—	7.38	11.9	1.15	4.91	29.06	0.68	8.7.0	162	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				don't have info
Are measurements consistent with previous?							NA				

Sample Time 1415 Sample Location: pump tubing ~~X~~ well port X spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): NA

WD (Well Depth - from table) ft bls ____

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: N/A

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	N/A
N/A	N/A	N/A	N/A	Time of Reinstallation	N/A
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: 330234.GM.02.00
Field Team: 3
Field Conditions: cloudy, hot
Sampling Event: 2006 GMP - 110 - Q3
Date: 10/4/06
Page: 1 of 1

Well/Sample Number: TW-25-110
QC Sample ID: NA
QC Sample Time: NA
Purge Start Time: N/A
Purge Method: N/A
Ded. Pump: N
Flow Cell: Y / (N)
Min. Purge Volume (gal)/(L): NA
Purge Rate (gpm)/(mLpm): NM

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	1458	Running	7.60	3.417	3.87	6.70	28.95	0.18	2.2	224	Grab Sample
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				
Are measurements consistent with previous?							NA				

Sample Time: 1500 Sample Location: pump tubing ____ well port X spigot ____ bailer ____ other ____
Comments: TW-25 turned on Purge 2 min - Sample

Initial Depth to Water (ft BTOC): NA can't measure
Measure Point: Well TOC Steel Casing
WATER LEVEL METER SERIAL NUMBER: N/A
WD (Well Depth - from table) ft blc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.04
One Casing Volume = D*SWH
Three Casing Volumes =

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

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 338234.GM.02.00
Field Team 2 **Field Conditions**

Sampling Event 2006-GMP-110-Q3
Date 10/9/06
Page 1 of

Well/Sample Number TW-04-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time 0759 **Purge Method** MP52 Bail. Pump **Ded. Pump**

Flow Cell (Y) N **Min. Purge Volume (gal)/(L)** 449gal **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
~~30.85~~ 29.42	0800	0	6.67	23.2	0.95	2.01	26.57	1.41	14	209	
30.86	0820	~~30~~ 60	7.23	23.1	0.57	1.05	~~27.77~~	1.41	14	154	
30.93	0840	~~60~~ 120	7.60	25.2	0.49	1.02	28.69	1.55	16	119	
30.95	0900	~~90~~ 180	7.62	25.2	0.30	1.02	28.66	1.55	16	87	
30.96	0920	~~120~~ 240	7.61	25.0	0.37	1.00	29.04	1.53	15	47	Pump off to dump pump water
31.00	~~0940~~ 1003	~~150~~ 300	7.55	24.8	0.33	1.10	29.53	1.52	15	53	
31.02	~~1043~~	~~180~~ 360	7.55	24.6	0.37	1.10	29.89	1.51	15	34	
31.04	~~1103~~	~~210~~ 420	7.56	24.9	0.35	1.10	29.91	1.53	15	17	
31.06	~~1123~~	450	7.55	24.7	0.38	1.11	30.04	1.51	15	12	
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	✓	✓	✓	
Previous Field measurement (6/5/2006)			6.35	18300	1.08	0	35.62	1.09		-131	
Are measurements consistent with previous?			N	N	N	N	NA	N	NA	N	

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

Comments: 255* 29.42 = 225.58 X .166 = 148gal/vol X 3 = 447gal
Pumped 0920 - Dump back on @ 1003 FINAL PTW=

PGE-2005-C3

Initial Depth to Water (ft BTOC): 29.42'
Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (255)
SWH (Standing Water Height) = WD-Initial Depth 225.58
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 149
Three Casing Volumes = 450gal

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

Initial DTW / Before Removal		NA		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: 338234.GM.02.00
Field Team: 2
Field Conditions: Sunny, Slight Breeze, 95°F
Sampling Event: 2006-GMP-110-Q3
Date: 10/9/06
Page: 1 of ____

Well/Sample Number: TW-05-110
QC Sample ID: NA
QC Sample Time: N/A
Purge Start Time: 1236
Purge Method: Redi Flo Ded. Pump: ____
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L): 220 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
41.75	1238	0	7.45	12.1	0.70	5.58	29.53	0.69	7	120	
41.83	1248	28	7.26	12.0	0.54	3.71	29.35	0.69	7	109	
41.84	1256	56	7.74	16.1	0.36	1.50	29.60	0.95	10	85	
41.85	1305	84	7.77	16.2	0.31	1.32	29.69	0.95	10	82	
41.85	1314	112	7.78	16.1	0.47	1.22	30.02	0.95	10	77	
41.85	1323	140	7.78	16.1	0.41	1.19	29.68	0.95	10	73	
41.84	1332	168	7.78	15.9	0.42	1.16	29.70	0.93	10	70	
41.83	1341	196	7.78	15.9	0.98	1.14	29.71	0.93	10	65	
41.83	1354	230	7.79	15.8	0.44	1.12	29.90	0.93	10	60	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (6/1/2006)			6.72	10600	1.72	1.51	34.87	0.61		17	
Are measurements consistent with previous?			N	N	Y	N	NA	Y	✓	N	

Sample Time: 1400 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____
Comments: 152.5 - 41.32 = 111.18 x 0.66 = 73 x 3 = 220 gal

Initial Depth to Water (ft BTOC): 41.32
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (152.5)
SWH (Standing Water Height) = WD-Initial Depth 111.18
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 73
Three Casing Volumes = 220

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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number Park Moabi-110 QC Sample ID NA QC Sample Time NA

Purge Start Time 1337 Purge Method N/A Ded. Pump N/A

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

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
—	~~1334~~ 1347	—	7.74	1.63	10.2	~~6.59~~	30.03	0.08	1.0	69	
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
Previous Field measurement (5/3/2006)			8.28	1510	0.83		29.3	0.07		112	
Are measurements consistent with previous?			N	Y	N		NA				

Sample Time 1350 Sample Location: pump tubing ~~X~~ RUS well port X spigot ____ bailer ____ other ____

Comments: DO sensor not working

Initial Depth to Water (ft BTOC): Can't measure

Field measured confirmation of Well Depth (ft btoc): ~~N/A~~

WD (Well Depth - from database) ft btoc (252)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"=0.17, 4"= 0.66, 1"=0.041 (8 In)

One Casing Volume = D*SWH

Three Casing Volumes =

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

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
N/A	N/A	N/A	N/A	

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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number CON-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time _____ Purge Method N/A Ded. Pump N

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

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
—	1235	—	8.02	1.29	1.49	7.18	20.95	0.06	0.8	184	
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
Previous Field measurement (9/6/2006)			8.7	1310	2	7.98	23.8	0.07	~	58	
Are measurements consistent with previous?			~	Y	Y	~	NA	Y	~	N	

Sample Time 1235 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other grab

Comments: _____

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): _____

WD (Well Depth - from database) ft btoc _____

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

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

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

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

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
N/A	N/A	N/A	N/A	

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 338234.GM.02.00
Field Team 3 **Field Conditions** cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number I-3-110 **QC Sample ID** NA **QC Sample Time** NA

Purge Start Time N/A: **Purge Method** N/A **Ded. Pump** N

Flow Cell: Y / (N) **Min. Purge Volume (gal)/(L)** NA **Purge Rate (gpm)/(mLpm)** NM

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
—	1125	—	8.03	1.30	2.90	~~8.75~~ ~~4.75~~	22.31	0.06	0.8	1.77	
1428	6.58										Note from Kat: not sure if this is 4.58 or 6.58? will ask field crew - KLB

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?					NA				→ NA
Previous Field measurement (9/6/2006)	8.72	1500	5.95	8	23.9	0.07	—	60	
Are measurements consistent with previous?	~	Y	N	Y	NA	Y	—	N	

Sample Time 1130 **Sample Location:** pump tubing ~~KLB~~ well port _____ spigot _____ bailer _____ other grab sample

Comments: DO sensor not working

Initial Depth to Water (ft BTOC): ~~6.58~~ KLB
Field measured confirmation of Well Depth (ft btoc): NA
WD (Well Depth - from database) ft btoc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041
One Casing Volume = D*SWH
Three Casing Volumes =

Measure Point: bolt on foot bridge Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: N/A

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
N/A	N/A	N/A	N/A	

Comments:

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

Odor: (none) sulphur, organic, other

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

Project Name PGE Topock GMP
Job Number 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number NR-1-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump N

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

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
—	1242	—	8.01	1.29	0.98	9.17	20.53	0.06	0.8	180	
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
Previous Field measurement (9/6/2006)			8.74	1320	2.53	8.05	23.9	0.06	—	59	
Are measurements consistent with previous?			~	Y	N	N	NA	Y	—	N	

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

Comments: ____

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

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

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

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal N/A
N/A	N/A	N/A	N/A	Time of Reinstallation N/A
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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number NR-2-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump N

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

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
—	1248	—	8.00	1.29	0.65	9.21	20.46	0.06	0.8	179	
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
Previous Field measurement (9/6/2006)			8.75	1320	5.83	8.23	24.5	0.06	—	56	
Are measurements consistent with previous?			~	Y	N	N	NA	Y	—	N	

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

Comments:

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

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

One Casing Volume = D*SWH

Three Casing Volumes =

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 N/A
Time	Initial DTW	Time	Final DTW	Time of Reinstallation N/A
N/A	N/A	N/A	N/A	
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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number NR-3-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump N

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

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
—	1252	—	8.61	1.29	0.89	9.20	20.41	0.06	0.8	178	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?					NA				NA
Previous Field measurement (9/6/2006)	8.84	1400	3	8.71	26	0.07		62	
Are measurements consistent with previous?	~	~	N	~	NA	Y		~	

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

Comments: _____

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): _____

WD (Well Depth - from database) ft btoc _____

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

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

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

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

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
N/A	N/A	N/A	N/A	

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 338234.GM.02.00
Field Team 3 Field Conditions

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number R-22-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump N

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

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
—	1135	—	8.11	1.30	2.04	—	22.32	0.06	0.8	190	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?			—	—	—	—	NA	—	—	—	NA
Previous Field measurement (9/7/2006)			7.89	1320	0.63	9.49	23.4	0.05		90	
Are measurements consistent with previous?							NA				

Sample Time 1146 Sample Location: pump tubing ___ well port ___ spigot ___ bailer ___ other grab sample

Comments: ___

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ___

WD (Well Depth - from database) ft btoc ___

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

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

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

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

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
N/A	N/A	N/A	N/A	

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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
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Well/Sample Number R-27-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time ~~N/A~~ 1148 Purge Method ~~N/A~~ peristaltic Ded. Pump N

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

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
—	1149	—	8.11	1.30	1.63	—	21.61	0.06	0.8	177	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			—			—	NA			—	→ NA.
Previous Field measurement (9/7/2006)			8.09	1220	1.15	9.47	23.7	0.06		80	
Are measurements consistent with previous?			Y	Y	Y	—	NA				

Sample Time 1150 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other grab sample

Comments: DO sensor not working

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

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

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

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

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

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
N/A	N/A	N/A	N/A	

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 333234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number R-28-110 **QC: Sample ID** NA QC Sample Time NA

Purge Start Time 1203 Purge Method peristaltic Ded. Pump N

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

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
—	1204	—	8.10	1.30	2.04	—	21.37	0.06	0.8	175	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stabilize prior to sampling?							NA				>NA
Previous Field measurement (9/7/2006)			8.08	1240	0.73	9.52	24.1	0.06	—	82	
Are measurements consistent with previous?			Y	Y	N	—	NA	Y	—	N	

Sample Time 1205 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: DO sensor not working

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

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

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

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

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

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
N/A	N/A	N/A	N/A	

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 338234.GM.02.00
Field Team 3 Field Conditions cloudy, hot

Sampling Event 2006-GMP-110-Q3
Date 10/4/06
Page 1 of 1

Well/Sample Number RRB-110 **QC Sample ID** NA QC Sample Time NA

Purge Start Time N/A Purge Method N/A Ded. Pump N

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

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
—	1220	—	7.93	1.35	7.05	—	24.04	0.06	0.9	202	
22.73	1400										

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
Previous Field measurement (9/6/2006)	8.62	1440	6.1	5.84	27.7	0.07	—	69	
Are measurements consistent with previous?	N	Y	Y	—	NA	Y	—	N	

Sample Time 1225 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other grab sample

Comments: DO sensor not working

Initial Depth to Water (ft BTOC): ~~37~~ NA

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

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

One Casing Volume = D*SWH

Three Casing Volumes =

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

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
N/A	N/A	N/A	N/A	
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

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/2/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE

Rec'd 10/02/06
& 959336

959336

ALERT!
Level III QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-43-070-110	10/2/06	0930	GW		X	X	X	X			pH - 2
2	MW-43-090-110	10/2/06	1015	GW		X	X	X	X			pH - 2
3	MW-43-025-110	10/2/06	1130	GW		X	X	X	X			pH - 2
4	MW-32-020-110	10/2/06	1340	GW		X	X	X	X	X		pH - 2
5	MW-32-035-110	10/2/06	1433	GW		X	X	X	X	X		pH - 2

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matthew Ringler	CH2M Hill	10/2/06 1530
Signature (Received)	Hargarove	T-L I	10/2/06 2000
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number
TURNAROUND TIME 10 Days
DATE 10/2/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 34
SAMPLERS (SIGNATURE J Brunton

Rec'd 10/02/06
~~38e~~ 959335

959335

ALERT!!
Level III QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-36-090-110	10/2/06	1450	GW		X	X	X	X		3	pH-2
2	MW-36-070-110	↓	1200	↓		X	X	X	X		3	pH-2
3	MW-36-020-110	↓	1005	↓		X	X	X	X		3	pH-2
4	MW-94-110	↓	1510	↓		X	X	X	X		3	pH-2

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) J Brunton	Jenny Bradtmueller	CH2MHill	10/2/06 1527
Signature (Received) Mongrove	Mongrove	T-I	10/2/06 1527
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

SPECIAL REQUIREMENTS:

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/2/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE Brad Sheaff

Rec'd 10/02/06
959337

959337

ALERT!!
Level III QC

For Sample Conditions
See Form Attached

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-17-110	10/2/06	0935	Groundwater		X	X	X	X		3	pH-2
MW-18-110		1300			X	X	X	X		3	pH-2
MW-91-110		1400		BS X	X	X	X	X		3	pH-2
MW-19-110		1425		X BS	X	X	X	X		3	7196 pH-2
MW-13-110	↓	1350	↓	BS X	X	X	X	X		3	7199 pH-2
~~MW-90-110~~ MW-92-110	↓	1200	↓	X BS	X	X	X	X		3	7196, MW-92-110
CANCELLED (PK)											

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Sheaff	Brad Sheaff	CH2M HILL	10/2/06 1430
Signature (Received) MANGARVA	MANGARVA	T-L I	10/2/06 20:00
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

959400

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/3/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shearer

Rec'd 10/03/06
959400

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	MW-20-100-110	10/3/06	0935	Groundwater	X		X	X	X	X	3	pH-2
-2	MW-20-070-110		1025		X		X	X	X	X	3	
-3	MW-90-110		1200		X		X	X	X	X	3	
-4	MW-25-110		0835		X		X	X	X	X	3	

ALERT!!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Shearer	Brad Shearer	CH2M Hill	10/3/06 1130
Signature (Received) Nicholle Bleiler	Nicholle Bleiler	TLI	10/3/06 6:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

959412

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/3/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) [signature]

Rec'd 10/03/06
959412

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	MW-42-030-110	10/3/06	1235	GW		X	X	X	X		3	PH-2
-2	MW-42-055-110	10/3/06	1305	GW		X	X	X	X		3	
-3	MW-42-065-110	10/3/06	1400	GW		X	X	X	X		3	
											9	

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Matt Riggio	E2	10/3/06 1530
Signature (Received) [signature]	Nichelle Bleiler	TLI	10/3/06 9:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

959403

COC Number

TURNAROUND TIME 10 Days

DATE 10/3/06 PAGE 1 OF 1

959403 Rec'd 10/03/06 pgs

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1 MW-27-020-110	10/3/06	855	GW	X	X	X	X	X		3	pH-2
2 MW-27-060-110	10/3/06	935	GW	X	X	X	X			3	MW-27-085-110
3 MW-27-085-110	10/3/06	1025	GW	X	X	X	X			3	

ALERT!!
Level III QC

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	E2	10/3/06 1200
Signature (Received)	David S	TLI	10/3/06 18:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

959409

TRUESDAIL LABORATORIES, INC.
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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/3/06 PAGE 1 OF 7

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Sheerer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1 MW-24A-110	10/3/06	1325	Groundwater		X	X	X	X	X	3	PH-2
-2 MW-24B-110	↓	1252	↓		X	X		X	X	3	↓
-3 MW-26-110	10/3/06	1520	Groundwater	X		X	X	X	X	3	
-4 MW-27-110	↓	1538	↓		X	X	X	X	X	3	↓

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Sheerer	Brad Sheerer	CH2M HILL	10/3/06 1530
Signature (Received) Nicholle Bleeker	Nicholle Bleeker	TLI	10/3/06 1530
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

SEAN 959467

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE ~~10/4/06~~ 10/4/06 PAGE 1 OF 2

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	J Bruton

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Cr Lab	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Cr6 (218.6) Lab filtered	Total Metals 3 (200.7) Chromium	Diss. Metals (6010B) Field Filtered (Hexavalent Chromium)						NUMBER OF CONTAINERS	COMMENTS
1	I-3-110	10/4/06	1130	SW		X	X	X	X		~~X~~								3	pH = 7
2	TW-2D-110		1415	GW	X			X	X				X						4	pH = 2
3	RRB-110		1225	SW		X	X	X	X										3	pH = 2
4	Park Mobi-110		1350	GW				X	X		X	X							3	pH = 2
5	NR-3-110		1255	SW		X	X	X	X										3	
6	NR-2-110		1250	SW		X	X	X	X										3	
7	NR-1-110		1245	SW		X	X	X	X										3	pH = 7
8	CDN-110		1235	SW		X	X	X	X										3	
9	R-28-110		1205	SW		X	X	X	X	X									3	

ALERT II Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Kathryn E. Brown	Company/ Agency CH2M Hill	Date/ Time 10/4/06 1530
Signature (Received) J Brown	Printed Name J Brown	Company/ Agency TU	Date/ Time 10-4-06 21:10
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:

For Sample Conditions See Form Attached

959467

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CHAIN OF CUSTODY RECORD

[2006-RMP-110]

COC Number

TURNAROUND TIME 10 Days

DATE 10/4/06 PAGE 2 OF 2

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) J Brunter

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	SW7199 - river Field Filtered	Diss Metals (6010B) Field Filtered Chromium	Cr6 (7199) Lab filtered	Diss. Metals (6010B) Lab Filtered	Specific conductance (120.1)	pH (150.1)	TDS (160.1)	CR6 (7196A) Lab filtered	NUMBER OF CONTAINERS	COMMENTS
10	R-27-110	10/4/06	1150	SW			X	X	X	X	X		3	pH=7
11	R-22-110	10/4/06	1140	SW			X	X	X	X			3	pH=7
12	TW-25-110	10/4/06	1500	SW		X			X	X		X	4	pH=2

Rec'd 10/04/06
959467

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brunter	Cham Hill	10/4/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 959458

TURNAROUND TIME 10 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Matt Ringer

ALERT!! Level III QC

Rec'd 10/04/06
COC 959458

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)		NUMBER OF CONTAINERS	COMMENTS
MW-34-055-110	10/4/06	1025	GW	X	X	X	X	X			3	P4-2
MW-34-100-110	10/4/06	1120	GW	X	X	X	X				3	PLS

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Ringer	Company/ Agency E2	Date/ Time 10/4/06 1200	
Signature (Received)	Printed Name [illegible]	Company/ Agency T-Li	Date/ Time 10/4/06 15:30	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 3

TURNAROUND TIME ~~10~~ 3 Days

DATE 10/4/06 PAGE 1 OF 1

959455

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE [signature]

ALERT!! Level III QC

RUSH!

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)									NUMBER OF CONTAINERS	COMMENTS
MW-34-100 - 110	10/4/06	1120	GW		X	X	X	X										3	pH-2

For Sample Conditions See Form Attached

Rec'd 10/04/06 959455

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Matt Ringis	E2	10/4/06 1200
Signature (Received) MONGAROVA	MONGAROVA	E.L.I	10/4/06 4:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Sean 959465

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shaver

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-12-110	10/4/06	0907	Groundwater	X		X	X	X		3	pH<2
2	MW-18-110		1209			X	X	X	X		3	
3	MW-410-110		1412			X	X	X	X		3	
4	MW-23-110		1516			X	X	X	X		3	

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Brad Shaver	CH2M Hill	10/4/06
Signature (Received)	J Brown	TRI	Date/ 10-4-06 Time 21:10
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:

For Sample Conditions See Form Attached

959466 Sean

TRUESDAIL LABORATORIES, INC.
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(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 12

SAMPLERS (SIGNATURE) Brad Shearer

ALERT!! Level III QC

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1 MW-34-80-110	10/4/06	1330	GW	X	X	X	X	X		3	
2 MW-44-70-110	10/4/06	1522	GW	X	X	X	X			3	pH = 2
3 EB100406-T2	10/4/06	1620	GW	X	X					2	not field filtered (6010B)
4 EB100406-T1	10/4/06	1625	GW	X	X					2	not field filtered (6010B)

Rec'd 10/04/06
959466

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Shearer	Brad Shearer	CH2M HILL	10/4/06 1600
Signature (Received) J Brown	J Brown	TU	Date/ 10-4-06 Time 2110
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TRUESDAIL LABORATORIES, INC.
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(714)730-6239 FAX: (714) 730-6462
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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3] 959504

COC Number:
TURNAROUND TIME: 10 Days
DATE: 10/5/06 PAGE 1 OF 1

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	Michelle Hanis

Rec'd 10/05/06
959504

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	QC AMOUNTS
-1	MW-39-050-110	10/05/06	1232	Groundwater		X	X	X	X		3	
-2	MW-39-040-110	↓	1318	↓		X	X	X	X		3	pH=2
3	MW-39-070-110	↓	1353	↓	X		X	X	X		3	

ALERT II Level II QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	Chuck Hill	10/5/06 1530
Signature (Received)	David S	TLT	10/5/06 20:52
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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
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CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number
TURNAROUND TIME 10 Days
DATE 10/05/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE [signature]

Rec'd 10/05/06
959501

ALERT !!
Level III QC

959501

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-36-040-110	10/05/06	0921	Groundwater		X	X	X	X		3	pH-2
2	MW-36-050-110	10/05/06	0845			X	X	X	X		3	pH-2
3	MW-39-060-110	10/05/06	1045			X	X	X	X		3	pH-2
4	MW-39-080-110	10/05/06	1142		X		X	X	X		3	pH-2
5	MW-95-110	10/05/06	1047			X	X	X	X		3	pH-2

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Kathryn Brown	CH2M Hill	10/5/06 1200
Signature (Received) MUNGARAVE	MUNGARAVE	TLI	10/5/06 17:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

959502

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number
TURNAROUND TIME 10 Days
DATE 10/5/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE) [signature]

Rec'd 10/05/06 ~~10/06~~ 959502

ALERT !! Level III QC

For Sample Conditions See Form Attached

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	TW-41M-110	10/5/06	0800	GW		X	X	X	X		3	pH -2
2	TW-96-110	10/5/06	0800	GW		X	X	X	X		3	pH -2
3	TW-41S-110	10/5/06	0845	GW		X	X	X	X		3	pH -2
4	TW-40D-110	10/5/06	1035	GW		X	X	X	X		4	pH -2
5	TW-40S-110	10/5/06	1125	GW		X	X	X	X		4	pH -2

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Brad Shearer	CH2M Hill	10/5/06 1143
Signature (Received) Mansarova	Mansarova	CH2M Hill	10/5/06 17:30
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ______ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TRUESDAIL LABORATORIES, INC.
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(714)730-6239 FAX: (714) 730-6462
www.truesdail.com

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3] 959503

COC Number 3 run
TURNAROUND TIME ~~10~~ Days
DATE 10/5/06 PAGE 1 OF 1

COMPANY: E2
PROJECT NAME: PG&E Topock
PHONE: (530) 229-3303 FAX: (530) 339-3303
ADDRESS: 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER: 338234.GM.02.00 TEAM: 1
SAMPLERS (SIGNATURE: [signature]

Rec'd 10/05/06 959503

RUSH!

ALERT !! Level IN QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-44-115-110	10/5/06	1125	GW	X	X					2	pH=2
2	MW-44-125-110		1055		X	X					2	pH=4
3	MW-46-175-110		1415		X	X					2	pH=2
4	MW-97-110		1430		X	X					2	pH=2
	~~EB-100506-2~~		~~1141~~		~~X~~							

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Kathryn Brown	CH2M Hill	10/5/06 1530
Signature (Received) [signature]	David S	TLI	10/5/06 20:50
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

[2006-GMP-110-Q3] 959505

COC Number

TURNAROUND TIME 10 Days

DATE 10/5/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) JBrunt

Rec'd 10/05/06
959505

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-44-115-110	10/5/06	1125	GW				X	X		1	
2	MW-44-125-110		1055					X	X		1	
3	MW-46-175-110		1415					X	X		1	
4	MW-97-110		1430					X	X		1	
5	FB-100506-2		1141		X						1	
6	MW-46-205-110		1535		X	X	X	X	X		3	

ALERT II Level II QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	Cham Hill	10/5/06 1530
Signature (Received)	David S	TLI	10/5/06 20:50
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

[2006-GMP-110-Q3] 959506

COC Number

TURNAROUND TIME 10 Days

DATE 10/5/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shean

Rec'd 10/05/06
s10b 959506

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-15-110	10/5/06	1235	GW		X	X (N)	X	X		3	pH=2
2	MW-31-135-110		1455	GW	X		X (N)	X	X		3	pH=2
3	MW-31-060-110		1535	GW	X		X (N)	X	X	X	3	pH=2
4	EB-20061005-T1	↓	1510	GW		X		X	X	X (N)	3	pH=2

ALERT !!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Brad Shean	CH2M HILL	10/5/06 1603
Signature (Received)	David S	TLI	10/5/06 20:50
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

[2006-GMP-110-Q3]

COC Number 959543
TURNAROUND TIME 10 Days
DATE 10/06/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 336234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE) Michelle Hoover

ALERT
Level III QC

Rec'd 10/06/06
slot 959543

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-51-110	10/06/06	0910	Groundwater	X	X	X	X			4	pH-2
OW-03D-110	↓	1125	↓	X	X	X	X			3	pH-2
EB20061006-T1	↓	1230	↓	X						1	pH-7

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Michelle Hoover	Michelle Hoover	Catz m Hill	10/06/06 1300
Signature (Received) Ana Brown	Ana Brown	TRUESDAIL	10/6/06 1300
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

[2006-GMP-110-Q3]

COC Number 959542

TURNAROUND TIME 10 Days

DATE 10/6/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) JBrunton

ALERT !!
Level III QC

Rec'd 10/06/06
COC 959542

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-33-040-110	10/6/06	0910	GW	X	X	X	X			3	pH-2
2	MW-33-090-110		1100		X	X	X	X			3	pH-2
3	MW-33-210-110		1245		X	X	X	X			3	pH-2
4	MW-49-110		1245		X	X	X	X			3	pH-2
5	MW-33-150-110		1350		X	X	X	X			3	pH-2
6	EB-100606-2		1118		X						1	pH-7

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M Hill	10/6/06 1600
Signature (Received)	M Hagarman	TLI	10/6/06 1745
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

[2006-GMP-110-Q3]

959578

COC Number 3
TURNAROUND TIME 10 Days
DATE 10/9/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)

ALERT !!
LOW VOL QC

Rec'd 10/09/06
959578

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
TW04-110	10/9/06	1135	GW		X	X	X	X		3	pH-2
EB-GMP100906	10/9/06	1200	GW		X					1	pH-7
TW05-110	10/9/06	1400	GW		X	X	X	X		3	pH-2

For Sample Condition
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trebbe	Chuck Hall	10/9/06 1530
Signature (Received)	Manuel Nevarez	T.L.I	10/9/06 19:20
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

[2006-GMP-110-Q3]

COC Number 2 of 2
TURNAROUND TIME 10 Days
DATE 10/10/06 PAGE 1 OF

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	

959638

Rec'd 10/10/06
959638

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-50-200-110	10/10/06	0955	GW	X	X	X	X			3	pH=2
2	EB-GMP101006	10/10/06	1000	GW	X						1	
3	MW-50-95-110	10/10/06	1055	GW	X	X	X	X			3	pH=2
4	MW-47-115-110	10/10/06	1245	GW	X	X	X	X			3	pH=2
5	MW-47-155-110	10/10/06	1315	GW	X	X	X	X			3	pH=2
6	MW-30-030-110	10/10/06	1400	GW	X	X	X	X	X		3	pH=2

For Sample Conditions See Form Attached

ALERT !! Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trebbe	CH2M Hill	10/10/06 1530
Signature (Received)	David S	TLI	10/10/06 2030
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

959697

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 3 rev
TURNAROUND TIME 10 Days
DATE 10/11/06 PAGE 1 OF

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-30-050-110	10/11/06	0915	GW		X	X	X	X	X	3	
2	MW-92-110	10/11/06	0920	GW		X	X	X	X	X	3	
3	MW-39-100-110	10/11/06	1025	GW	X		X	X	X		3	
4	MW-36-100-110	10/11/06	1200	GW	X		X	X	X		3	
5	MW-28-025-110	10/11/06	1245	GW		X	X	X	X	X	3	

For Sample Conditions See Form Attached

ALERT !!
Level III QC

pH ≥ 2

Rec'd 10/11/06
s12a 959697

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trebble	CH2M HILL	10/11/06 1530
Signature (Received)	J Brown	TTI	10-11-06 2015
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

[2006-GMP-110-Q3]

COC Number 959745

TURNAROUND TIME 10 Days

DATE 10/12/06 PAGE 1 OF 1

ALERT M
Level III QC

Rec'd 10/12/06
959745

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	J Brunt

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
MW-49-135-110	10/12/06	1045	GW	X	X	X	X			3	pg-2
MW-49-275-110		1210		X	X	X	X			3	pg-2
MW-49-365-110		1435		X	X	X	X			3	pg-2
EB-20061012-2		1500		X						3	pg-7

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) J Brunt	Jenny Brautmeier	CH2MHill	10/12/06 1530
Signature (Received) Montemayor	Montemayor	T-L-I	10/12/06 21:20
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

[2006 GMP-11)-Q3]

COC Number
TURNAROUND TIME 10 Days
DATE 10/12/06 PAGE 1 OF 1

959746

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)

ALERT II
Level III QC

Rec'd 10/12/06
959746

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CrVI (7196A) Lab Filtered	CrVI (7199) Lab Filtered	Dissolved Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	MW-09-110	10/12/06	925	GW	X		X	X	X			pH-2
-2	MW-10-110	10/12/06	1115	GW	X		X	X	X			pH-2
-3	MW-380-110	10/12/06	1215	GW	X		X	X	X			pH-2
-4	MW-385-110	10/12/06	1355	GW	X		X	X	X			pH-2
-5	EB-101206-3	10/12/06	1310	EB		X						pH-7
-6	MW-11-110	10/12/06	1430	GW	X		X	X	X			pH-2

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	E2	10/12/06 1540
Signature (Received)	MANGARENA	T-E-I	10/12/06 2120
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

[2006-GMP-110-Q3]

COC Number 959747

TURNAROUND TIME 10 Days

DATE _____ PAGE ___ OF ___

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE)	

ALERT !!
Level III QC

Rec'd 10/12/06
959747

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Cr6 (7196A) Lab Filtered	Cr6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	MW-35-060-110	10/12/06	1448	GW		X	X	X	X			pH-2
-2	MW-35-135-110	10/12/06	1407	GW		X	X	X	X			pH-2
-3	OW-03M-110	10/12/06	1115	GW		X	X	X	X			pH-2
-4	MW-98-110	10/12/06	1130	GW		X	X	X	X			pH-2
-5	OW-035-110	10/12/06	1256	GW		X	X	X	X			pH-2
-6	EB-101206-01	10/12/06	1515	G-EQ		X						pH-7
-7	MW-93-110	10/12/06	1320	GW		X	X	X	X			pH-2

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Ringler	E2	10/12/06 1540
Signature (Received)	Montgomery	TLI	10/12/06 21:20
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ___ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

043

959767

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/13/06 PAGE 1 OF 1

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	JBrunta

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1 MW-37S-110	10/13/06	1215	GW		X	X	X	X		3	pH<2
2 MW-37D-110	↓	1150	↓	X		X	X	X		3	pH<2
3 EB-101306-3	↓	1420	↓		X					1	

For Sample Conditions See Form Attached

ALERT II
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) JBrunta	Jenny Braatmueller	CH2MHill	10/13/06 1500
Signature (Received) JBrown	JBrown	TTI	10-13-06 9145
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL [ ] WARM [ ] °F

CUSTODY SEALED YES [ ] NO [ ]

SPECIAL REQUIREMENTS

959766 Sean

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

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 10 Days

DATE 10/13/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE [signature]

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	MW-29-110	10/13/06	0900	GW	X	X	X	X			3	pH = 2
2	EB-101306-02	10/13/06	0915	GW	X						1	
3	MW-28-090-110	10/13/06	0945	GW	X	X	X	X			3	pH = 2
4	MW-27-085-110	10/13/06	1220	GW	X	X	X	X			3	↓
5	MW-22-110-	10/13/06	1325	GW	X	X	X	X			3	

ALERT !! Level III QC

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/Agency	Date/Time
Signature (Relinquished) [signature]	Jenny Bradtmueller	CH2MHill	10/13/06 1500
Signature (Received) [signature]	J Brown	TLI	10-13-06 9/45
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

FROM (THU) OCT 19 2006 8:30/ST. 8:29/No. 6800000650 P 4

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

959934

CHAIN OF CUSTODY RECORD

[2006-GMP-~~140-03~~] 111

COC Number 3
TURNAROUND TIME Days
DATE 10/18/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE L McElliott

Rec'd 10/19/06 959934

RUSH!

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)								NUMBER OF CONTAINERS	COMMENTS
1	~~MW-44-125-111~~	~~10/18/06~~	~~0945~~	~~groundwater~~		~~X~~	~~X~~											2	pH=2
2	~~MW-90-111~~	~~10/18/06~~	~~1015~~	~~groundwater~~		~~X~~	~~X~~											2	pH=2
3	~~MW-44-115-111~~	~~10/18/06~~	~~1030~~	~~groundwater~~		~~X~~	~~X~~											2	pH=2
4	~~EB-111-1~~	~~10/18/06~~	~~1120~~	~~equipment blank~~		~~X~~												1	
5	~~MW-46-175-111~~	~~10/18/06~~	~~1200~~	~~groundwater~~		~~X~~	~~X~~											2	pH=2
6	~~MW-34-100-111~~	~~10/18/06~~	~~1245~~	~~groundwater~~		~~X~~	~~X~~											2	pH=2
7	MW-20-130-111	10/18/06	1410	groundwater	X		X	X	X	X								3	pH=2
																		14	total

CHAIN OF CUSTODY SIGNATURE RECORD

Signature		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)	L McElliott	Printed Name	Laura Elliott	Company/ Agency	CH2M Hill	Date/ Time	10/18/06 1530
Signature (Received)	L. Shakeman	Printed Name	L. Shakeman	Company/ Agency	TLI	Date/ Time	10/18/06 19:45
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	

ALERT!! Level III QC

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

[2006-GMP-119-Q3]

COC Number
TURNAROUND TIME 10 Days
DATE ______ PAGE ___ OF ___

COMPANY E2
PROJECT NAME PG&E Topock
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE ______

960316

ALERT!! Level III QC

Rec'd 11/1/06 960316

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	MW-16-110	11/1/06	1310			X	X	X	X		3	pH-2
-2	MW-24BR-110	11/1/06	1510			X	X	X	X		3	pH-2
											6	

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) [signature]	Printed Name Jason Davis	Company/ Agency SEFS for CH2MHill	Date/ Time 11/1/06 1640
Signature (Received) [signature]	Printed Name Mongaarta	Company/ Agency T-L-I	Date/ Time 11/01/06 20:30
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:

06J011

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/2/06 PAGE 1 OF 1

CC

PROJECT NAME PG&E Topock GWM

PHONE (530) 339-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE)

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1	MW-32-020-110	10/2/06	1340	GW	X				X	X	2	
2	MW-32-035-110	10/2/06	1433	GW	X				X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matthew Ringler	CH2M Hill	Date/ 10/2/06 Time 1530
Signature (Received)	A. GALLEGOS	EMAX	Date/ 10/3/06 Time 1615
Signature (Relinquished) Nicholle Bleth	Nicholle Bleth	TLI	Date/ 10/3/06 Time 4:10
Signature (Received)			Date/ Time
Signature (Relinquished)	A. GALLEGOS	EMAX	Date/ 10/3/06 Time 1730
Signature (Received)	JON LUNA	EMAX	Date/ 10-3-06 Time 1730

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ 3.0°C

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

~~065032~~
065033

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/3/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shaver

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
MW-20-100-110	10/3/06	0935	Groundwater	X				X	X	2	1
MW-90-110	1	1200		~~X~~	X	X	X	X		2	2
MW-20-070-110	1	0925		~~X~~	X	X	X	X		2	3
MW-25-110	↓	0835	↓		X	X	X	X		2	4

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) Brad Shaver	Printed Name Brad Shaver	Company/ Agency CH2M HILL	Date/ Time 10/3/06 1130
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Michelle Blevins	Printed Name N.B.	Company/ Agency TLI	Date/ Time 10/4/06 4:00
Signature (Received)	Printed Name J. GALICIA	Company/ Agency EMAX	Date/ Time 10/4/06 1600
Signature (Relinquished)	Printed Name J. PACHECO	Company/ Agency EMAX	Date/ Time 10/4/06 1800
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

~~06J032~~
06J033

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/3/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shea

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
MW-26-110	10/3/06	1520	Groundwater	X				X	X	2	5
~~MW-27-110~~	"	1538	"								

Rec'd 10/03/06 s9b

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/Agency	Date/Time
Relinquished	Brad Shea	Brad Shedron	CH2M Hill	10/3/06 1552
Received				
Relinquished	Michelle Bleser	M.B.	TLI	10/4/06 4:00
Received		A. Gallegos	EMAX	10/4/06 1600
Relinquished		A. Gallegos	EMAX	10/4/06 1800
Received		A. Montano	EMAX	10/4/06 1800

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

~~06J032~~ 1604 Q

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/3/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Matt Ringier

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1604Q MW-27-020-110	10/3/06	855	GW	X				X	X	2	6

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	Matt Ringier	Matt Ringier	E2	10/3/06 1200
Received				
Relinquished	Michelle Bleuel	N.B.	TLI	10/4/06 4:00
Received		A Galicia	EMAX	10/4/06 1600
Relinquished		A THOMPSON	EMAX	10/5/06 1500
Received				

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

06J052

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) J Brewster

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
~~1~~	~~E-3-110~~	~~10/4/06~~	~~1130~~	~~SW~~ KLB								
~~2~~	~~TW-2D-110~~		~~1115~~	~~GW~~ KLB								
~~3~~	~~RR-3-110~~		~~1225~~	~~JSL~~ SW KLB								
~~4~~	~~Park Moabi-110~~		~~1350~~	~~GW~~ KLB								
~~5~~	~~NR~~			KLB								
1	R-27-110	10/4/06	1150	SW	X PL		X		X	X	2	
2	R-28-110	↓	1205	↓	X PL		X		X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M Hill	10/4/06 1530
Signature (Received)			
Signature (Relinquished) Rafael Davila	R. D	T. & T	10-5-06 17:10
Signature (Received)	JONUNA	EMAX	10/5/06 1710
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

T = 4.5 °C
T = 2.9 °C

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

[2006-GMP-110-Q3]

COC Number
TURNAROUND TIME 12 Days
DATE 10/4/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE [signature]

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B NO	Diss Metals (6010B) Field Filtered Title 22 NO	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
3	MW-34-055-110	10/4/06	1025	GW	~~X~~	~~X~~	X	X	X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) [signature]	Matt Ringier	E2	10/4/06 1200
Signature (Received) [signature]	~~Anthony Pacheco~~	~~Emax~~	~~10/5/06~~ ~~1705~~
Signature (Relinquished) Rafael Davis	R.D	T.L.I	10-5-06 17:10
Signature (Received) [signature]	JON LUNA	eMAX	10-5-06 1710
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ____ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:
T = 4.5°c
T = 2.9°C

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM +2 KLB

SAMPLERS (SIGNATURE) Brad Shearer

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
4	MW-34-50-110	10/4/06	1330	GW			X	X	X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	Brad Shearer	Brad Shearer	CH2M Hill	10/4/06 1600
Received				
Relinquished	Rafael Davila	R-D	T+T	10-5-06 17:10
Received		JON LUNA	emax	10-5-06 1710
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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/4/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Brad Shearer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
5 MW-12-110	10/4/06	0907	Groundwater		X		X			1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Shearer	Brad Shearer	CH2M Hill	10/4/06 1433
Signature (Received)			
Signature (Relinquished) Robert Davis	R.D	T.H.I	10-5-06 17:10
Signature (Received) JonLuna	JonLuna	emax	10-5-06 1710
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

06 J065

COC Number

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

[2006-GMP-110-Q3]

TURNAROUND TIME 12 Days

DATE _____ PAGE ___ OF ___

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE Brad Sheerer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1 MW-31-060-110	10/5/06	1535	GW	X		X		X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished) Brad Sheerer	Printed Name Brad Sheerer	Company/ Agency CH2MHill	Date/ Time 10/5/06 1804
Signature (Received)	Printed Name David S	Company/ Agency TLI	Date/ Time 10/5/06 20:50
Signature (Relinquished)	Printed Name MANGRUM	Company/ Agency TLI	Date/ Time 10/6/06 9:50
Signature (Received)	Printed Name A. GALICIA	Company/ Agency EMAX	Date/ Time 10/6/06 9:55
Signature (Relinquished)	Printed Name A. GALICIA	Company/ Agency EMAX	Date/ Time 10/6/06 1330
Signature (Received)	Printed Name alcantara	Company/ Agency emax	Date/ Time 10/6/06 1330

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ 2.2 °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

06J102

COC Number

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

[2006-GMP-110-Q3]

TURNAROUND TIME 12 Days

DATE 10/10/06 PAGE 1 OF

COMPANY	E2
PROJECT NAME	PG&E Topock GWM
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612
P.O. NUMBER	333234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1 mw-30-030-110	10/10/06	1400	GW	X		X		X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trefethen	CH2M Hill	10/10/06 1530
Signature (Received)			
Signature (Relinquished)	Nicholle Bleeth	TLI	10/11/06 1:28
Signature (Received)	Phil Hatcher	EMAX	10/11/06 330
Signature (Relinquished)	Phil Hatcher	EMAX	10/11/06 1400
Signature (Received)	INDRA PATEL	EMAX	10-11-06 1410

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS: T = 3.2°C

06J113

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/11/06 PAGE 1 OF

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1 MW-30-050-110	10/11/06	0915	GW	X		X		X	X	2	T= 2.2°C
2 MW-92-110	10/11/06	0920	GW	X				X	X	2	
3 MW-28-025-110	10/11/06	1245	GW	X				X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Trebbe	CH2M Hill	10/11/06 1530
Signature (Received)	Phil Hatten	EMAX	10.12.06 9.40
Signature (Relinquished)	Phil Hatten	EMAX	10.12.06 1400
Signature (Received)	INDRA PATEL	EMAX	10-12-06 1400
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

06J137

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/13/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) J Buenter

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1 MW-37D-110	10/13/06	1150	GW		X		X			1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	J Buenter	Jenny Bradtmueller	CH2MHill	10/13/06 1500
Received				
Relinquished	HANGARTNER	HANGARTNER	TLI	10/16/06 14:50
Received	Phil Hatche	Phil Hatche	EMAX	10/16/06 1450
Relinquished	Phil Hatche	Phil Hatche	EMAX	10/16/06 1600
Received	INDRA PATEL	INDRA PATEL	EMAX	10-16-06 1600

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ 3.4C °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

06J127

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

[2006 ~~RMP~~ -110]

6MP

COC Number

TURNAROUND TIME 12 Days

DATE 10/12/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) Matt Ringier

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	TSS (160.2)	Hardness (130.2)	Title 22 F. Filtered	7470A Hg F. Filtered	NUMBER OF CONTAINERS	COMMENTS
1	MW-10-110	10/12/06	1115	GW						X	X		
2	MW-11-110	10/12/06	1430	GW						X	X		

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Matt Ringier	Matt Ringier	E2	10/12/06 1540
Signature (Received)			
Signature (Relinquished) MONGARROW	MONGARROW	T.L.I	10/13/06 12:05
Signature (Received) Phil Hatcher	Phil Hatcher	EMAX	10/13/06 13:05
Signature (Relinquished) Phil Hatcher	Phil Hatcher	EMAX	10/13/06 1350
Signature (Received)	alcantara	emax	10/13/06 1350

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

T = 2.9°C

06J184

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

[2006-GMP-110-Q3]

COC Number

TURNAROUND TIME 12 Days

DATE 10/18/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 1

SAMPLERS (SIGNATURE) L M Elliott

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22 Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	NUMBER OF CONTAINERS	COMMENTS
1 MW-20-130-110	10/18/06	1410	groundwater			X	X	X	X	2	
										2	total

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	L M Elliott	Laura Elliott	CH2M Hill	10/18/06 1530
Received	L. Shaberman	L. Shaberman	TL	10/18/06
Relinquished	Phil Hatcher	Phil Hatcher	EMAX	10-19-06 945
Received	Phil Hatcher	Phil Hatcher	EMAX	10-19-06 1520
Relinquished				
Received		JIN LUNA	emax	10-19-06 1531

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS: T=3.2°C

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/2/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-32-020-110	10/2/06	1346	GW	X	1	
MW-32-035-110	10/2/06	1433	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matthew Ringler	CH2M Hill	10/2/06 1536
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/3/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE Brad Shaw

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-26-110	10/3/06	1520	Groundwater	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Brad Shaw	CH2M HILL	10/3/06 1552
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

SPECIAL REQUIREMENTS:

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999

TURNAROUND TIME 10 Days

DATE 10/3/06 PAGE 1 OF 1

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 2

SAMPLERS (SIGNATURE) Brad Sheare

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-20-100-110	10/3/06	0935	Groundwater	X	1	
MW-90-110	"	1200	"	X	1	
MW-20-070-110	"	1025	"	X	1	
MW-25-110	"	0835	"	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Sheare	Brad Sheare	CH2MHill	10/3/06 1130
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/3/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-27-020-110	10/3/06	855	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Ringler	Company/ Agency E2	Date/ Time 10/3/06 1200
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:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/4/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE) Matt Rigby

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-30-055-110	10/4/06	1025	GW	X	3	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Matt Rigby	E2	10/4/06 1200
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/4/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 23 KLS
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
R-27-110	10/4/06	1150	SW	X	1	
R-28-110	10/4/06	1205	SW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Kathryn Brown	CH2M Hill	10/4/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999

TURNAROUND TIME 10 Days

DATE 10/4/06 PAGE 1 OF 1

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 338234.GM.02.00 TEAM 2

SAMPLERS (SIGNATURE) Brad Shearer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-301-80-110	10/4/06	1330	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Brad Shearer	CH2M Hill	10/4/06 1600
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:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/5/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE Brad Shearer

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-31-060-110	10/5/06	1535	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) Brad Shearer	Brad Shearer	CH2M Hill	10/5/06 1607
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

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

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-410-03]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/10/06 PAGE 1 OF ___

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-30-030-110	10/10/06	1400	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Twelves	CH2M Hill	10/10/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics,
71 Zaca Ln, San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-118-QA]

COC Number 999

TURNAROUND TIME 10 Days

DATE 10/11/06 PAGE 1 OF

COMPANY E2

PROJECT NAME EG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 388234.GM.02.00 TEAM 2

SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (IC-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-30-825-118	10/11/06	0915	GW	X	1	
MW-32-118	10/11/06	0930	GW	X	1	
MW-35-825-118	10/11/06	1345	GW	X	1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Bob Thelan	CIACM Hill	10/10/06 1530
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

Zymax Forensics.
71 Zaca Ln. San Luis Obispo, CA 93401
phone: (805) 544-4696
Alan Jeffrey

CHAIN OF CUSTODY RECORD

[2006-GMP-110-Q3]

COC Number 999
TURNAROUND TIME 10 Days
DATE 10/18/06 PAGE 1 OF 1

COMPANY E2
PROJECT NAME PG&E Topock GWM
PHONE (530) 229-3303 FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 338234.GM.02.00 TEAM 2
SAMPLERS (SIGNATURE) L M Elliott

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Oxygen 18 & Deuterium (CF-IRMS)	NUMBER OF CONTAINERS	COMMENTS
MW-20-130-110	10/18/06	1410	groundwtr	X	1	
					1	total

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished) L M Elliott	Laura Elliott	CH2 M Hill	10/18/06 1530
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: