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July 15, 2009

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Colorado River Basin Region
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Subject: Board Order R7-2006-0060, WDID No. 7B 36 2033 001 - Interim Measures Compliance Monitoring Program Semiannual Groundwater Monitoring Report, First Half 2009, PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue and Mr. Perdue:

Enclosed is the *Semiannual Groundwater Monitoring Report, First Half 2009* for the Interim Measure Compliance Monitoring Program (CMP) at the Pacific Gas and Electric Company (PG&E) Topock Compressor Station. This monitoring report presents the results of the first and second quarter 2009 CMP groundwater monitoring events, and has been prepared in conformance with California Regional Water Quality Board (Water Board) Order No. R7-2006-0060, as well as with the Department of Toxic Substances Control (DTSC)'s July 15, 2005 letter approving the Compliance Monitoring Plan and June 9, 2006 letter modifying the reporting requirements.

On August 8, 2006, PG&E submitted a revised contingency plan flowchart for groundwater quality changes associated with the injection system. The contingency plan specifies the concentrations and values for hexavalent chromium (Cr[VI]), total chromium (Cr[T]), total dissolved solids (TDS), and pH to be used to determine if contingency plan actions were necessary based on sample results. The water quality objectives (WQO) concentrations used to trigger the contingency plan are as follows: Cr(VI) greater than 32.6 micrograms per liter (µg/L), Cr(T) greater than 28.0 µg/L, TDS greater than 10,800 milligrams per liter, and pH outside of the range of 6.2 to 9.2.

During the second quarter 2009 monitoring event, no samples exceeded WQO concentrations. Data collected during first quarter 2009 and associated contingency plan

actions were discussed in the *Compliance Monitoring Program Groundwater Monitoring Report, First Quarter 2009*, submitted April 15, 2009. The next CMP sampling event is scheduled to occur in July 2009.

Please contact me at (805) 546-5243 if you have any questions on the CMP.

Sincerely,

Yvonne Meeks
Topock Remediation Project Manager

Cc: Abdi Haile, Water Board
Christopher Guerre, DTSC

Enclosure

Final Report

Compliance Monitoring Program Semiannual Groundwater Monitoring Report, First Half 2009

Interim Measure No. 3
PG&E Topock Compressor Station
Needles, California
Board Order R7-2006-0060
WDID No. 7B 36 2033 001

Prepared for

California Department of Toxic Substances Control and the California Regional Water Quality Control Board, Colorado River Basin Region

On behalf of

Pacific Gas and Electric Company

July 15, 2009

CH2MHILL

155 Grand Avenue, Suite 1000
Oakland, CA 94612

Compliance Monitoring Program
Semiannual Groundwater Monitoring Report
First Half 2009

PG&E Topock Compressor Station
Needles, California
Board Order R7-2006-0060, WDID No. 7B 36 2033 001

Prepared for

California Department of Toxic Substance Control and the California Regional Water Quality Control Board, Colorado River Basin Region

On behalf of

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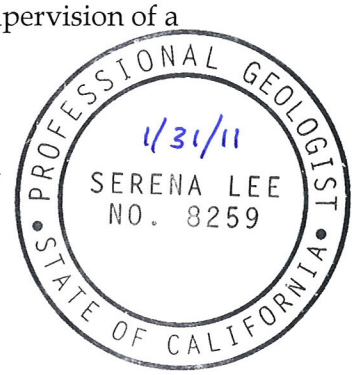
July 15, 2009

This report was prepared under the supervision of a California Professional Geologist

Serena Lee
Professional Geologist, P.G. #8259



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Acronyms and Abbreviations

µg/L	micrograms per liter
CMP	Compliance Monitoring Program
Cr(T)	total chromium
Cr(VI)	hexavalent chromium
CW	compliance well
DTSC	California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
IM	Interim Measure
IM No. 3	Interim Measure No. 3
IW	injection well
mg/L	milligrams per liter
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
OW	observation well
QAPP	Quality Assurance Project Plan
TDS	total dissolved solids
Water Board	California Regional Water Quality Control Board, Colorado River Basin Region
WDR	Waste Discharge Requirements
WQO	water quality objective

1.0 Introduction

Pacific Gas and Electric Company (PG&E) is implementing an Interim Measure (IM) to address chromium concentrations in groundwater at the Topock Compressor Station near Needles, California. The IM consists of groundwater extraction in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems are collectively referred to as Interim Measure No. 3 (IM No. 3). Currently, the IM No. 3 facilities include a groundwater extraction system, conveyance piping, a groundwater treatment plant, and an injection well field for the discharge of the treated groundwater. Figure 1 shows the location of the IM No. 3 extraction, conveyance, treatment, and injection facilities. (All figures are provided at the end of this report.)

On October 13, 2004, the California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) adopted Waste Discharge Requirements (WDR) Order No. R7-2004-0103. This WDR authorized PG&E to inject treated groundwater into wells located in the East Mesa area of the Topock site. This WDR was superseded on September 20, 2006 by WDR No. R7-2006-0060. Work described in this report was performed in accordance with the WDR No. R7-2006-0060.

The WDR specifies effluent limitations, prohibitions, specifications, and provisions for subsurface injection. Monitoring and Reporting Program (MRP) No. R7-2004-0103 specified the requirements for the Compliance Monitoring Program (CMP) to monitor the aquifer in the injection well area to ensure that the injection of treated groundwater is not causing an adverse effect on the aquifer water quality. As with the WDR, MRP No. R7-2004-0103 was superseded on September 20, 2006 by MRP No. R7-2006-0060. The *Groundwater Compliance Monitoring Plan for Interim Measures No. 3 Injection Area* (CH2M HILL, 2005a) was submitted to the Water Board and the California Department of Toxic Substances Control (DTSC) on June 17, 2005 (herein referred to as the Compliance Monitoring Plan). The Compliance Monitoring Plan and its addendum provide the objectives, proposed monitoring program, data evaluation methods, and reporting requirements for the CMP. In a letter dated June 9, 2006, DTSC modified the reporting requirements of the Compliance Monitoring Plan (DTSC, 2006). This report incorporates the additional requirements.

The injection system consists of two injection wells (IWs): IW-2 and IW-3. Operation of the treatment system was conditionally approved on July 15, 2005 (DTSC, 2005), and injection into IW-2 began on July 31, 2005. Table 1 is a summary of the history of injection for IM No. 3. (All tables are provided at the end of this report.)

Figure 2 shows the locations of the injection wells and the groundwater monitoring wells (observation wells and compliance wells) in the CMP. Table 2 is a summary of information on well construction and sampling methods for all wells in the CMP.

On January 22, 2007 (DTSC, 2007), DTSC approved a reduction of constituents analyzed during quarterly sampling of the CMP observation wells (details are provided in CH2M HILL, 2006). The Water Board concurred in a letter dated January 23, 2007

(Water Board, 2007a). Observation wells (OWs) are sampled for a limited suite of constituents during quarterly monitoring events. Semiannual CMP events still retain the original constituent suite for the OWs and compliance wells (CWs).

Under the CMP, as of April 2009, samples are collected from OWs and CWs (Figure 2) according to the following schedule:

- Nine observation wells located near the IM No. 3 injection well field are sampled quarterly for a limited suite of constituents.
- Eight compliance monitoring wells and nine observation wells located around the IM No. 3 injection well field are sampled semiannually for a full suite of constituents.

On October 16, 2007, the Water Board approved collecting pH measurements in the field rather than through laboratory analysis due to the new 15-minute holding time for laboratory measurements specified by United States Environmental Protection Agency (EPA) Method 150.1 (Water Board, 2007b). DTSC provided concurrence for the field pH change in an e-mail dated January 22, 2008 (DTSC, 2008a). This change became effective with the first quarter 2008 sampling event.

On November 13, 2007, the Water Board approved a modification to hexavalent chromium (Cr[VI]) analytical methods, which extended the holding time from 24 hours to 28 days (Water Board, 2007c). DTSC provided concurrence for the 28-day holding time for Cr(VI) analyses in an e-mail dated January 22, 2008 (DTSC, 2008a). The first quarter 2008 sampling event was the first event to incorporate the new 28-day holding time for analyzing Cr(VI).

Modifications to the CMP, including the sampling and reporting frequency and the field pH trigger range for the CMP contingency plan, were proposed to the Water Board and the DTSC by PG&E on July 3, 2008. On August 28, 2008, the Water Board approved these modifications as Revision 1 to the MRP (Water Board, 2008). As of December 12, 2008, the modification of the CMP contingency plan pH range to a field pH range of 6.2 to 9.2 was also approved by the DTSC (DTSC, 2008b). The remaining MRP modifications are awaiting DTSC approval.

For both quarterly and semiannual sampling events, laboratory analyses include dissolved total chromium (Cr[T]), Cr(VI), metals, specific conductance, total dissolved solids (TDS), turbidity, and major inorganic cations and anions. For quarterly events, the metals, cations, and anions list is reduced. Groundwater elevation data and field water quality data—including specific conductance, temperature, pH, oxidation-reduction potential, dissolved oxygen, turbidity and salinity—are also measured during each monitoring event (CH2M HILL, 2005a).

This report presents the results of the first half 2009 (first and second quarter) CMP groundwater monitoring events.

2.0 First Half 2009 Activities

This section provides a summary of the monitoring and sampling activities completed during the first and second quarter 2009. The first quarter 2009 monitoring event was conducted on January 6, 2009 and consisted of the following:

- Nine observation monitoring wells were sampled for water quality analyses.
- Groundwater elevations and field water quality data were collected prior to sampling.
- One duplicate sample was collected at well OW-2S to assess field sampling and analytical quality control.

The second quarter 2009 event conducted from April 7-9, 2009 and consisted of:

- Nine observation monitoring wells were sampled for water quality analyses.
- Eight compliance monitoring wells were sampled for water quality analyses.
- Groundwater elevations and field water quality data were collected prior to sampling.
- Two duplicate samples were collected at well CW-3M and OW-1S to assess field sampling and analytical quality control.

Continuous groundwater elevation data were collected using pressure transducers/data loggers at each of the 17 CMP wells and were downloaded monthly during the reporting period.

The sampling methods, procedures, field documentation of the CMP sampling, water level measurements, and field water quality monitoring were performed in accordance with the *Sampling, Analysis, and Field Procedures Manual* (CH2M HILL, 2005b).

CMP groundwater samples were analyzed by Truesdail Laboratories, Inc. in Tustin, California and EMAX Laboratories, Inc. in Torrance, California, both California-certified analytical laboratories. Analytical methods, sample volumes and containers, sample preservation, and quality control sample requirements were in accordance with the *Sampling, Analysis, and Field Procedures Manual* (CH2M HILL, 2005b). Data validation and management were conducted in accordance with the *Quality Assurance Project Plan* (QAPP) provided as Appendix D of the *Sampling, Analysis, and Field Procedures Manual*.

3.0 First Half 2009 Results

This section is a summary of the results of the CMP groundwater sampling conducted during the first half 2009. Figure 2 presents the locations of the CMP groundwater wells.

The data presented include results for Cr(VI), Cr(T), specific conductance, metals, TDS, turbidity, and major inorganic cations and anions. Laboratory data quality review, water level measurements, and water quality field parameter data are also presented in this section. The laboratory reports and field data sheets for the second quarter 2009 monitoring event are presented in Appendices A and B, respectively. Laboratory reports for the first quarter 2009 were previously reported in the prior monitoring report (CH2M HILL, 2009a).

3.1 Analytical Results

Nine observation wells were sampled during the first quarter 2009 sampling event and seventeen compliance and observation wells were sampled during the second quarter 2009 sampling event. Analytical results for Cr(VI) and Cr(T), other metals, and general chemistry parameters are presented in Tables 3, 4 and 5 and are discussed below. Interim action levels/water quality objectives (WQOs) were updated in the *Addendum to the Compliance Monitoring Plan*, which was submitted to DTSC and the Water Board on December 13, 2005 (CH2M HILL, 2005c). On August 8, 2006, PG&E submitted a revised contingency plan flowchart for groundwater quality changes associated with the injection system. The contingency plan specifies the concentrations and values for Cr(VI), Cr(T), TDS, and pH to be used to determine if contingency plan actions were necessary based on sample results.

3.1.1 Hexavalent and Total Chromium

Table 3 presents the Cr(VI) and Cr(T) results for groundwater in the shallow, middle, and deep wells for the first half 2009 CMP sampling events. For shallow wells, the maximum detected Cr(VI) concentration was 32.2 micrograms per liter (µg/L) in well OW-2S on January 6, 2009. For the middle wells, the maximum detected Cr(VI) concentration was 17.6 µg/L in well CW-4M on April 7, 2009. For the deep wells, the maximum detected Cr(VI) concentration was 1.76 µg/L in well OW-5D on April 7, 2009.

During the first half 2009 sampling events, none of the samples exceeded the WQO of 32.6 µg/L for Cr(VI).

For shallow wells, the maximum detected Cr(T) concentration was 33.2 µg/L in well OW-2S on January 6, 2009. For the middle wells, the maximum detected Cr(T) concentration was 15.8 µg/L in well CW-4M on April 7, 2009. For the deep wells, all of the Cr(T) concentrations were below the reporting limit of 1.0 µg/L.

During the first half 2009 sampling events, samples from one well exceeded the WQO of 28 µg/L for Cr(T). The January 6, 2009 primary and duplicate samples from well OW-2S had concentrations of 33.2 µg/L and 32.8 µg/L, respectively. For these exceedances, the results are not considered to be the result of injection of treated groundwater as the average effluent concentration of Cr(T) from the IM No. 3 treatment plant is normally non-detect with a

reporting limit of 0.2 µg/L (CH2M HILL, 2009b). Cr(T) and Cr(VI) concentrations at OW-2S have been consistently above the WQOs since November 2005. This exceedance of Cr(T) is thus considered reflective of the natural variance in background water quality.

3.1.2 Other Metals and General Chemistry

Table 4 presents the other metals and general chemistry results for the CMP groundwater wells sampled during the first half 2009. Since the first quarter 2007, the observation wells have been sampled for a limited suite of constituents during quarterly monitoring events. Metals and cations detected in the first half 2009 samplings included arsenic, barium, beryllium, boron, calcium, copper, iron, magnesium, molybdenum, potassium, silver, sodium, total iron, vanadium, and zinc. In general, concentrations of metals and cations detected during the first half 2009 sampling events are similar to those detected in previous sampling events.

Table 5 presents other inorganic analyte results from the CMP wells including chloride, fluoride, sulfate, and nitrate/nitrite as nitrogen. During the first half 2009, the sampling results from all wells were within the WQOs for TDS (10,800 milligrams per liter [mg/L]) and pH (6.2 to 9.2). Sampling results for TDS varied from 904 mg/L in well OW-2S to 5,870 mg/L in well CW-4D. Field pH varied from 7.38 in wells OW-5M to 8.17 in well OW-2S.

3.2 Analytical Data Quality Review

The laboratory analytical data generated from the second quarter 2009 CMP monitoring event were independently reviewed by project chemists to assess data quality and identify deviations from analytical requirements. The quality assurance and quality control requirements are outlined in the QAPP for the PG&E Topock Program, which is Appendix D of the *Sampling, Analysis, and Field Procedures Manual, Revision 1* (CH2M HILL, 2005b). A detailed discussion of data quality for CMP sampling data is presented in the data validation reports, which are kept in the project file and are available upon request.

3.2.1 Matrix Interference

For the first quarter 2009 sampling event, matrix interference was encountered in two groundwater samples that affected the sensitivity for Cr(VI) when using EPA Method 218.6. The Cr(VI) sample results from OW-1D and OW-2D reflected an adjusted reporting limit of 1 µg/L as a result of the serial dilution that was required to overcome the matrix interference and provide an acceptable matrix spike recovery. No qualifier flags were applied.

For the second quarter 2009 sampling event, matrix interference was encountered in two groundwater samples that affected the sensitivity for Cr(VI) when using EPA Method E218.6. The Cr(VI) sample results from CW-1D and OW-2D reflected an adjusted reporting limit of 1 µg/L as a result of the serial dilution that was required to overcome the matrix interference and provide an acceptable matrix spike recovery. No qualifier flags were applied.

3.2.2 Matrix Spike Samples

For the first and second quarter 2009 sampling events, matrix spike acceptance criteria were met.

3.2.3 Quantitation and Sensitivity

For the first and second quarter 2009 sampling events, with the exceptions of the matrix interference issues discussed in Section 3.2.1, method and analyte combinations met the project reporting limit objectives.

3.2.4 Holding Time Data Qualification

For the first quarter 2009 sampling event, method holding time requirements were met.

For the second quarter 2009 sampling event, method holding time requirements were met with one exception. Five samples analyzed for turbidity (SM2130B) were analyzed outside the recommended holding time by one day. The detected sample results were qualified as estimated and flagged "J".

3.2.5 Field Duplicates

For the first and second quarter 2009 sampling events, field duplicate acceptance criteria were met.

3.2.6 Method Blanks

For the first and second quarter 2009 sampling events, method blank acceptance criteria were met.

3.2.7 Equipment Blanks

For the first and second quarter 2009 sampling events, equipment blank acceptance criteria were met.

3.2.8 Laboratory Duplicates

For the first and second quarter 2009 sampling events, laboratory duplicate acceptance criteria for the methods were met.

3.2.9 Calibration

For the first and second quarter 2009 sampling events, initial and continuing calibrations were performed as required by the methods. Calibration criteria were met.

3.2.10 Conclusion

For the first and second quarter 2009 sampling events, the completeness objectives were met for the method and analyte combinations. The analyses and data quality met the QAPP and laboratory method quality control criteria except as noted above. Overall, the analytical data are considered acceptable for the purpose of the CMP.

3.3 Influence of Treated Water

3.3.1 Post-injection Versus Pre-injection

Injection of treated water began on July 31, 2005. Under WDR No. R7-2006-0060 for the IM No. 3 groundwater treatment system, PG&E is required to submit WDR monitoring reports on the operation of the system. These reports contain the analytical results of treated water effluent sampling and, as such, the reports are useful in determining the baseline water quality of the treated water being injected into the IM No. 3 injection well field. Table 6 provides selected analytical results from three of the monthly reports: August 29, 2005, March 18, 2006, and April 1, 2009. While there are differences among some parameters in these samples, a number of parameters show relatively consistent concentrations in the effluent over time. Analytes that are relatively consistent over the injection time period include Cr(VI), Cr(T), fluoride, molybdenum, nitrate/nitrite as nitrogen, sulfate, and TDS. These seven constituents provide a characterization of the effluent that does not appear to vary greatly over time and can serve as a basis for determining if a groundwater monitoring well is being affected by injection. In general terms, treated water has the following characteristics (based on review of August 2005 through April 2009 effluent characteristics):

- Cr(VI): typically non-detect (0.2 µg/L)
- Cr(T): typically non-detect (1.0 µg/L)
- Fluoride: approximately 2 mg/L
- Molybdenum: approximately 20 µg/L
- Nitrate/nitrite as nitrogen: approximately 3.0 mg/L
- Sulfate: approximately 500 mg/L
- TDS: approximately 4,000 mg/L

These treated water quality characteristics are meant to serve as a general guideline and not as a statistically representative sampling of the treated water quality over time.

Table 6 also lists the results of baseline sampling for the observation wells and compliance wells. A full set of nine OW groundwater samples was collected on July 27 and 28, 2005, and a full set of eight CW groundwater samples was collected on September 15, 2005. These samples are considered representative of conditions unaffected by injection and serve to characterize the pre-injection water quality. In comparing these sampling results to the treated injection water sampling results, there are some similarities in the constituent concentrations. For example, most of the pre-injection OW or CW deep well samples (OW-1D, OW-2D, OW-5D, CW-3D, and CW-4D) contain no detectable Cr(VI) or Cr(T), which is similar to the treated injection water. Most of the well samples show concentrations similar to the treated water for two or three constituents but observable differences in concentration from the treated water for the remaining four or five. By considering the entire suite of seven analytes and focusing on those parameters that show differences, it is relatively easy to distinguish between the pre-injection water quality at the monitoring wells and the treated water effluent quality.

Table 7 presents a comparison between the treated water quality and the results from the most recent sampling events (the first and second quarter 2009 sampling events). These samples were collected after approximately 45 months of injection. While the pre-injection

OW and CW sample results were significantly different from the treated water quality, a number of the first and second quarter 2009 sample results now show a marked similarity to the treated water results. The following wells display the general characteristics of treated water: OW-1M, OW-1D, OW-2M, OW-2D, OW-5M, OW-5D, CW-1M, CW-1D, CW-2D, CW-3D, and CW-4D. These wells are locations and depths where the treated water injection front has largely replaced the local pre-injection groundwater. To date, all shallow observations wells (wells OW-1S, OW-2S, and OW-5S) and the remaining compliance wells (CW-2M, CW-3M, and CW-4M) show no water quality effects due to injection of treated water, indicating that injected water has not yet reached these depths and locations.

3.3.2 Water Quality Hydrographs

Trend data can be used to determine when a rapid change has occurred between sampling events, such as the arrival of the injection front. It can also be used to look at more gradual changes that occur over several sampling events, such as seasonal effects or the interaction of treated water with local groundwater and host aquifer material. Eleven analytes were selected for time-series analysis; these analytes are considered to be most representative of the IM No. 3 injection well field area and have sufficient detections to make time-series analysis useful. The analytes include chloride, Cr(T), fluoride, Cr(VI), molybdenum, nitrate/nitrite as nitrogen, pH, sodium, sulfate, TDS, and vanadium. Water quality hydrographs (time-series plots) of these 11 analytes in each observation well during the quarter within the IM No. 3 injection well field are presented in Figures 3A through 3E.

Observation well water quality hydrographs are presented in Figures 3A through 3C. These hydrographs show the same overall patterns: wells that are identified as affected by treated water injection show a shift in water quality for characteristic parameters, while those identified as being unaffected by injection show no net trends. The water quality change brought on by the arrival of the treated water injection front can be either gradual (OW-5M) or step-wise (OW-2M), with most affected wells showing a pattern of change somewhere between the two. Based on the variability in response, it is inferred that the movement of treated water is non-uniform laterally between wells. This variability in lateral movement can be inferred from differences in the water quality hydrographs in both the mid-depth and deep wells. The OW shallow-depth wells (OW-1S, OW-2S, and OW-5S) show little water quality variation over time and generally have no net trends over time. TDS, sodium, chloride, vanadium, and molybdenum are particularly consistent with baseline pre-injection concentrations and show that the local groundwater quality at shallow depths is not being affected by injection of treated water or outside water sources.

Compliance well water quality hydrographs are presented in Figures 3D through 3E. Well CW-1D, CW-2D, and CW-3D show a decreasing trend in TDS and chloride. Wells CW-1M and CW-2M show decreasing trends in Cr(VI) and Cr(T) and well CW-4M shows a decreasing trend in Cr(T). These changes are attributed to the arrival of treated injection water.

3.4 Water Level Measurements

Table 8 presents the manual water level measurements and groundwater elevations for the first half 2009 monitoring events.

As a requirement of the conditional approval by DTSC (DTSC, 2005), water level measurements were used to produce hydrographs for each well cluster. Figures 4A through 4G present hydrographs that illustrate groundwater elevation trends and vertical hydraulic gradients observed over the first half 2009 reporting period at the observation and compliance monitoring wells.

Average groundwater elevation maps for shallow, middle, and deep wells are also provided as Figures 5A through 5C. Water levels used to produce the monthly average groundwater elevation contour plots were taken from a selected number of days in which the levels remained reasonably constant. These dates are noted on each figure.

3.4.1 Groundwater Gradient Characteristics

The monitoring wells in the middle- and deep-zone categories are screened over a wide elevation range (74 feet in the middle zone wells and 59 feet in the deep wells). Because there are natural vertical gradients as well as vertical gradients induced by injection, the relationships of groundwater elevations for wells in each category will reflect a mixture of vertical and horizontal gradients in groundwater elevation. Therefore, the groundwater contours on Figures 5B and 5C should be viewed as approximate.

The injection well field is located in the East Mesa area of the Topock site (Figure 2). Overall sitewide water level contour maps for shallow wells are prepared annually, with flow consistently being shown to move to the east, northeast across the uplands portions of the site (CH2M HILL, 2009c).

The effects of injection in the IM No. 3 injection well field are superimposed on the more regional Topock site flow system and, as expected, a groundwater mound can be seen around the injection wells. This mound is centered around the active injection wells IW-3 and IW-2. The potentiometric surfaces in prior CMP reports mapped the growth of the groundwater mound over time and show that, after 45 months of injection, the mound has increased and then stabilized in height at several tenths of a foot in elevation above the surrounding water level elevations. Figures 5B and 5C present groundwater elevation contours for the average groundwater elevation of the mound within the middle and deep wells using April 1 - 30, 2009 averages. As expected with a mound, the potentiometric surface of the deep wells is slightly broader, while the potentiometric surface of the middle wells is more localized to the vicinity of the injection wells. The mound is elliptical in shape, with the major axis running in a southwest to northeast direction. The lower gradients (broader contours) in the direction of the major axis are an indication that the aquifer permeabilities are greater in this direction, indicating that there may be a preferred direction to flow in this area.

The vertical gradient in the IM No. 3 injection well field area is directed upward at all of the CW and OW well clusters and also upward between each of the depth intervals in those same well clusters. Table 9 presents the vertical gradient data calculated using the April 1 - 30, 2009 average groundwater levels. The magnitude of the vertical gradients is similar between clusters and between the depth intervals, indicating that the vertical gradient is of the same order of magnitude throughout the injection area. A component of the vertical gradients calculated in the vicinity of the IM No. 3 injection well field is undoubtedly related to the injection of treated water in the lower portions of the aquifer. The observed

groundwater gradients in the IM No. 3 injection well field are consistent with expected regional groundwater flow within the southern Mohave Valley.

3.5 Field Parameter Data

A field water quality instrument and flow-through cell were used to measure water quality parameters during well purging and groundwater sampling. The measured field parameters included specific conductance, temperature, pH, oxidation-reduction potential, dissolved oxygen, turbidity, and salinity. Table 10 is a summary of the field water quality data measured during the first and second quarter 2009 monitoring events. Field data sheets for the second quarter 2009 event are presented in Appendix B.

3.6 WDR Monitoring Requirements

Table 11 identifies the laboratory that performed each analysis and lists the following information as required by the WDR for the first half 2009 monitoring events:

- Sample location
- Sample identification number
- Sampler name
- Sample date
- Sample time
- Laboratory performing analysis
- Analysis method
- Parameter
- Analysis date
- Laboratory technician
- Result unit
- Sample result
- Reporting limit
- Method detection limit

4.0 Status of Monitoring Activities

4.1 Quarterly Monitoring

The next quarterly monitoring event will occur in July during the third quarter of 2009. This event will include the sampling and analysis scope that was presented in the Compliance Monitoring Plan (CH2M HILL, 2005a, c) and subsequent approved scope revisions (DTSC, 2007, 2008a, b; Water Board, 2007a-c, 2008). The groundwater monitoring report for this quarterly CMP monitoring event will be submitted by October 15, 2009.

4.2 Semiannual Monitoring

The next semiannual monitoring event will occur in October during the fourth quarter of 2009. This CMP monitoring event, which encompasses both the OW and CW wells, will include the sampling and analysis scope presented in the Compliance Monitoring Plan (CH2M HILL, 2005a, c) and subsequent approved scope revisions (DTSC, 2007, 2008a, b; Water Board, 2007a-b, 2008). The groundwater monitoring report for this semiannual CMP monitoring event will be submitted by January 15, 2010.

5.0 References

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6.0 Certification

PG&E submitted a signature delegation letter to the Water Board on September 20, 2006. The letter delegated PG&E signature authority to Mr. Curt Russell and Ms. Yvonne Meeks for correspondence regarding Board Order R7-2006-0060.

Certification Statement:

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Signature: 

Name: Yvonne J. Meeks

Company: Pacific Gas and Electric Company

Title: Topock Project Manager

Date: July 15, 2009

Tables

TABLE 1
Operational Status of Interim Measures No. 3 Injection Wells From Inception of Injection Through First Quarter 2009
PG&E Topock Compliance Monitoring Program

Time Period	Injection Status
July 31, 2005 to Fourth Quarter 2005	Injection occurred at IW-2.
First Quarter 2006	Injection occurred primarily at IW-2 except during periods of operational testing, when injection was divided equally between IW-2 and IW-3.
Second Quarter 2006	Injection occurred at IW-2.
Third Quarter 2006	In August 2006, IW-2 went offline for routine maintenance, and injection commenced at IW-3.
Fourth Quarter 2006	Injection occurred at IW-3, except during routine maintenance.
First Quarter 2007	Injection occurred at IW-3 and transitioned over to IW-2 on March 8.
Second Quarter 2007	Injection occurred at IW-3 from April 3 through June 20. Injection switched to IW-2 on June 20 and continued through July 20, 2007.
Third Quarter 2007	Injection occurred at IW-3 after July 20. Injection occurred at IW-2 on August 30 for an injection test and then returned to IW-3 after August 31.
Fourth Quarter 2007	Injection occurred at IW-3 and then switched to IW-2 on September 25 for routine maintenance. Injection returned to IW-3 after October 9.
First Quarter 2008	Injection occurred at IW-3 only. From February 5 through February 13, well maintenance activities were conducted at IW-2.
Second Quarter 2008	Injection occurred at IW-3 only. IM-3 system offline from April 21 through April 28 due to routine maintenance. Backwashing occurred at IW-3 on April 9, May 7, May 15, May 22, June 3, and June 4, 2008.
Third Quarter 2008	Injection occurred primarily at IW-3. Injection also occurred at IW-2 for short period on July 25 and from August 12 – August 31, 2008. Backwashing events occurred at IW-3 on June 17, June 27, July 9, July 15, July 17, July 18, August 12, August 13, September 2, and September 3, 2008. Backwashing events occurred at IW-2 on September 9 - September 11, 2008.
Fourth Quarter 2008	Injection occurred at IW-3 and then switched to IW-2 on September 23. Injection returned to IW-3 on October 7 and switched back to IW-2 on October 21. Injection primarily occurred at IW-2 until November 11 when it switched to IW-3 until December 3, 2008. Injection continued at IW-2 until December 16, 2008 and occurred concurrently and continued at IW-3 on December 11, 2008.
First Quarter 2009	Injection switched to IW-2 on December 30, 2008. On January 13, 2009 injection transitioned to IW-3. Backwashing events occurred periodically during the periods when each injection well was offline. Routine and scheduled maintenance occurred 12/18/08 and 1/21/09 at which time both wells were offline.
Second Quarter 2009	Injection continued at IW-3 until April 20, 2009. Injection ceased from April 20, 2009 to April 27, 2009 due to routine maintenance after which injection continued at IW-3 until May 26, 2009 when it transitioned to IW-2. Injection continued at IW-2 until June 9, 2009 when it switched to IW-3. Injection returned to IW-2 on June 24, 2009.

TABLE 2
Well Construction and Sampling Summary for Groundwater Samples, Second Quarter 2009
PG&E Topock Compliance Monitoring Program

Well ID	Site Area	Measuring Point Elevation (ft AMSL)	Screen Interval (ft bgs)	Well Casing (inches)	Well Depth (ft btoc)	Depth to Water (ft btoc)	Sampling System	Typical Purge Rate (gpm)	Typical Purge Volume (gallons)	Pump Depth (ft bgs)	Transducer Status	Remarks
IM Compliance Wells												
CW-01M	East Mesa	566.16	140 - 190	2 (PVC)	190.0	109.0	Temp Redi-Flo AR	2	42	124	Active	
CW-01D	East Mesa	566.57	250 - 300	2 (PVC)	300.2	108.9	Temp Redi-Flo AR	3	100	125	Active	
CW-02M	East Mesa	549.37	152 - 202	2 (PVC)	202.0	92.2	Temp Redi-Flo AR	2	56	108	Active	
CW-02D	East Mesa	549.64	285 - 335	2 (PVC)	355.0	91.9	Temp Redi-Flo AR	3	135	108	Active	
CW-03M	East Mesa	534.21	172 - 222	2 (PVC)	222.0	77.0	Temp Redi-Flo AR	2	75	93	Active	
CW-03D	East Mesa	534.27	270 - 320	2 (PVC)	340.0	76.4	Temp Redi-Flo AR	3	135	93	Active	
CW-04M	East Mesa	518.66	119.5 - 169.8	2 (PVC)	169.8	60.9	Temp Redi-Flo AR	2	56	77	Active	
CW-04D	East Mesa	518.68	233 - 283	2 (PVC)	303.0	60.8	Temp Redi-Flo AR	3	126	77	Active	
IM Observation Wells												
OW-01S	East Mesa	550.21	83.5 - 113.5	2 (PVC)	113.5	92.8	Temp Redi-Flo AR	1	12	109	Active	
OW-01M	East Mesa	550.45	165 - 185	2 (PVC)	185.8	92.9	Temp Redi-Flo AR	2	48	109	Active	
OW-01D	East Mesa	550.48	257 - 277	2 (PVC)	277.0	92.5	Temp Redi-Flo AR	3	94	108	Active	
OW-02S	East Mesa	548.88	71 - 101	2 (PVC)	121.0	91.6	Temp Redi-Flo AR	2	16	108	Active	
OW-02M	East Mesa	548.59	190 - 210	2 (PVC)	210.3	91.2	Temp Redi-Flo AR	3	61	107	Active	
OW-02D	East Mesa	549.15	310 - 330	2 (PVC)	340.0	91.2	Temp Redi-Flo AR	3	127	107	Active	
OW-05S	East Mesa	551.83	70 - 110	2 (PVC)	110.3	94.3	Temp Redi-Flo AR	1	8	110	Active	
OW-05M	East Mesa	551.81	210 - 250	2 (PVC)	250.3	93.7	Temp Redi-Flo AR	3	81	110	Active	
OW-05D	East Mesa	552.33	300 - 320	2 (PVC)	350.0	94.4	Temp Redi-Flo AR	3	132	110	Active	

Notes:

AMSL	above mean sea level
BGS	below ground surface
BTOC	below top of polyvinyl chloride (PVC) casing
Redi-Flo AR	adjustable-rate electric submersible pump
Temp	temporary
gpm	gallons per minute

Depth to water shown is the most recently measured depth to water.
All wells were purged and sampled using 3 well-volume method.

TABLE 3
Chromium Results for Groundwater Samples, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

		Method:	E218.6	E200.8
Location ID	**Sample Date**		**Hexavalent Chromium (µg/L)**	**Chromium (total) (µg/L)**
CW-01M	4/8/2009		1.56	ND (1.0)
CW-01D	4/8/2009		ND (1.0)	ND (1.0)
CW-02M	4/7/2009		7.80	6.99
CW-02D	4/7/2009		0.20	ND (1.0)
CW-03M	4/7/2009		11.6	10.6
CW-03M	4/7/2009	(FD)	11.4	10.5
CW-03D	4/7/2009		0.43	ND (1.0)
CW-04M	4/7/2009		17.6	15.8
CW-04D	4/7/2009		1.76	ND (1.0)
OW-01S	1/6/2009		19.7	19.3
OW-01S	4/8/2009		18.1	22.1
OW-01S	4/8/2009	(FD)	18.2	21.0
OW-01M	1/6/2009		0.79	1.04
OW-01M	4/8/2009		1.23	1.50
OW-01D	1/6/2009		ND (1.0)	ND (1.0)
OW-01D	4/8/2009		0.63	ND (1.0)
OW-02S	1/6/2009		31.6	33.2
OW-02S	1/6/2009	(FD)	32.2	32.8
OW-02S	4/8/2009		30.5	27.6
OW-02M	1/6/2009		1.46	1.41
OW-02M	4/8/2009		1.35	ND (1.0)
OW-02D	1/6/2009		ND (1.0)	ND (1.0)
OW-02D	4/8/2009		ND (1.0)	ND (1.0)
OW-05S	1/6/2009		25.8	24.3
OW-05S	4/8/2009		23.4	21.1
OW-05M	1/6/2009		0.77	1.08
OW-05M	4/9/2009		1.48	1.78
OW-05D	1/6/2009		0.49	ND (1.0)
OW-05D	4/9/2009		0.80	ND (1.0)

Notes:

FD field duplicate
ND parameter not detected at the listed reporting limit
µg/L micrograms per liter

Hexavalent Chromium and Chromium (total) are field filtered.

TABLE 4
Metal and Cation Results for Groundwater Samples, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Boron	Calcium	Iron [1]	Iron [2]	Potassium	Magnesium	Sodium
Method:			Dissolved E200.7, E200.8 and E245.1 (Mercury)																								
			µg/L																		mg/L						
CW-01M	4/8/2009		ND (50)	ND (10)	1.59	67.0	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.21	130	0.0205	ND (0.02)	16.1	10.7	1260
CW-01D	4/8/2009		ND (50)	ND (10)	1.60	18.6	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	5.35	ND (1.0)	ND (5.0)	ND (10)	1.12	129	ND (0.02)	ND (0.02)	14.4	11.1	1290
CW-02M	4/7/2009		ND (50)	ND (10)	2.71	61.4	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	26.0	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.04	132	0.0448	0.0369	15.6	9.21	1300
CW-02D	4/7/2009		ND (50)	ND (10)	4.55	ND (10)	ND (1.0)	ND (3.0)	ND (5.0)	10.4	ND (10)	ND (10)	ND (0.2)	16.3	ND (10)	ND (10)	ND (5.0)	ND (1.0)	6.27	14.8	1.43	70.6	0.0292	ND (0.02)	15.0	3.47	1400
CW-03M	4/7/2009		ND (50)	ND (10)	1.21	49.6	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	19.0	ND (10)	ND (10)	8.06	ND (1.0)	ND (5.0)	ND (10)	1.04	203	ND (0.02)	ND (0.02)	20.4	16.7	1610
CW-03M	4/7/2009	FD	ND (50)	ND (10)	1.04	48.4	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	16.3	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.08	204	ND (0.02)	ND (0.02)	21.4	18.0	1500
CW-03D	4/7/2009		ND (50)	ND (10)	1.89	ND (10)	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	52.0	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.43	63.1	ND (0.02)	ND (0.02)	15.0	4.70	1380
CW-04M	4/7/2009		ND (50)	ND (10)	2.34	75.2	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	0.811	151	ND (0.02)	ND (0.02)	15.4	12.4	1120
CW-04D	4/7/2009		ND (50)	ND (10)	3.88	22.1	7.24	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	23.7	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.40	147	ND (0.02)	ND (0.02)	17.4	8.28	1630
OW-01S	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	ND (10)	---	---	---	---	---	---	0.321	---	---	---	---	---	---
OW-01S	4/8/2009		ND (50)	ND (10)	1.00	96.4	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	0.342	145	0.0968	ND (0.02)	12.2	27.6	461
OW-01S	4/8/2009	FD	ND (50)	ND (10)	ND (1.0)	102	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	0.384	142	0.0896	ND (0.02)	12.5	28.0	459
OW-01M	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	ND (10)	---	---	---	---	---	---	0.989	---	---	---	---	---	---
OW-01M	4/8/2009		ND (50)	ND (10)	1.62	84.0	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	15.8	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.04	176	0.0389	ND (0.02)	19.6	18.9	1320
OW-01D	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	12.1	---	---	---	---	---	---	1.02	---	---	---	---	---	---
OW-01D	4/8/2009		ND (50)	ND (10)	1.99	33.5	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	16.3	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.10	146	ND (0.02)	ND (0.02)	16.0	11.6	1450
OW-02S	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	38.6	---	---	---	---	---	---	0.694	---	---	---	---	---	---
OW-02S	1/6/2009	FD	---	---	---	---	---	---	---	---	---	---	---	37.5	---	---	---	---	---	---	0.656	---	---	---	---	---	---
OW-02S	4/8/2009		ND (50)	ND (10)	2.39	40.0	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	28.3	ND (10)	ND (10)	ND (5.0)	ND (1.0)	6.01	ND (10)	0.675	28.6	0.0449	ND (0.02)	6.20	4.44	300
OW-02M	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	13.0	---	---	---	---	---	---	0.989	---	---	---	---	---	---
OW-02M	4/8/2009		ND (50)	ND (10)	ND (1.0)	57.4	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	14.7	1.09	176	ND (0.02)	ND (0.02)	19.3	20.2	1180
OW-02D	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	12.9	---	---	---	---	---	---	1.00	---	---	---	---	---	---
OW-02D	4/8/2009		ND (50)	ND (10)	1.95	19.2	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.13	178	ND (0.02)	ND (0.02)	17.8	24.1	1200
OW-05S	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	29.6	---	---	---	---	---	---	0.423	---	---	---	---	---	---
OW-05S	4/8/2009		ND (50)	ND (10)	1.22	68.8	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	25.7	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	0.536	76.5	0.116	ND (0.02)	9.20	13.1	332
OW-05M	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	15.4	---	---	---	---	---	---	0.995	---	---	---	---	---	---
OW-05M	4/9/2009		ND (50)	ND (10)	ND (1.0)	45.8	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	14.0	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.07	177	ND (0.02)	ND (0.02)	18.7	18.9	1340
OW-05D	1/6/2009		---	---	---	---	---	---	---	---	---	---	---	16.0	---	---	---	---	---	---	0.963	---	---	---	---	---	---
OW-05D	4/9/2009		ND (50)	ND (10)	1.22	21.2	ND (1.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (10)	ND (10)	ND (0.2)	11.3	ND (10)	ND (10)	ND (5.0)	ND (1.0)	ND (5.0)	ND (10)	1.13	190	ND (0.02)	ND (0.02)	19.7	26.2	1390

NOTES:
FD field duplicate
ND parameter not detected at the listed reporting limit
mg/L milligrams per liter
µg/L micrograms per liter
--- data not collected or available

1 Total Iron
2 Dissolved Iron

TABLE 5
Other Inorganics Results for Groundwater Samples, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

	Method:	E120.1		SM2540C	SM2130B	E300.0	E300.0	E300.0	SM4500NO3E	SM2320B	SM4500NH3D
Location ID	**Sample Date**	**Specific Conductance (µmhos/cm)**	**Field pH**	**Total Dissolved Solids (mg/L)**	**Turbidity (NTU)**	**Chloride (mg/L)**	**Fluoride (mg/L)**	**Sulfate (mg/L)**	**Nitrate/Nitrite as Nitrogen (mg/L)**	**Alkalinity, total as CaCo3 (mg/L)**	**Ammonia as Nitrogen (mg/L)**
CW-01M	4/8/2009	6970	7.75	4180	0.135	2090	2.14	489	2.79	70.0	ND (0.5)
CW-01D	4/8/2009	6810	7.74	3860	ND (0.1)	2110	1.89	488	2.95	72.0	ND (0.5)
CW-02M	4/7/2009	6710	7.54	4450	ND (0.1)	2160	2.91	433	1.95	50.0	ND (0.5)
CW-02D	4/7/2009	6880	7.79	4090	0.208	2100	5.60	489	2.78	57.0	ND (0.5)
CW-03M	4/7/2009	8520	7.43	5660	0.132	2850	2.82	419	0.835	47.0	ND (0.5)
CW-03M	4/7/2009 (FD)	8550	FD	4880	0.129	2820	2.72	417	0.842	48.0	ND (0.5)
CW-03D	4/7/2009	6800	7.77	3790	ND (0.1)	2060	6.02	480	2.64	59.0	ND (0.5)
CW-04M	4/7/2009	6040	7.47	3360	0.133	1920	1.81	322	1.48	54.0	ND (0.5)
CW-04D	4/7/2009	8350	7.56	5870	0.109	2690	4.22	524	2.11	55.0	ND (0.5)
OW-01S	1/6/2009	2590	7.76	1690	0.933	781	2.28	155	2.85	---	---
OW-01S	4/8/2009	3060	7.57	1690	0.817 J	907	2.00	177	3.10	61.0	ND (0.5)
OW-01S	4/8/2009 (FD)	2990	FD	1760	0.962 J	898	2.09	167	3.23	63.0	ND (0.5)
OW-01M	1/6/2009	6570	7.75	4480	0.466	2050	1.86	477	3.08	---	---
OW-01M	4/8/2009	6740	7.55	4660	0.167 J	2130	1.81	486	3.60	75.0	ND (0.5)
OW-01D	1/6/2009	6570	7.86	3780	0.473	2040	1.83	479	2.98	---	---
OW-01D	4/8/2009	6670	7.64	4350	0.299 J	2100	1.78	477	3.70	70.0	ND (0.5)
OW-02S	1/6/2009	1640	8.17	904	1.26	398	5.25	118	4.09	---	---
OW-02S	1/6/2009 (FD)	1640	FD	926	1.30	399	5.01	119	4.19	---	---
OW-02S	4/8/2009	1700	7.90	1080	ND (0.1)	412	4.68	114	3.70	101	ND (0.5)
OW-02M	1/6/2009	6550	7.82	4170	0.547	2180	2.05	476	3.16	---	---
OW-02M	4/8/2009	6850	7.55	4160	ND (0.1)	2060	1.90	479	2.86	78.0	ND (0.5)
OW-02D	1/6/2009	6510	7.90	3950	ND (0.1)	2060	1.99	475	3.05	---	---
OW-02D	4/8/2009	6760	7.61	4390	0.124	2040	2.09	479	2.87	62.0	ND (0.5)
OW-05S	1/6/2009	1610	8.05	950	1.10	410	2.60	107	4.23	---	---
OW-05S	4/8/2009	1960	7.71	1170	0.98 J	511	2.44	125	4.14	81.0	ND (0.5)
OW-05M	1/6/2009	6610	7.78	3960	0.112	2060	2.32	483	3.34	---	---
OW-05M	4/9/2009	6700	7.38	4030	0.114	2100	2.21	522	4.73	68.0	ND (0.5)
OW-05D	1/6/2009	6530	7.78	4290	ND (0.1)	2060	2.32	478	3.26	---	---
OW-05D	4/9/2009	6610	7.41	3710	0.151	2090	2.02	498	3.43	72.0	ND (0.5)

NOTES:

ND	parameter not detected at the listed reporting limit
FD	field duplicate
µmhos/cm	micro-mhos per centimeter
NTU	Nephelometric Turbidity Unit
mg/L	milligrams per liter
---	data not collected, available
J	concentration estimated by laboratory or data validation

TABLE 6
Treated Water Quality Compared to OW and CW Pre-injection Water Quality
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Hexavalent Chromium (µg/L)	Total Chromium (µg/L)	Fluoride (mg/L)	Dissolved Molybdenum (µg/L)	Nitrate/ Nitrite as Nitrogen (mg/L)	Sulfate (mg/L)	TDS (mg/L)
Treated Water	8/29/2005	ND(1.0)	ND(2.1)	1.95	8.3	3.7	450	3620
Treated Water	3/18/2006	ND(1.0)	ND(1.0)	1.92	8.2	2.79	482	4040
Treated Water	4/1/2009	ND (0.2)	ND(1.0)	2.01	19.6	2.48	500	3850
OW-01S	7/28/2005	19.4	23.5	2.45	17.2	3.2	114	1320
OW-01M	7/27/2005	16.3	18.9	2.31	27	1.01	311	3450
OW-01D	7/27/2005	ND(1.0)	ND(1.3)	1.14	46.1	0.321	441	6170
OW-02S	7/28/2005	15.3	14.8	3.79	35.6	3.81	126	1090
OW-02M	7/28/2005	5.4	5.7	2.19	32.4	0.735	342	4380
OW-02D	7/28/2005	ND(1.0)	ND(1.2)	0.966	51.2	0.1	616	9550
OW-05S	7/28/2005	23.4	25.6	2.3	17.1	3.55	105	1060
OW-05M	7/28/2005	8.6	8.8	2.74	35.4	0.621	417	5550
OW-05D	7/28/2005	ND(1.0)	ND(1.2)	1.11	57	0.151	480	8970
CW-01M	9/15/2005	18.1	17.8	2.34	21.6	1.11	318	2990
CW-01D	9/15/2005	ND(1.0)	1.6	0.951	32.1	0.972	379	6230
CW-02M	9/15/2005	15.8	15.5	2.3	23.1	0.908	342	3500
CW-02D	9/15/2005	ND(1.0)	1.6	0.982	41.6	0.28	601	8770
CW-03M	9/15/2005	8.8	8.1	2.57	24.2	0.642	464	4740
CW-03D	9/15/2005	ND(1.0)	ND(1.0)	1.4	29.2	0.304	672	9550
CW-04M	9/15/2005	19.2	19	1.5	12.3	1.18	240	3310
CW-04D	9/15/2005	ND(1.0)	ND(1.0)	1.01	26	0.188	534	7470

NOTES:

ND Not detected at the listed reporting limit.
mg/L milligrams per liter
µg/L micrograms per liter

Hexavalent chromium samples were analyzed with method E218.6.
Total chromium samples were analyzed with method E200.8.
Total chromium samples of the treated water were unfiltered.

TABLE 7
Treated Water Quality Compared to First and Second Quarter 2009 Sampling Event Water Quality
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Hexavalent Chromium (µg/L)	Chromium (total) (µg/L)	Fluoride (mg/L)	Molybdenum (µg/L)	Nitrate/Nitrite as Nitrogen (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
Treated Water	3/8/2006	ND (1.0)	ND (1.0)	1.92	8.20	2.79	482	4040
Treated Water	9/7/2006	ND (1.0)	ND (1.0)	1.93	13.6	2.50	486	4420
Treated Water	4/1/2009	ND (0.2)	ND (1.0)	2.01	19.6	2.48	500	3850
CW-01M	4/8/2009	1.56	ND (1.0)	2.14	ND (10)	2.79	489	4180
CW-01D	4/8/2009	ND (1.0)	ND (1.0)	1.89	ND (10)	2.95	488	3860
CW-02M	4/7/2009	7.80	6.99	2.91	26.0	1.95	433	4450
CW-02D	4/7/2009	0.20	ND (1.0)	5.60	16.3	2.78	489	4090
CW-03M	4/7/2009	11.6	10.6	2.82	19.0	0.835	419	5660
CW-03M	4/7/2009 (FD)	11.4	10.5	2.72	16.3	0.842	417	4880
CW-03D	4/7/2009	0.43	ND (1.0)	6.02	52.0	2.64	480	3790
CW-04M	4/7/2009	17.6	15.8	1.81	ND (10)	1.48	322	3360
CW-04D	4/7/2009	1.76	ND (1.0)	4.22	23.7	2.11	524	5870
OW-01S	1/6/2009	19.7	19.3	2.28	ND (10)	2.85	155	1690
OW-01S	4/8/2009 (FD)	18.2	21.0	2.09	ND (10)	3.23	167	1760
OW-01S	4/8/2009	18.1	22.1	2.00	ND (10)	3.10	177	1690
OW-01M	1/6/2009	0.79	1.04	1.86	ND (10)	3.08	477	4480
OW-01M	4/8/2009	1.23	1.50	1.81	15.8	3.60	486	4660
OW-01D	1/6/2009	ND (1.0)	ND (1.0)	1.83	12.1	2.98	479	3780
OW-01D	4/8/2009	0.63	ND (1.0)	1.78	16.3	3.70	477	4350
OW-02S	1/6/2009	31.6	33.2	5.25	38.6	4.09	118	904
OW-02S	1/6/2009 (FD)	32.2	32.8	5.01	37.5	4.19	119	926
OW-02S	4/8/2009	30.5	27.6	4.68	28.3	3.70	114	1080
OW-02M	1/6/2009	1.46	1.41	2.05	13.0	3.16	476	4170
OW-02M	4/8/2009	1.35	ND (1.0)	1.90	ND (10)	2.86	479	4160
OW-02D	1/6/2009	ND (1.0)	ND (1.0)	1.99	12.9	3.05	475	3950
OW-02D	4/8/2009	ND (1.0)	ND (1.0)	2.09	ND (10)	2.87	479	4390
OW-05S	1/6/2009	25.8	24.3	2.60	29.6	4.23	107	950
OW-05S	4/8/2009	23.4	21.1	2.44	25.7	4.14	125	1170
OW-05M	1/6/2009	0.77	1.08	2.32	15.4	3.34	483	3960
OW-05M	4/9/2009	1.48	1.78	2.21	14.0	4.73	522	4030
OW-05D	1/6/2009	0.49	ND (1.0)	2.32	16.0	3.26	478	4290
OW-05D	4/9/2009	0.80	ND (1.0)	2.02	11.3	3.43	498	3710

TABLE 7
Treated Water Quality Compared to First and Second Quarter 2009 Sampling Event Water Quality
PG&E Topock Compliance Monitoring Program

Notes:

FD	field duplicate
ND	parameter not detected at the listed reporting limit
mg/L	milligrams per liter
µg/L	micrograms per liter

Hexavalent chromium samples were analyzed with method E218.6.

Chromium (total) samples were analyzed with method E200.8. Chromium (total) and molybdenum samples were field filtered, except for the treated water.

Molybdenum samples were analyzed with method E200.8.

Fluoride and Sulfate samples were analyzed with method E300.0.

Nitrate/Nitrite as Nitrogen samples were analyzed with method SM4500NO3E.

Total Dissolved Solid samples were analyzed with method SM2540C.

TABLE 8
Manual Water Level Measurements and Elevations, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

Location ID	Well Depth (feet BTOC)	Measuring Point Elevation (feet AMSL)	Monitoring Date & Time		Water Level Measurement (feet BTOC)	Salinity (%)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
CW-01M	190.0	566.16	20-Jan-09	2:07 PM	110.60	0.57	455.57
			08-Apr-09	9:38 AM	108.98	0.57	457.19
CW-01D	300.2	566.57	20-Jan-09	2:11 PM	110.93	0.60	455.72
			08-Apr-09	8:06 AM	108.89	0.60	457.77
CW-02M	202.0	549.37	22-Jan-09	1:02 PM	94.06	0.59	455.35
			07-Apr-09	10:40 AM	92.24	0.59	457.16
CW-02D	355.0	549.64	22-Jan-09	1:05 PM	93.58	0.60	456.17
			07-Apr-09	8:38 AM	91.86	0.60	457.87
CW-03M	222.0	534.21	22-Jan-09	12:56 PM	78.93	0.70	455.47
			07-Apr-09	12:16 PM	77.01	0.70	457.38
CW-03D	340.0	534.27	28-Jan-09	3:15 PM	77.84	0.66	456.51
			07-Apr-09	1:44 PM	76.44	0.66	458.04
CW-04M	169.8	518.66	22-Jan-09	1:16 PM	67.76	0.61	450.97
			07-Apr-09	4:05 PM	60.91	0.61	457.81
CW-04D	303.0	518.68	22-Jan-09	1:12 PM	62.68	0.84	456.73
			07-Apr-09	5:14 PM	60.84	0.84	458.34
OW-01S	113.5	550.21	06-Jan-09	11:28 AM	95.07	0.28	455.10
			08-Apr-09	2:44 PM	92.85	0.28	457.32
OW-01M	185.8	550.45	06-Jan-09	12:12 PM	94.61	0.58	455.88
			08-Apr-09	1:49 PM	92.89	0.58	457.60
OW-01D	277.0	550.48	06-Jan-09	1:17 PM	93.90	0.58	456.65
			08-Apr-09	3:32 PM	92.53	0.58	458.00
OW-02S	121.0	548.88	06-Jan-09	4:29 PM	93.68	0.17	455.13
			08-Apr-09	12:51 PM	91.55	0.17	457.25
OW-02M	210.3	548.59	06-Jan-09	3:35 PM	92.59	0.58	456.11
			08-Apr-09	10:32 AM	91.16	0.58	457.54
OW-02D	340.0	549.15	06-Jan-09	2:25 PM	92.51	0.57	456.76
			08-Apr-09	11:22 AM	91.19	0.57	458.11
OW-05S	110.3	551.83	06-Jan-09	8:20 AM	96.52	0.25	455.28
			08-Apr-09	4:41 PM	94.32	0.25	457.47
OW-05M	250.3	551.81	06-Jan-09	9:06 AM	95.78	0.67	456.18
			09-Apr-09	8:13 AM	93.70	0.67	458.26
OW-05D	350.0	552.33	06-Jan-09	10:06 AM	96.31	0.76	456.57

TABLE 8
Manual Water Level Measurements and Elevations, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

Location ID	Well Depth (feet BTOC)	Measuring Point Elevation (feet AMSL)	Monitoring Date & Time		Water Level Measurement (feet BTOC)	Salinity (%)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
OW-05D	350.0	552.33	09-Apr-09	9:06 AM	94.38	0.76	458.47

Notes:

AMSL above mean sea level
BTOC below top of polyvinyl chloride (PVC) casing
% percentage

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

TABLE 9
Vertical Gradients within the OW and CW Clusters
PG&E Topock Compliance Monitoring Program

Well Pairs	Vertical Gradient (ft/ft)[a]
CW-01D to CW-01M	0.0035
CW-02D to CW-02M	0.0048
CW-03D to CW-03M	0.0055
CW-04D to CW-04M	--
OW-01M to OW-01S	0.0039
OW-01D to OW-01M	0.0033
OW-02M to OW-02S	0.0024
OW-02D to OW-02M	0.0037
OW-05M to OW-05S	0.0059
OW-05D to OW-05M	0.0025

[a] Positive value signifies an upward gradient.

Gradients calculated using April 1 through April 30, 2009 average groundwater levels.

"—": Data unavailable for CW-04D due to transducer failure and malfunction. Vertical gradients cannot be calculated.

TABLE 10
Field Parameter Measurements for Groundwater Samples, First and Second Quarter 2009
PG&E Topock Compliance Monitoring Program

Location ID	Sampling Date	Specific Conductance (µmhos/cm)	Temperature (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Salinity (%)
CW-01M	4/8/2009	7467	29.74	7.75	76.5	5.2	1.7	0.48
CW-01D	4/8/2009	7430	29.16	7.74	78.8	5.77	0.7	0.48
CW-02M	4/7/2009	7713	29.7	7.54	42.4	3.44	1.3	0.5
CW-02D	4/7/2009	7769	30.79	7.79	56	6.45	1.7	0.5
CW-03M	4/7/2009	9630	29.8	7.43	27.3	0.51	1.2	0.62
CW-03D	4/7/2009	7643	30.73	7.77	40.2	6.21	1.1	0.49
CW-04M	4/7/2009	6757	29.9	7.47	28.7	1.38	1.2	0.43
CW-04D	4/7/2009	9437	30.49	7.56	36.2	4.62	1	0.61
OW-01S	1/6/2009	2979	28.84	7.76	-80	2.98	3	0.19
OW-01S	4/8/2009	3319	29.24	7.57	63.3	3.18	4	0.21
OW-01M	1/6/2009	7290	29.68	7.75	-57.9	6.11	0.5	0.47
OW-01M	4/8/2009	7349	29.91	7.55	86.9	6.96	1.1	0.47
OW-01D	1/6/2009	7321	29.66	7.86	-38.2	6.71	0.8	0.47
OW-01D	4/8/2009	7370	30.04	7.64	81.5	6.75	1.5	0.48
OW-02S	1/6/2009	1807	28.29	8.17	-54.7	5.11	3	0.11
OW-02S	4/8/2009	1848	29.09	7.9	76.2	6.23	1.6	0.12
OW-02M	1/6/2009	7271	28.9	7.82	-37.1	5.97	0.4	0.47
OW-02M	4/8/2009	7354	28.83	7.55	93.6	6.62	1	0.47
OW-02D	1/6/2009	7302	27.55	7.9	-47.4	4.81	0.5	0.47
OW-02D	4/8/2009	7315	28.06	7.61	94.7	7.47	0.8	0.47
OW-05S	1/6/2009	1785	28.26	8.05	-48.6	5.25	5	0.11
OW-05S	4/8/2009	2128	28.98	7.71	72.6	5.17	5.1	0.14
OW-05M	1/6/2009	7347	29.9	7.78	-57.4	4.33	0.3	0.47
OW-05M	4/9/2009	7416	28.78	7.38	90	5.23	0.9	0.48
OW-05D	1/6/2009	7316	29.45	7.78	-32.7	4.73	0.3	0.47
OW-05D	4/9/2009	7403	28.19	7.41	85	5.93	0.9	0.48

Notes:

µmhos/cm	micro-mhos per centimeter
°C	degree centigrade
ORP	oxidation reduction potential
mV	millivolts
mg/L	milligrams per liter
NTU	Nephelometric Turbidity Unit
%	percentage

Salinity is calculated using the specific conductance field measurement, the last measurement before sampling.

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-01D	CW-01D-020	Aurora Abbott	4/8/2009	9:12:00 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6810	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.12	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	129	4.00	0.094
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	14.4	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	11.1	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1290	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	5.35	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.60	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	18.6	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	ND (1.0)	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-01D	CW-01D-020	Aurora Abbott	4/8/2009	9:12:00 AM	TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2110	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	1.89	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	488	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	72.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	72.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	3860	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.95	0.5	0.10
CW-01M	CW-01M-020	Aurora Abbott	4/8/2009	10:08:00 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6970	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.21	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	130	4.00	0.094
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0205	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	16.1	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	10.7	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1260	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.59	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	67.0	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-01M	CW-01M-020	Aurora Abbott	4/8/2009	10:08:00 AM	TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	1.56	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2090	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	2.14	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	489	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	70.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	70.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.135	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4180	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.79	0.5	0.10
CW-02D	CW-02D-020	Aurora Abbott	4/7/2009	10:16:06 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6880	2.0	0.022
					TLI	EPA 200.7	BD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.43	0.20	0.0048
					TLI	EPA 200.7	CAD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	70.6	2.00	0.047
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0292	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	15.0	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	3.47	0.10	0.0006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1400	100	0.22

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-02D	CW-02D-020	Aurora Abbott	4/7/2009	10:16:06 AM	TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	4.55	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	10.4	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	16.3	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	6.27	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	14.8	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	0.20	0.2	0.0304
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2100	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	5.60	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	489	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	57.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	57.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.208	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4090	250	7.00

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-02D	CW-02D-020	Aurora Abbott	4/7/2009	10:16:06 AM	TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.78	0.5	0.10
CW-02M	CW-02M-020	Aurora Abbott	4/7/2009	11:32:24 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6710	2.0	0.022
					TLI	EPA 200.7	BD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.04	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	132	4.00	0.094
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0448	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0369	0.02	0.0024
					TLI	EPA 200.7	KD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	15.6	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	9.21	0.10	0.0006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1300	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	2.71	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	61.4	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	6.99	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	26.0	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-02M	CW-02M-020	Aurora Abbott	4/7/2009	11:32:24 AM	TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	7.80	0.2	0.0304
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2160	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	2.91	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	433	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	50.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	50.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4450	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	1.95	0.5	0.10
CW-03D	CW-03D-020	Aurora Abbott	4/7/2009	3:00:00 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6800	2.0	0.022
					TLI	EPA 200.7	BD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.43	0.20	0.0048
					TLI	EPA 200.7	CAD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	63.1	2.00	0.047
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	15.0	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	4.70	0.10	0.0006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1380	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.89	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-03D	CW-03D-020	Aurora Abbott	4/7/2009	3:00:00 PM	TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	52.0	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	0.43	0.2	0.0304
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2060	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	6.02	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	480	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	59.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	59.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	3790	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.64	0.5	0.10
CW-03M	OW-90-020	Aurora Abbott	4/7/2009	9:16:49 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	8550	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.08	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	204	10.0	0.235
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	21.4	2.00	0.019

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-03M	OW-90-020	Aurora Abbott	4/7/2009	9:16:49 AM	TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	18.0	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1500	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.04	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	48.4	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	10.5	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	16.3	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	11.4	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2820	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	2.72	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	417	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	48.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	48.0	5.0	1.53

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-03M	OW-90-020	Aurora Abbott	4/7/2009	9:16:49 AM	TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.129	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4880	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	0.842	0.2	0.04
CW-03M	CW-03M-020	Aurora Abbott	4/7/2009	1:14:03 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	8520	2.0	0.022
					TLI	EPA 200.7	BD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.04	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	203	10.0	0.235
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	20.4	2.00	0.019
					TLI	EPA 200.7	MGD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	16.7	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1610	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	8.06	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.21	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	49.6	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	10.6	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	19.0	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-03M	CW-03M-020	Aurora Abbott	4/7/2009	1:14:03 PM	TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	11.6	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2850	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	2.82	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	419	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	47.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	47.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.132	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	5660	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	0.835	0.2	0.04
CW-04D	CW-04D-020	Aurora Abbott	4/7/2009	6:17:02 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	8350	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.40	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	147	4.00	0.094
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	17.4	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	8.28	0.10	0.0006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1630	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	3.88	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	22.1	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	7.24	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-04D	CW-04D-020	Aurora Abbott	4/7/2009	6:17:02 PM	TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	23.7	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	1.76	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2690	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	4.22	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	524	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	55.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	55.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.109	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	5870	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.11	0.5	0.10
CW-04M	CW-04M-020	Aurora Abbott	4/7/2009	4:50:00 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6040	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.811	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	151	4.00	0.094
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-04M	CW-04M-020	Aurora Abbott	4/7/2009	4:50:00 PM	TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	15.4	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	12.4	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1120	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	2.34	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	75.2	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	15.8	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	17.6	0.2	0.0304
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	1920	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	1.81	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	322	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	54.0	5.0	1.53

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
CW-04M	CW-04M-020	Aurora Abbott	4/7/2009	4:50:00 PM	TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	54.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.133	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	3360	125	3.50
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	1.48	0.2	0.04
OW-01D	OW-01D-019	Barry Collom	1/6/2009	2:04:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6570	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	1.02	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	ND (1.0)	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	12.1	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	ND (1.0)	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2040	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	1.83	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	479	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	0.473	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	3780	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	2.98	0.5	0.10
OW-01D	OW-01D-020	Aurora Abbott	4/8/2009	4:16:49 PM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	6670	2.0	0.022
					TLI	EPA 200.7	BD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.10	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	146	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	16.0	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	11.6	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1450	100	0.22
					TLI	EPA 200.8	AGD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01D	OW-01D-020	Aurora Abbott	4/8/2009	4:16:49 PM	TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.99	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	33.5	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	16.3	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	0.63	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/13/2009	Giawad Ghenniwa	mg/L	2100	100	14.0
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	1.78	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	477	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	70.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	70.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.299 J	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	4350	250	7.00
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	3.70	0.5	0.10

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01M	OW-01M-019	Barry Collom	1/6/2009	12:47:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6570	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.989	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	1.04	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	ND (10)	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	0.79	0.2	0.0304
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2050	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	1.86	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	477	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	0.466	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	4480	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	3.08	0.5	0.10
OW-01M	OW-01M-020	Aurora Abbott	4/8/2009	2:24:00 PM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	6740	2.0	0.022
					TLI	EPA 200.7	BD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.04	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	176	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0389	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	19.6	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	18.9	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1320	100	0.22
					TLI	EPA 200.8	AGD	5/5/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.62	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	84.0	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.50	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01M	OW-01M-020	Aurora Abbott	4/8/2009	2:24:00 PM	TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	15.8	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	1.23	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/13/2009	Giawad Ghenniwa	mg/L	2130	100	14.0
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	1.81	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	486	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	75.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	75.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.167 J	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	4660	250	7.00
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	3.60	0.5	0.10
OW-01S	OW-01S-019	Barry Collom	1/6/2009	11:51:00 AM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	2590	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.321	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	19.3	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	ND (10)	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	19.7	0.2	0.0304
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	781	40.0	5.60
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	2.28	0.5	0.025

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01S	OW-01S-019	Barry Collom	1/6/2009	11:51:00 AM	TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	155	5.0	0.24
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	0.933	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	1690	50.0	10.1
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	2.85	0.5	0.10
OW-01S	OW-91-020	Aurora Abbott	4/8/2009	8:25:00 AM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	2990	2.0	0.022
					TLI	EPA 200.7	BD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.384	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	142	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0896	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	12.5	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	28.0	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	459	20.0	0.044
					TLI	EPA 200.8	AGD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	102	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	5/6/2009	Daniel Kang/ Linda Saetern	µg/L	21.0	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01S	OW-91-020	Aurora Abbott	4/8/2009	8:25:00 AM	TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	18.2	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/14/2009	Giawad Ghenniwa	mg/L	898	40.0	5.60
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	2.09	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	167	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	63.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	63.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.962 J	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	1760	50.0	1.40
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	3.23	0.5	0.10
OW-01S	OW-01S-020	Aurora Abbott	4/8/2009	3:08:00 PM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	3060	2.0	0.022
					TLI	EPA 200.7	BD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.342	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	145	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0968	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	12.2	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	27.6	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	461	20.0	0.044
					TLI	EPA 200.8	AGD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.00	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	96.4	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-01S	OW-01S-020	Aurora Abbott	4/8/2009	3:08:00 PM	TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	5/6/2009	Daniel Kang/ Linda Saetern	µg/L	22.1	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	18.1	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/14/2009	Giawad Ghenniwa	mg/L	907	40.0	5.60
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	2.00	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	177	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	61.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	61.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.817 J	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	1690	50.0	1.40
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	3.10	0.5	0.10
OW-02D	OW-02D-019	Barry Collom	1/6/2009	3:20:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6510	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	1.00	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	ND (1.0)	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	12.9	10.0	0.0168

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02D	OW-02D-019	Barry Collom	1/6/2009	3:20:00 PM	TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	ND (1.0)	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2060	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	1.99	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	475	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	3950	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	3.05	0.5	0.10
OW-02D	OW-02D-020	Aurora Abbott	4/8/2009	12:12:37 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6760	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.13	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	178	10.0	0.235
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	17.8	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	24.1	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1200	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.95	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	19.2	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02D	OW-02D-020	Aurora Abbott	4/8/2009	12:12:37 PM	TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	ND (1.0)	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2040	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	2.09	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	479	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	62.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	62.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	0.124	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4390	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.87	0.5	0.10
OW-02M	OW-02M-019	Barry Collom	1/6/2009	4:15:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6550	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.989	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	1.41	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	13.0	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	1.46	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2180	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	2.05	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	476	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	0.547	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	4170	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	3.16	0.5	0.10

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02M	OW-02M-020	Aurora Abbott	4/8/2009	11:03:00 AM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	6850	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.09	0.20	0.0048
					TLI	EPA 200.7	CAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	176	10.0	0.235
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	19.3	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	20.2	0.50	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1180	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	57.4	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	14.7	10.0	0.575
					TLI	EPA 218.6	CR6	4/9/2009	Michael Nonezyan	µg/L	1.35	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02M	OW-02M-020	Aurora Abbott	4/8/2009	11:03:00 AM	TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	2060	100	14.0
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	1.90	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	479	25.0	1.20
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	78.0	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	78.0	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	4160	250	7.00
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	2.86	0.5	0.10
OW-02S	MW-91-019	Barry Collom	1/6/2009	1:30:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	1640	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.656	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	32.8	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	37.5	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	32.2	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	399	20.0	2.80
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	5.01	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	119	5.0	0.24
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	1.30	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	926	50.0	10.1
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	4.19	0.5	0.10
OW-02S	OW-02S-019	Barry Collom	1/6/2009	4:48:00 PM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	1640	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.694	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	33.2	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	38.6	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	31.6	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	398	20.0	2.80

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02S	OW-02S-019	Barry Collom	1/6/2009	4:48:00 PM	TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	5.25	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	118	5.0	0.24
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	1.26	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	904	50.0	10.1
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	4.09	0.5	0.10
OW-02S	OW-02S-020	Aurora Abbott	4/8/2009	1:23:05 PM	TLI	EPA 120.1	SC	4/9/2009	Tina Acquiat	µmhos/cm	1700	2.0	0.022
					TLI	EPA 200.7	BD	4/28/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.675	0.20	0.0048
					TLI	EPA 200.7	CAD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	28.6	2.00	0.047
					TLI	EPA 200.7	FE	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.0449	0.02	0.0024
					TLI	EPA 200.7	FETD	4/15/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	6.20	2.00	0.019
					TLI	EPA 200.7	MGD	4/20/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	4.44	0.10	0.006
					TLI	EPA 200.7	NAD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	300	100	0.22
					TLI	EPA 200.8	AGD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	2.39	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	40.0	10.0	0.081
					TLI	EPA 200.8	BED	4/14/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	27.6	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	28.3	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-02S	OW-02S-020	Aurora Abbott	4/8/2009	1:23:05 PM	TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	6.01	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/10/2009	Michael Nonezyan	µg/L	30.5	1.0	0.152
					TLI	EPA 245.1	HGD	4/16/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/10/2009	Giawad Ghenniwa	mg/L	412	20.0	2.80
					TLI	EPA 300.0	FL	4/10/2009	Giawad Ghenniwa	mg/L	4.68	0.5	0.025
					TLI	EPA 300.0	SO4	4/10/2009	Giawad Ghenniwa	mg/L	114	5.0	0.24
					TLI	SM 2320B	ALKB	4/9/2009	Iordan Stavrev	mg/L	101	5.0	1.53
					TLI	SM 2320B	ALKC	4/9/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	1.53
					TLI	SM 2320B	ALKT	4/9/2009	Iordan Stavrev	mg/L	101	5.0	1.53
					TLI	SM2130B	TRB	4/9/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	4/13/2009	Tina Acquiat	mg/L	1080	50.0	1.40
					TLI	SM4500NH3D	NH3N	4/13/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/17/2009	Elena Robles	mg/L	3.70	0.5	0.10
OW-05D	OW-05D-019	Barry Collom	1/6/2009	11:03:00 AM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6530	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.963	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	ND (1.0)	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	16.0	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	0.49	0.2	0.0304
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2060	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	2.32	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	478	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	ND (0.1)	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	4290	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	3.26	0.5	0.10
OW-05D	OW-05D-020	Aurora Abbott	4/9/2009	10:05:00 AM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	6610	2.0	0.022

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-05D	OW-05D-020	Aurora Abbott	4/9/2009	10:05:00 AM	TLI	EPA 200.7	BD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.13	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	190	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	19.7	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	26.2	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1390	100	0.22
					TLI	EPA 200.8	AGD	5/5/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.22	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	21.2	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	11.3	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	0.80	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/13/2009	Giawad Ghenniwa	mg/L	2090	100	14.0

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-05D	OW-05D-020	Aurora Abbott	4/9/2009	10:05:00 AM	TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	2.02	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	498	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	72.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	72.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.151	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	3710	250	7.00
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	3.43	0.5	0.10
OW-05M	OW-05M-019	Barry Collom	1/6/2009	9:45:00 AM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	6610	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.995	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	1.08	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	15.4	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	0.77	0.2	0.0304
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	2060	100	14.0
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	2.32	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	483	12.5	0.60
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	0.112	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	3960	250	50.4
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	3.34	0.5	0.10
OW-05M	OW-05M-020	Aurora Abbott	4/9/2009	8:51:00 AM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	6700	2.0	0.022
					TLI	EPA 200.7	BD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1.07	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	177	10.0	0.235
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	18.7	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	18.9	0.50	0.006

TABLE 11

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-05M	OW-05M-020	Aurora Abbott	4/9/2009	8:51:00 AM	TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	1340	100	0.22
					TLI	EPA 200.8	AGD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	45.8	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192
					TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.78	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	14.0	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	1.48	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/13/2009	Giawad Ghenniwa	mg/L	2100	100	14.0
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	2.21	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	522	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	68.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	68.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.114	0.1	0.007

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PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-05M	OW-05M-020	Aurora Abbott	4/9/2009	8:51:00 AM	TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	4030	250	7.00
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	4.73	0.5	0.10
OW-05S	OW-05S-019	Barry Collom	1/6/2009	8:45:00 AM	TLI	EPA 120.1	SC	1/8/2009	Tina Acquiat	µmhos/cm	1610	2.0	0.099
					TLI	EPA 200.7	BD	1/14/2009	Mark Kotani	mg/L	0.423	0.02	0.0048
					TLI	EPA 200.8	CRTD	1/15/2009	Romuel Chaves	µg/L	24.3	1.0	0.0532
					TLI	EPA 200.8	MOD	1/26/2009	Romuel Chaves	µg/L	29.6	10.0	0.0168
					TLI	EPA 218.6	CR6	1/8/2009	Michael Nonezyan	µg/L	25.8	1.0	0.152
					TLI	EPA 300.0	CL	1/12/2009	Giawad Ghenniwa	mg/L	410	40.0	5.60
					TLI	EPA 300.0	FL	1/8/2009	Giawad Ghenniwa	mg/L	2.60	0.5	0.025
					TLI	EPA 300.0	SO4	1/12/2009	Giawad Ghenniwa	mg/L	107	25.0	1.20
					TLI	SM2130B	TRB	1/8/2009	Gautam Savani	NTU	1.10	0.1	0.007
					TLI	SM2540C	TDS	1/8/2009	Tina Acquiat	mg/L	950	50.0	10.1
					EMXT	SM4500NO3-E	NO3NO2N	1/14/2009	Elena Robles	mg/L	4.23	0.5	0.10
OW-05S	OW-05S-020	Aurora Abbott	4/8/2009	5:04:00 PM	TLI	EPA 120.1	SC	4/13/2009	Tina Acquiat	µmhos/cm	1960	2.0	0.022
					TLI	EPA 200.7	BD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.536	0.20	0.0048
					TLI	EPA 200.7	CAD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	76.5	2.00	0.047
					TLI	EPA 200.7	FE	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	0.116	0.02	0.0024
					TLI	EPA 200.7	FETD	4/21/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	ND (0.02)	0.02	0.0024
					TLI	EPA 200.7	KD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	9.20	2.00	0.019
					TLI	EPA 200.7	MGD	4/22/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	13.1	0.50	0.006
					TLI	EPA 200.7	NAD	4/23/2009	Hope Trinidad/Kris Collins/Daniel Kang	mg/L	332	20.0	0.044
					TLI	EPA 200.8	AGD	5/5/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.106
					TLI	EPA 200.8	ALD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (50)	50.0	1.28
					TLI	EPA 200.8	ASD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	1.22	1.0	0.075
					TLI	EPA 200.8	BAD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	68.8	10.0	0.081
					TLI	EPA 200.8	BED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.192

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician	Units	Result	RL	MDL
OW-05S	OW-05S-020	Aurora Abbott	4/8/2009	5:04:00 PM	TLI	EPA 200.8	CDD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (3.0)	3.0	0.0575
					TLI	EPA 200.8	COBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.126
					TLI	EPA 200.8	CRTD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	21.1	1.0	0.266
					TLI	EPA 200.8	CUD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.65
					TLI	EPA 200.8	MND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	MOD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	25.7	10.0	0.084
					TLI	EPA 200.8	NID	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.635
					TLI	EPA 200.8	PBD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.091
					TLI	EPA 200.8	SBD	4/15/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.112
					TLI	EPA 200.8	SED	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.0805
					TLI	EPA 200.8	TLD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (1.0)	1.0	0.09
					TLI	EPA 200.8	VD	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (5.0)	5.0	0.062
					TLI	EPA 200.8	ZND	4/13/2009	Daniel Kang/ Linda Saetern	µg/L	ND (10)	10.0	0.575
					TLI	EPA 218.6	CR6	4/14/2009	Michael Nonezyan	µg/L	23.4	0.2	0.0304
					TLI	EPA 245.1	HGD	4/27/2009	Romuel Chaves	µg/L	ND (0.2)	0.2	0.03
					TLI	EPA 300.0	CL	4/14/2009	Giawad Ghenniwa	mg/L	511	40.0	5.60
					TLI	EPA 300.0	FL	4/13/2009	Giawad Ghenniwa	mg/L	2.44	0.5	0.025
					TLI	EPA 300.0	SO4	4/13/2009	Giawad Ghenniwa	mg/L	125	25.0	1.20
					TLI	SM 2320B	ALKB	4/14/2009	Iordan Stavrev	mg/L	81.0	5.0	0.153
					TLI	SM 2320B	ALKC	4/14/2009	Iordan Stavrev	mg/L	ND (5.0)	5.0	0.153
					TLI	SM 2320B	ALKT	4/14/2009	Iordan Stavrev	mg/L	81.0	5.0	0.153
					TLI	SM2130B	TRB	4/11/2009	Gautam Savani	NTU	0.98 J	0.1	0.007
					TLI	SM2540C	TDS	4/14/2009	Tina Acquiat	mg/L	1170	50.0	1.40
					TLI	SM4500NH3D	NH3N	4/14/2009	Iordan Stavrev	mg/L	ND (0.5)	0.5	0.005
					EMXT	SM4500NO3-E	NO3NO2N	4/22/2009	Elena Robles	mg/L	4.14	0.5	0.10

TABLE 11

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2009

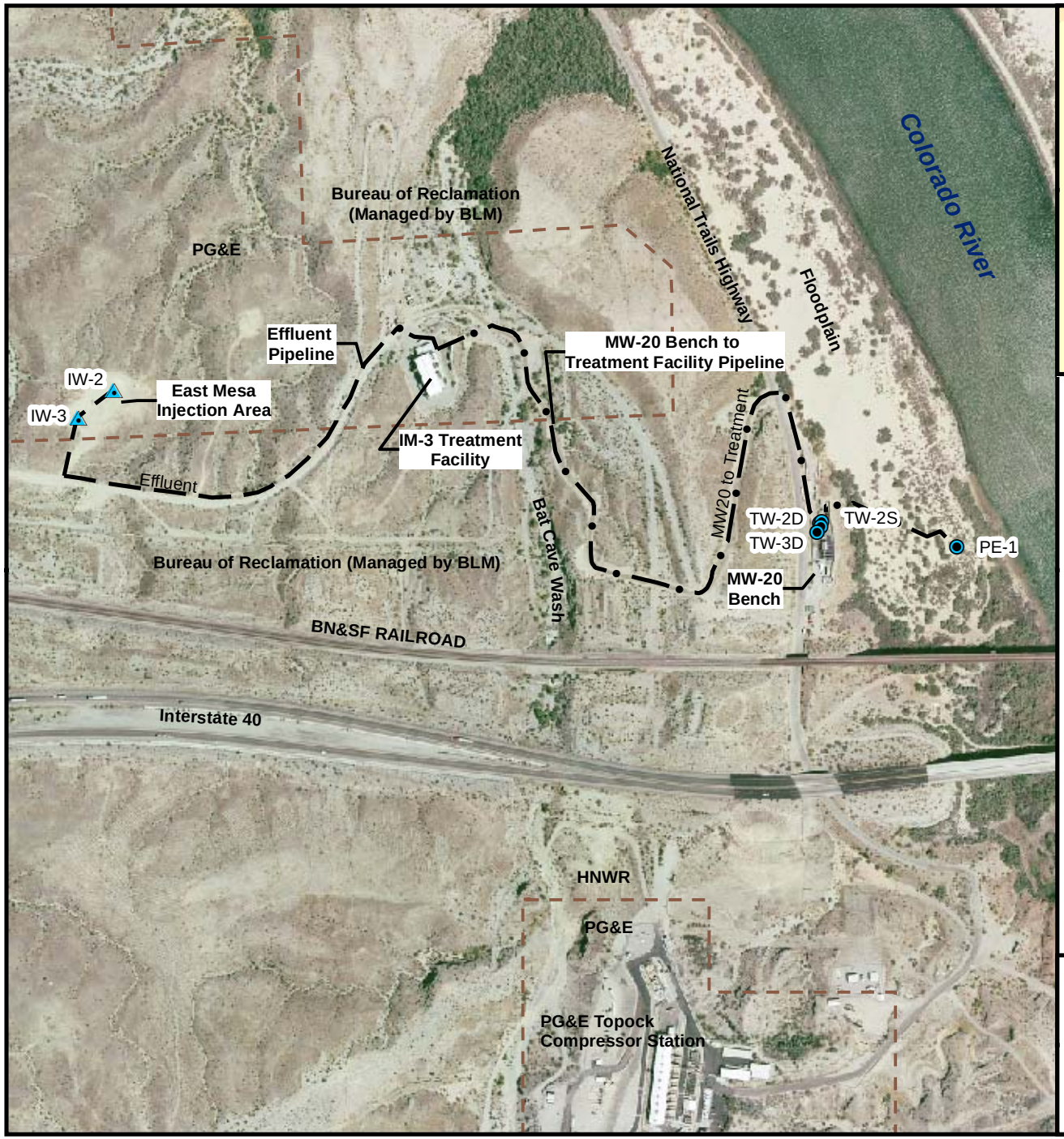
PG&E Topock Compliance Monitoring Program

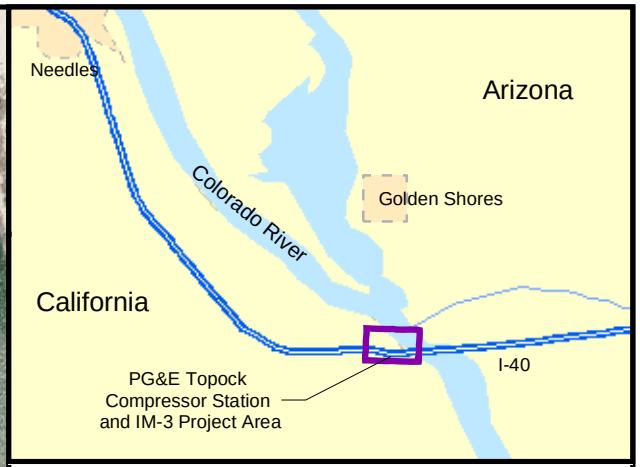
NOTES:

MDL	method detection limit corrected for sample dilution
RL	reporting limit corrected for sample dilution
ND	parameter not detected at the listed reporting limit
µmhos/cm	micro-mhos per centimeter
NTU	Nephelometric Turbidity Unit
mg/L	milligrams per liter
µg/L	micrograms per liter
J	Concentration estimated by laboratory or data validation
TLI	Truesdail Laboratories, Inc.
EMXT	Emax Laboratories
WDR	Waste Discharge Requirements

ALKC	alkalinity, as carbonate	HGD	mercury, dissolved
ALKT	alkalinity, total as CaCO3	KD	potassium, dissolved
ALKB	alkalinity, bicarbonate as CaCO3	MGD	magnesium, dissolved
ALD	almunium, dissolved	MND	manganese, dissolved
AGD	silver, dissolved	MOD	molybdenum, dissolved
ASD	arsenic, dissolved	NAD	sodium, dissolved
BD	boron, dissolved	NID	nickel, dissolved
BAD	barium, dissolved	NH3N	ammonia (as Nitrogen)
BED	beryllium, dissolved	NO3NO2N	nitrate/nitrite (as Nitrogen)
CAD	calcium, dissolved	PBD	lead, dissolved
CDD	cadmium, dissolved	SBD	antimony, dissolved
CL	chloride	SC	specific conductance
COBD	cobalt, dissolved	SED	selenium, dissolved
CRTD	chromium, dissolved	SO4	sulfate
CR6	hexavalent chromium	TLD	thallium, dissolved
CUD	copper, dissolved	TDS	total dissolved solids
FE	iron	TRB	turbidity
FETD	iron, dissolved	VD	vanadium, dissolved
FL	fluoride	ZND	zinc, dissolved

Figures





N

0 550 1,100 Feet

1 inch equals 550 feet

LEGEND

- PG&E Property Line
- Existing IM Extraction Well
- Existing IM Injection Well
- Treatment Facility Pipeline

Notes: Location map shows Interim Measures No.3 (IM-3) facilities as of of January 2006. Aerial photography taken May 2005.

FIGURE 1
SITE LOCATION AND LAYOUT

IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

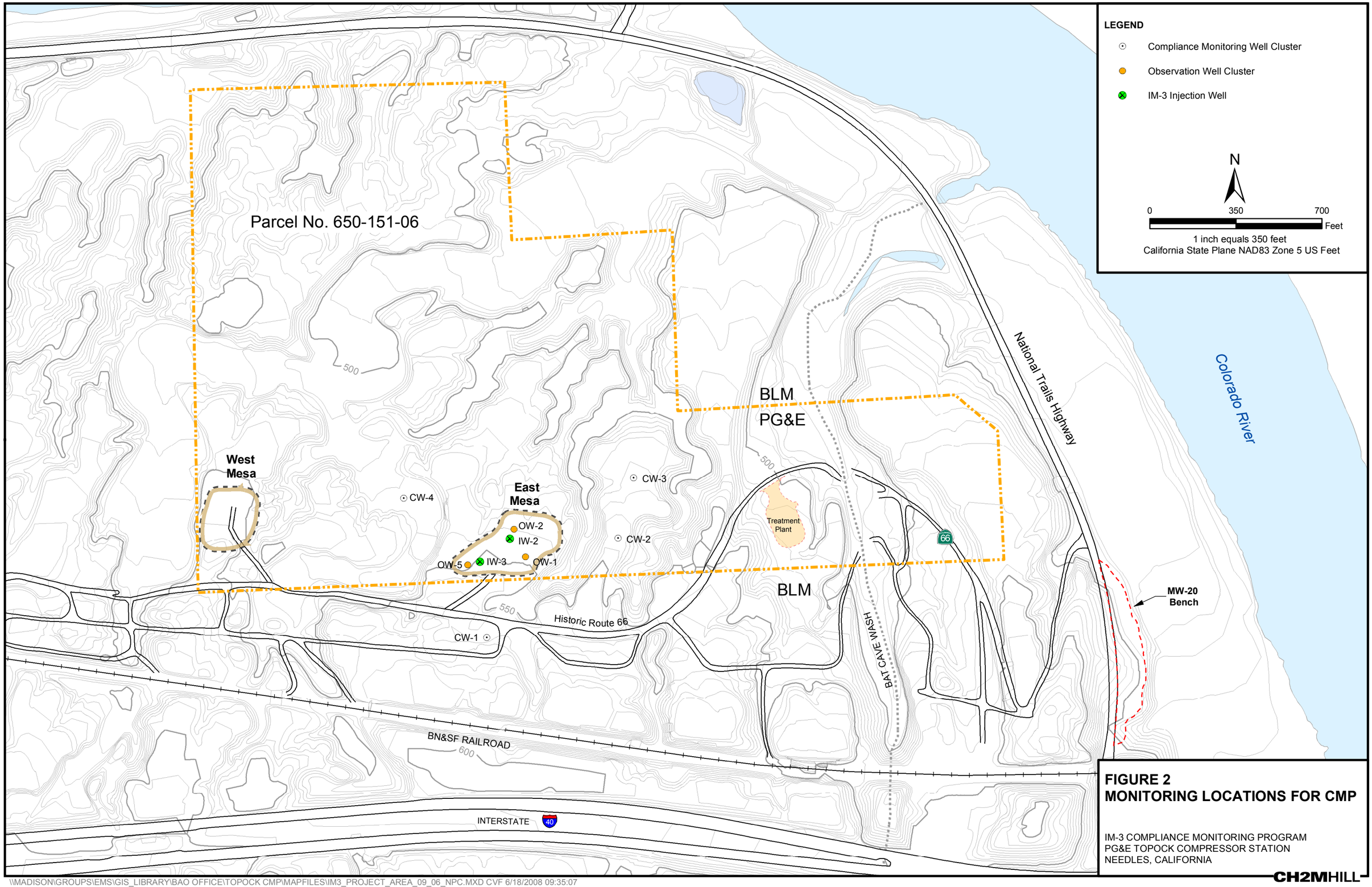
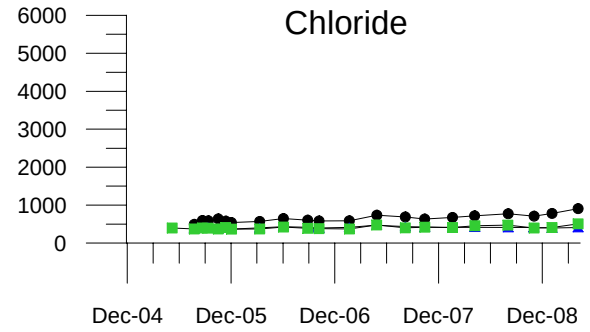


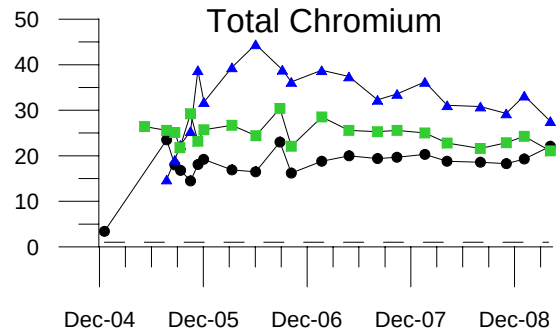
FIGURE 2
MONITORING LOCATIONS FOR CMP

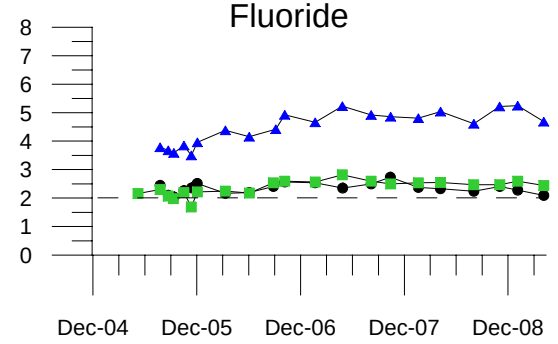
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

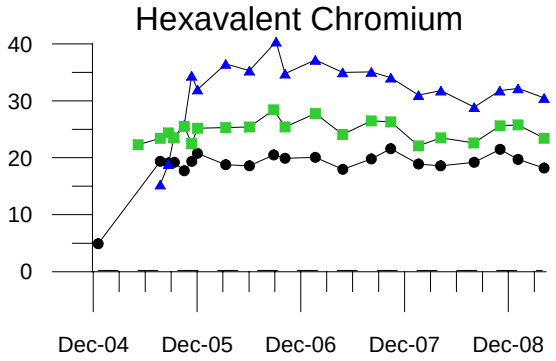
CH2MHILL

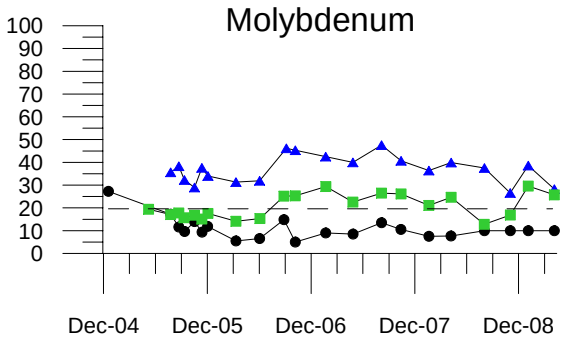
\\MADISON\GROUPS\EMS\GIS_LIBRARY\BAO OFFICE\TOPOCK CMP\MAPFILES\IM3_PROJECT_AREA_09_06_NPC.MXD CVF 6/18/2008 09:35:07

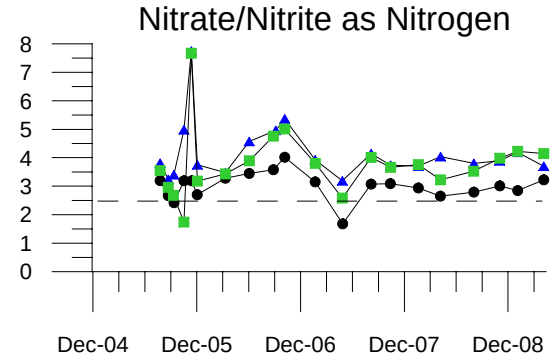


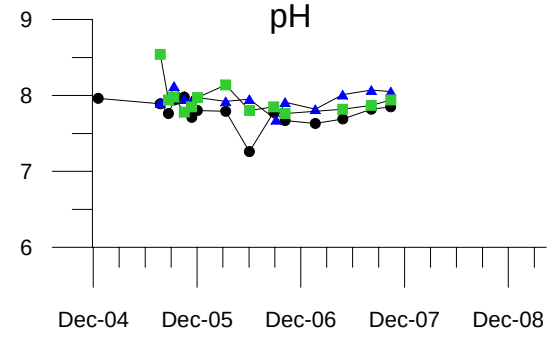


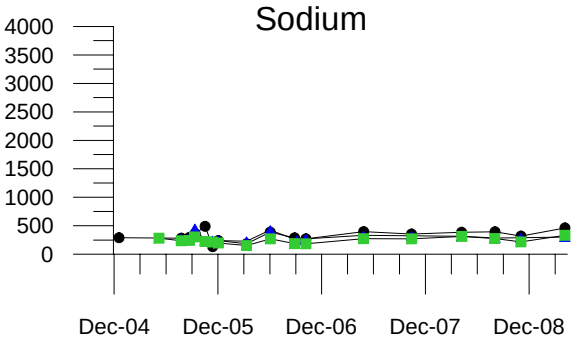


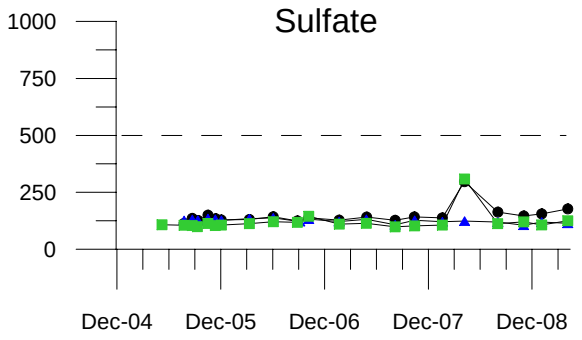


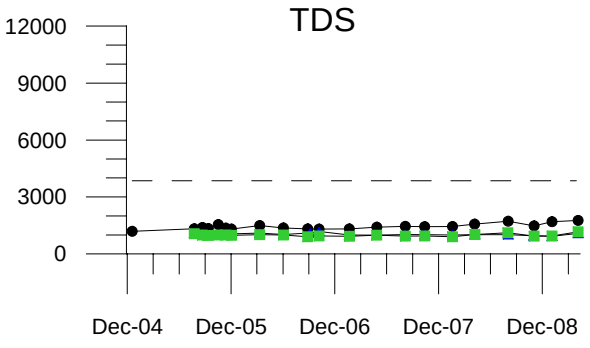


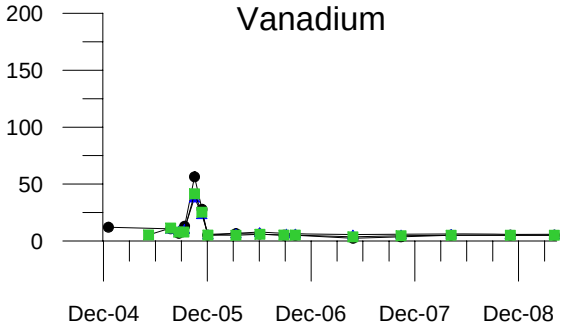


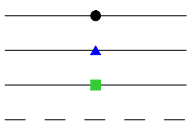








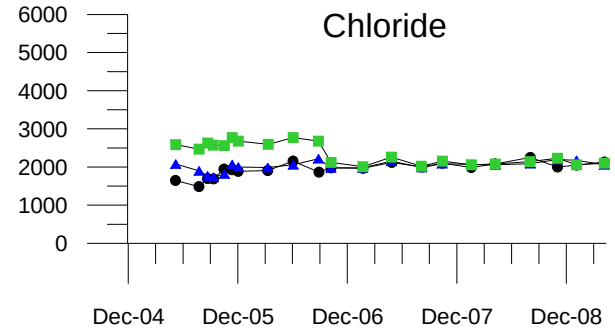


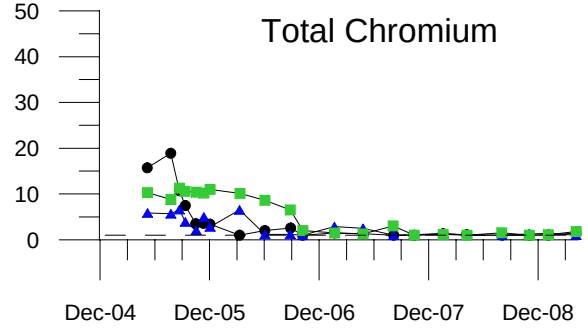


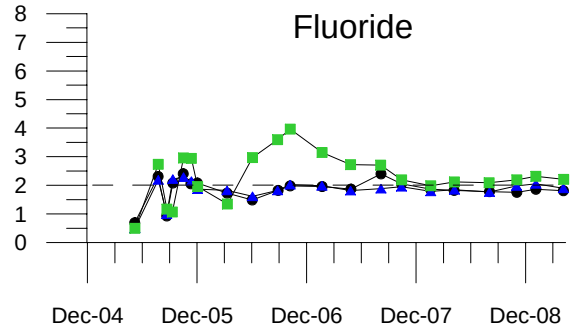
Cr(T), Cr(VI), molybdenum, and vanadium concentration units in µg/L. Other analyte concentration units in mg/L. Treated water only on select analytes.

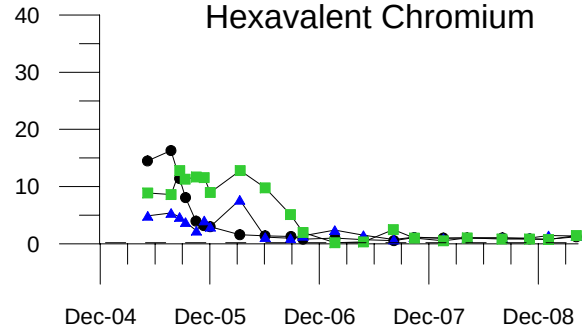
FIGURE 3A
OW-1S, OW-2S, OW-5S
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

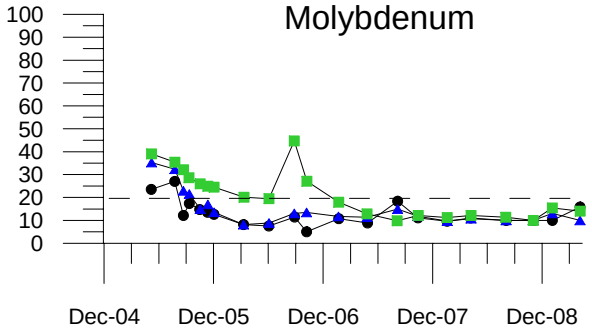
CH2MHILL

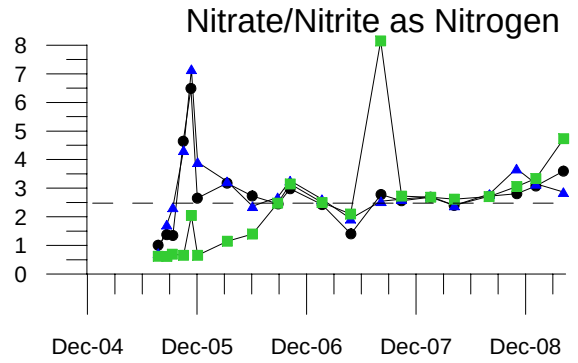


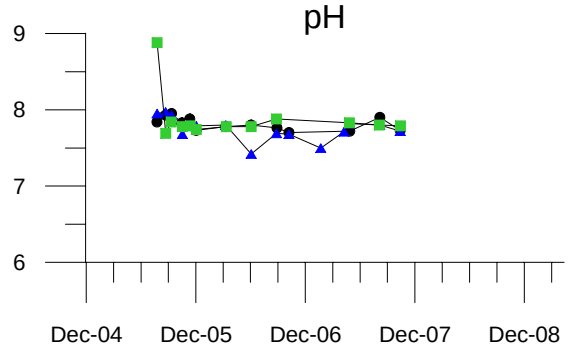


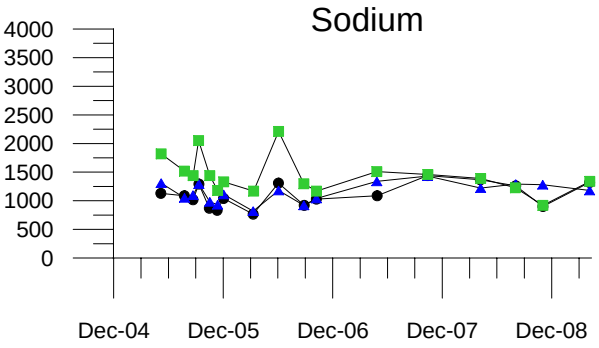


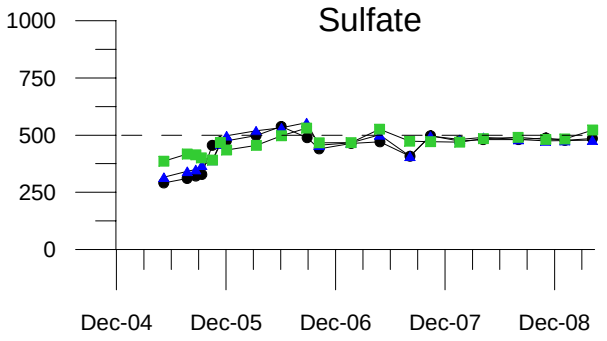


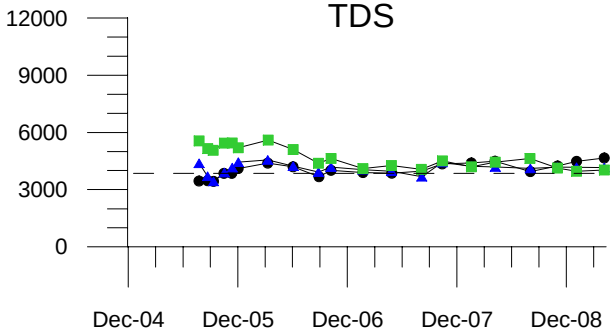


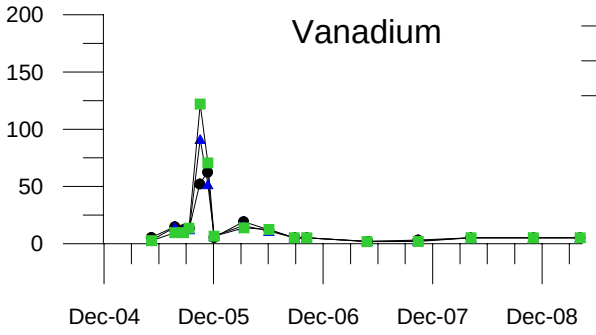


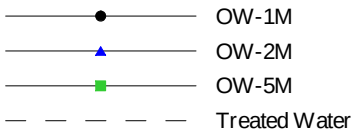








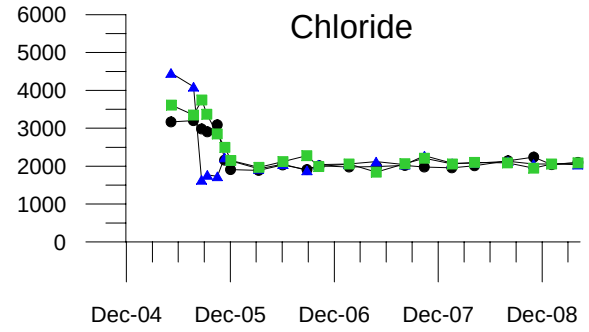


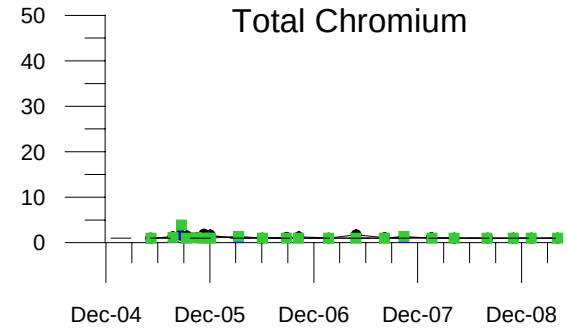


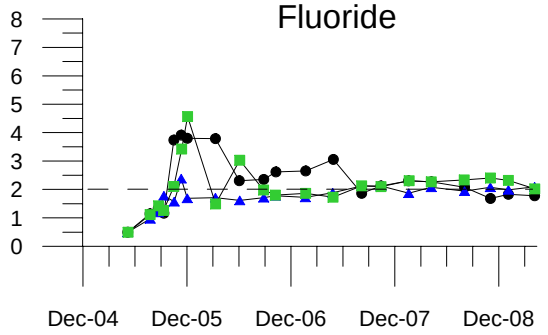
Cr(T), Cr(VI), molybdenum, and vanadium concentration units in µg/L. Other analyte concentration units in mg/L. Treated water only on select analytes.

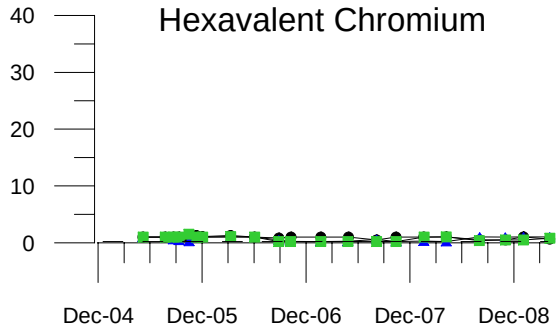
FIGURE 3B
OW-1M, OW-2M, OW-5M
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

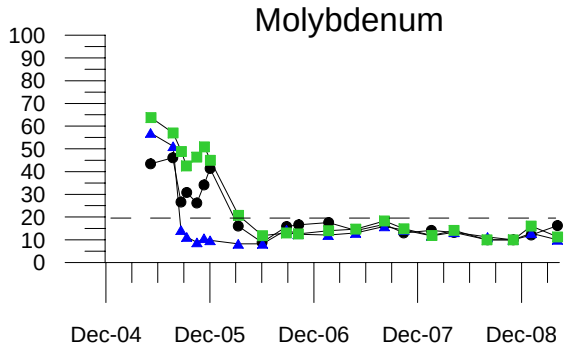
CH2MHILL

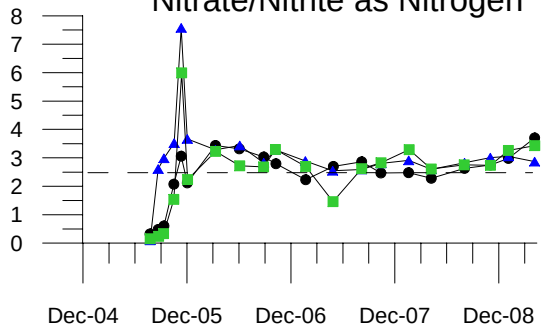


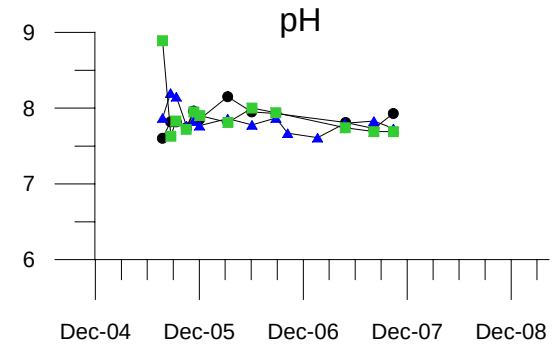


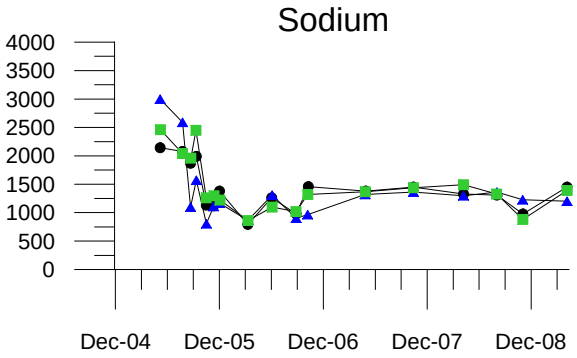


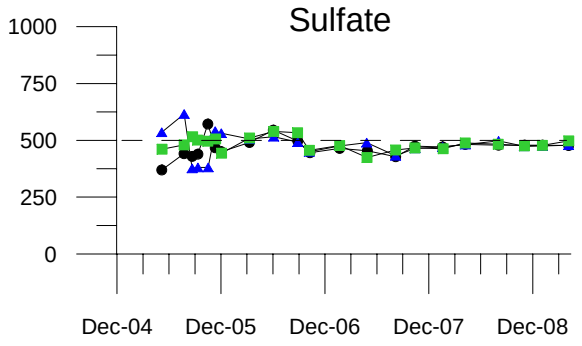


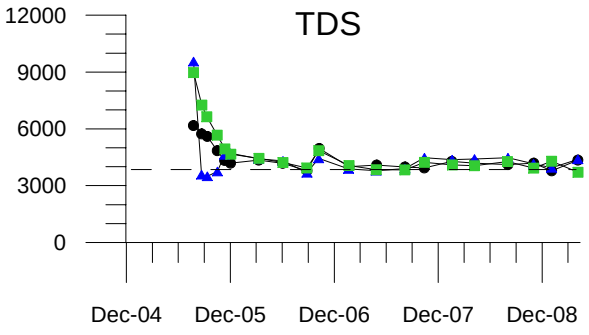


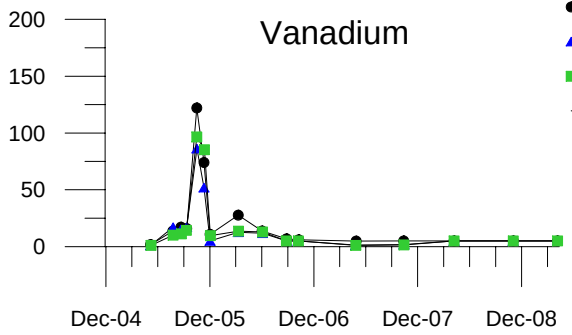


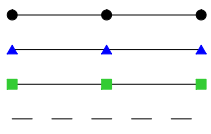








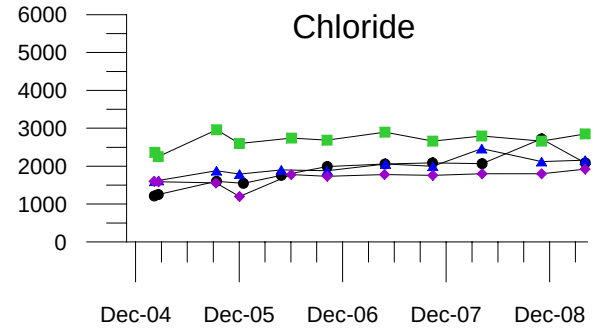


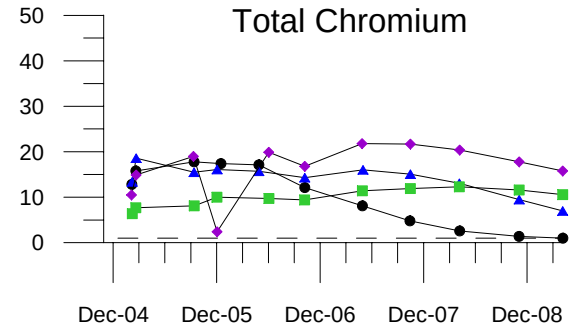


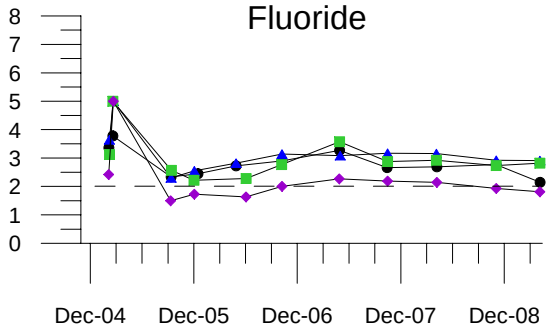
Cr(T), Cr(VI), molybdenum, and vanadium concentration units in µg/L. Other analyte concentration units in mg/L. Treated water only on select analytes.

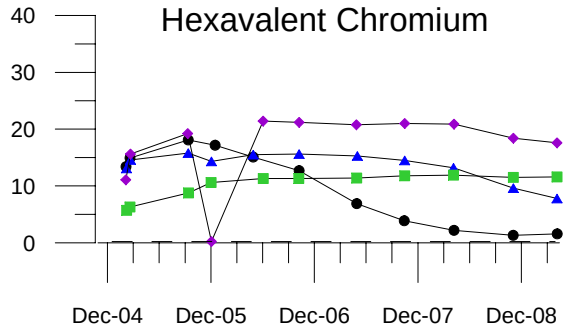
FIGURE 3C
OW-1D, OW-2D, OW-5D
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

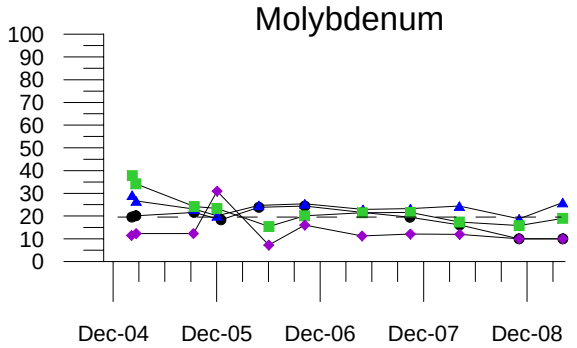
CH2MHILL

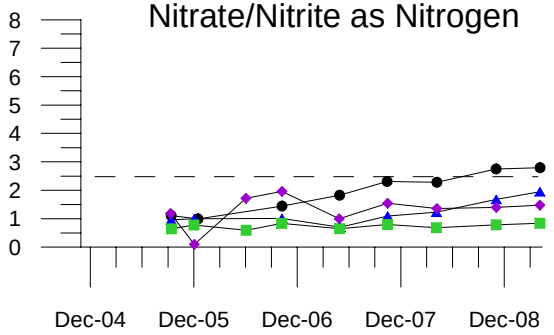


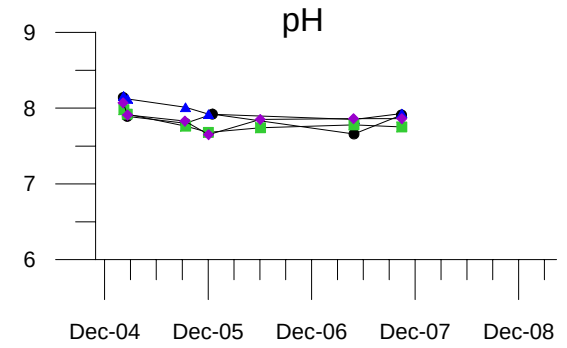


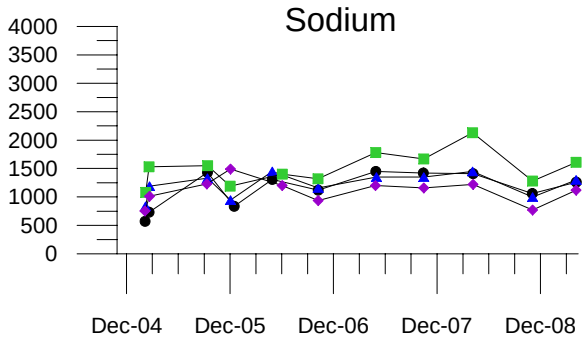


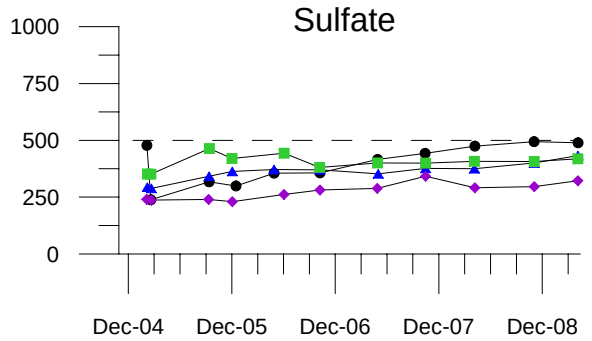


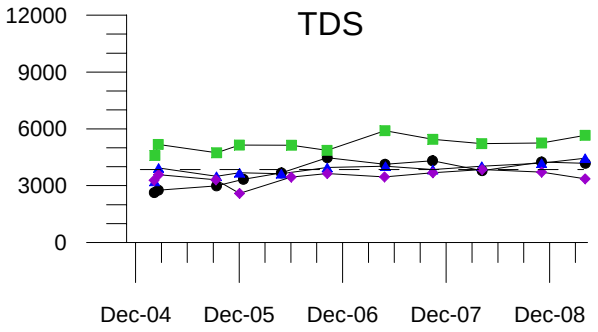


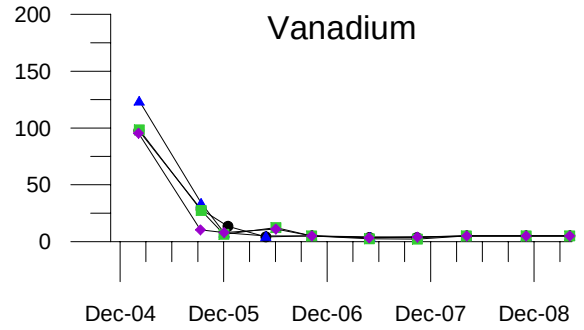


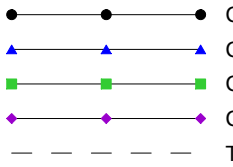








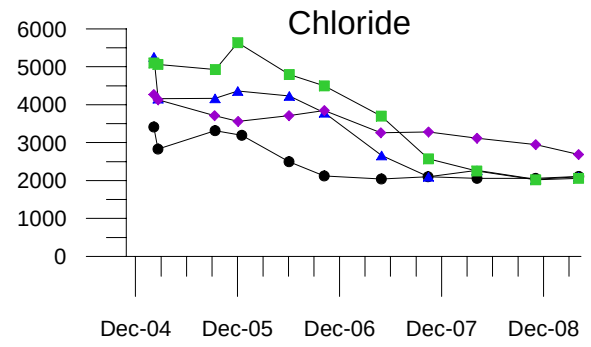


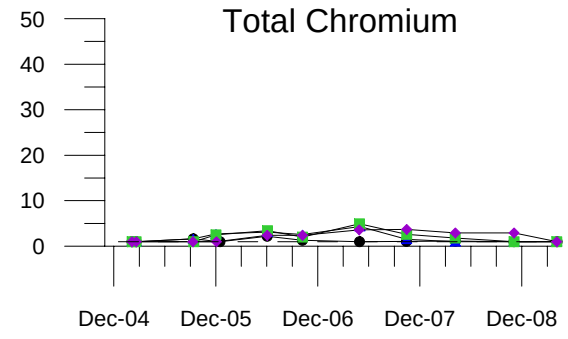


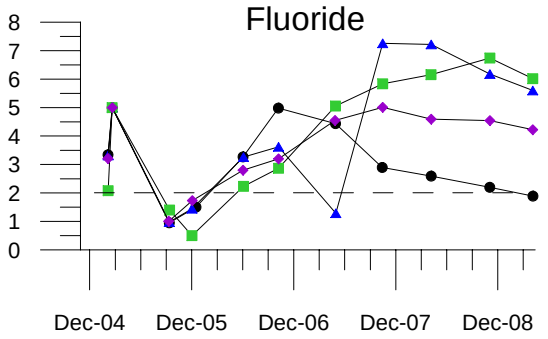
Cr(T), Cr(VI), molybdenum, and vanadium concentration units in µg/L. Other analyte concentration units in mg/L. Treated water only on select analytes.

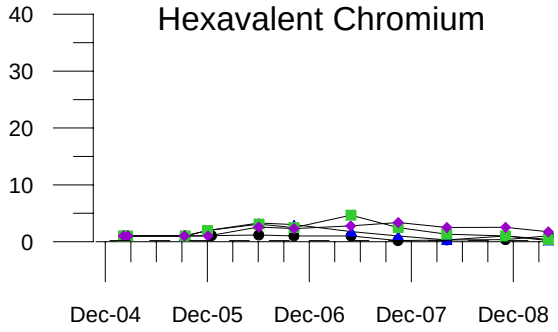
FIGURE 3D
CW-1M, CW-2M, CW-3M, CW-4M
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

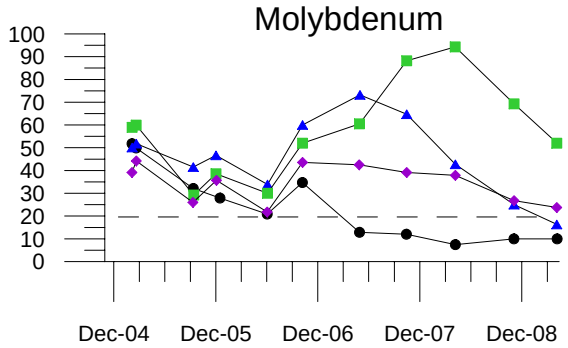
CH2MHILL

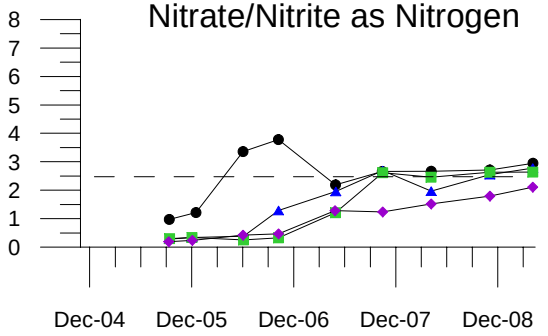


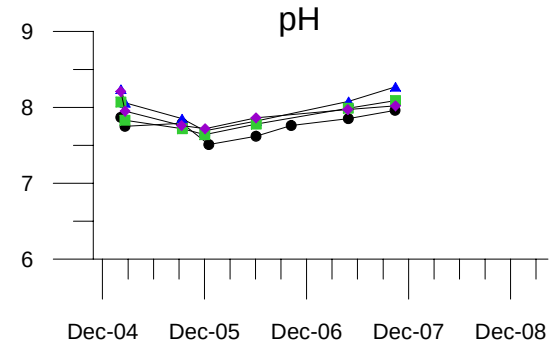


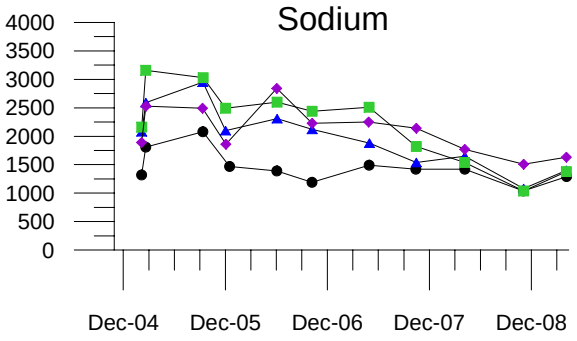


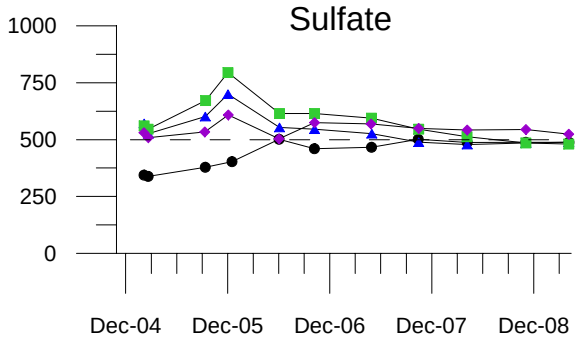


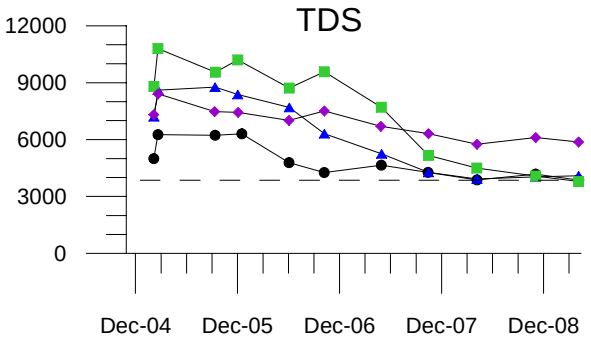


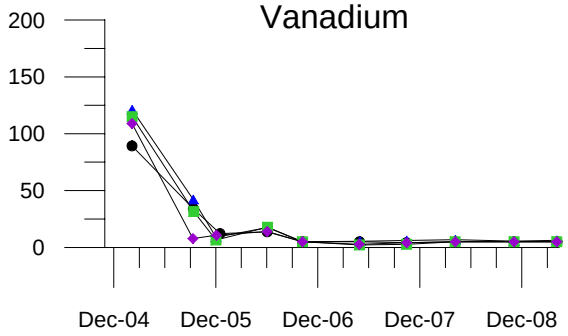


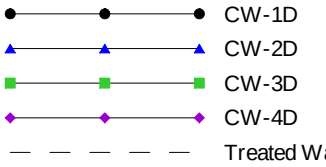








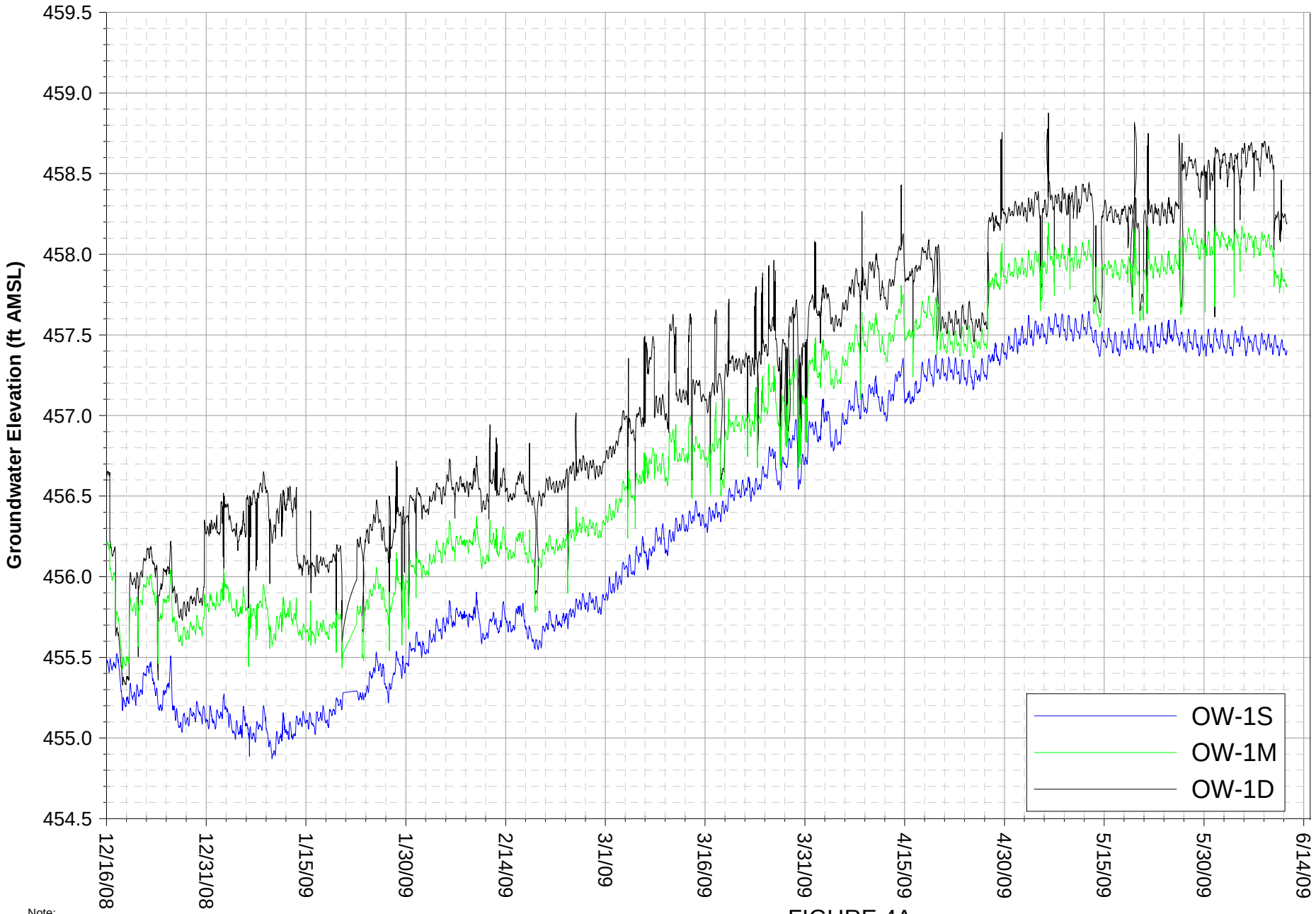




Cr(T), Cr(VI), molybdenum, and vanadium concentration units in µg/L. Other analyte concentration units in mg/L. Treated water only on select analytes.

FIGURE 3E
CW-1D, CW-2D, CW-3D, CW-4D
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

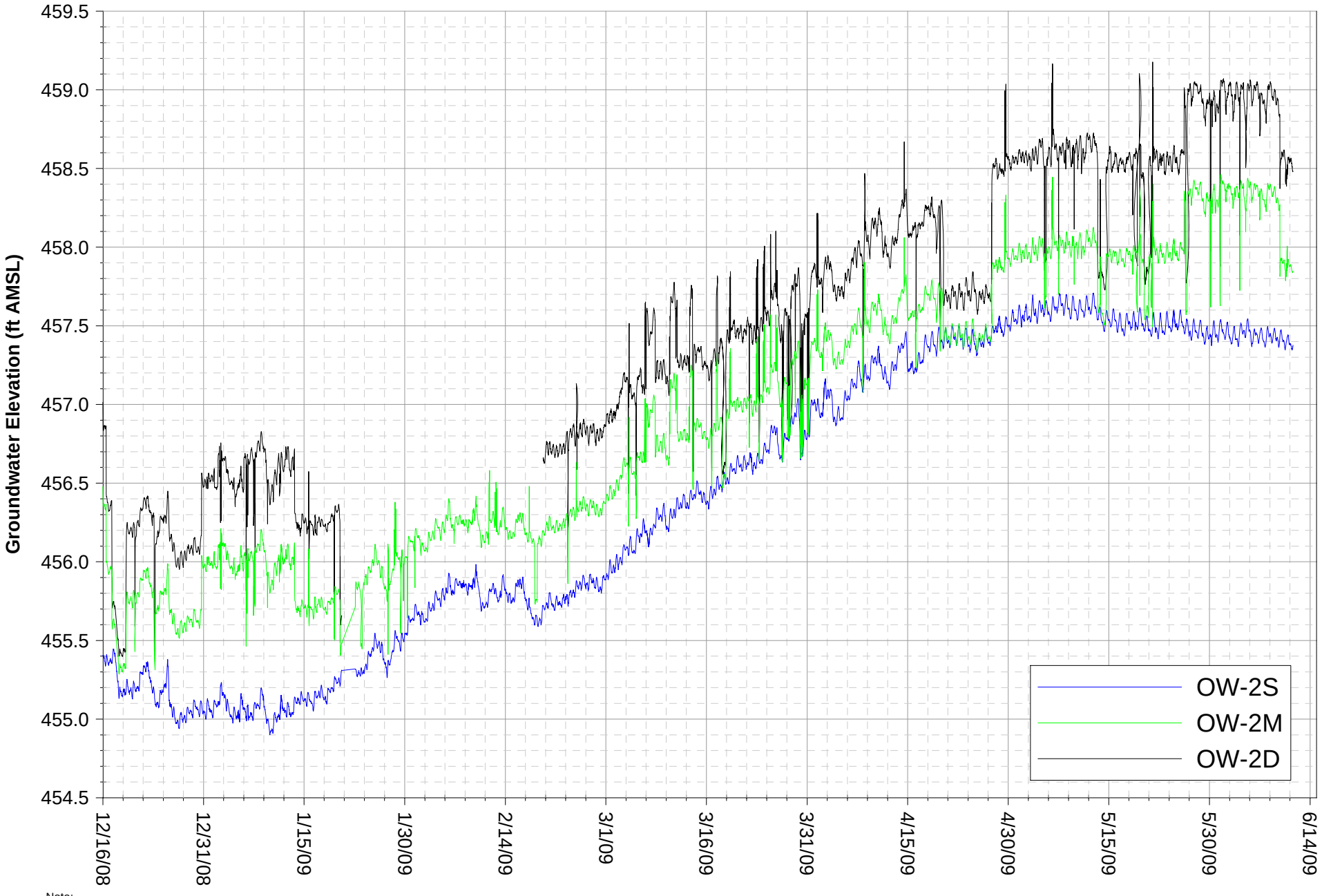
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.

FIGURE 4A
OW-1 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

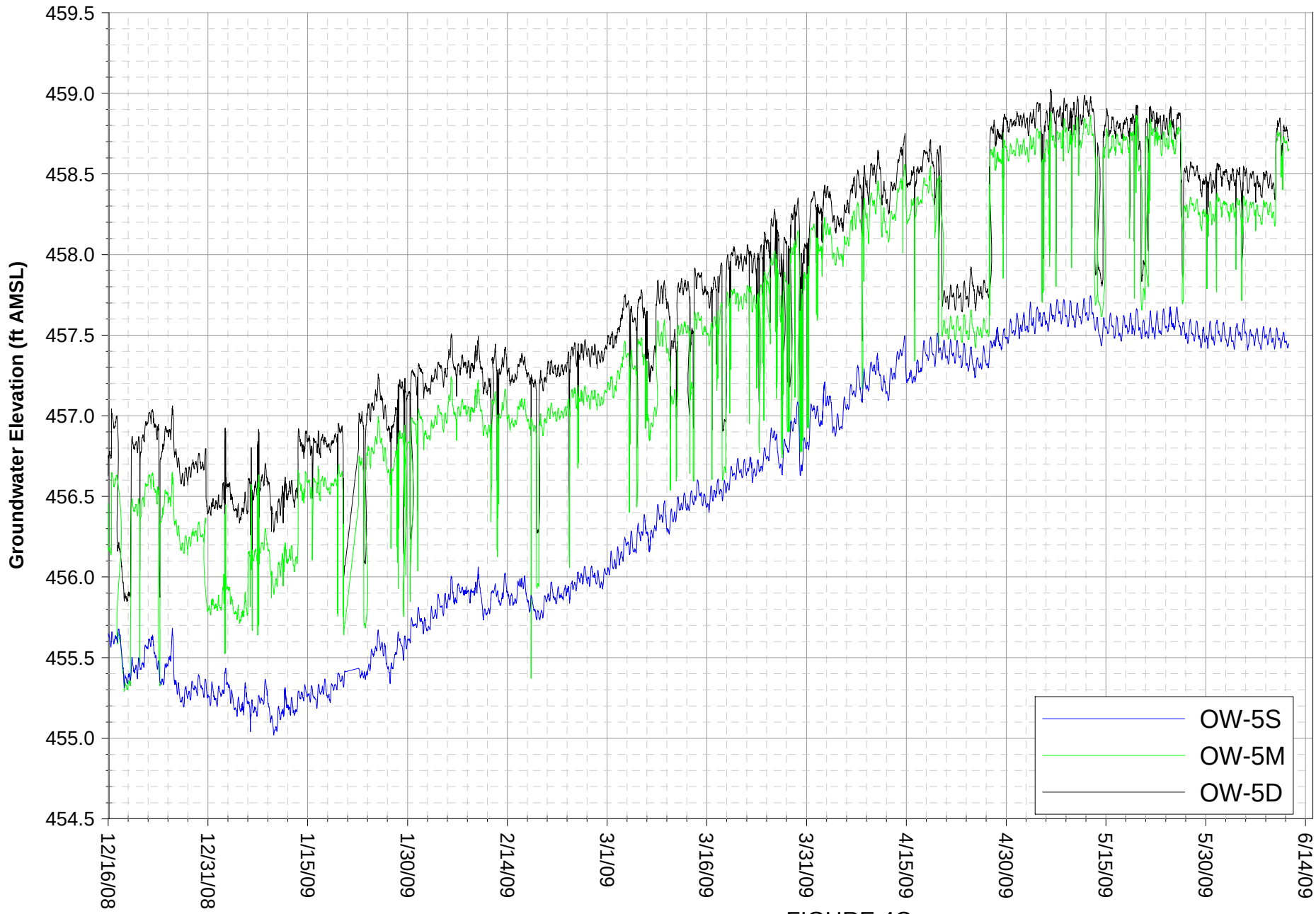
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.
OW-2D data unavailable from January 20, 2009 until February 19, 2008 due to transducer failure.

FIGURE 4B
OW-2 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

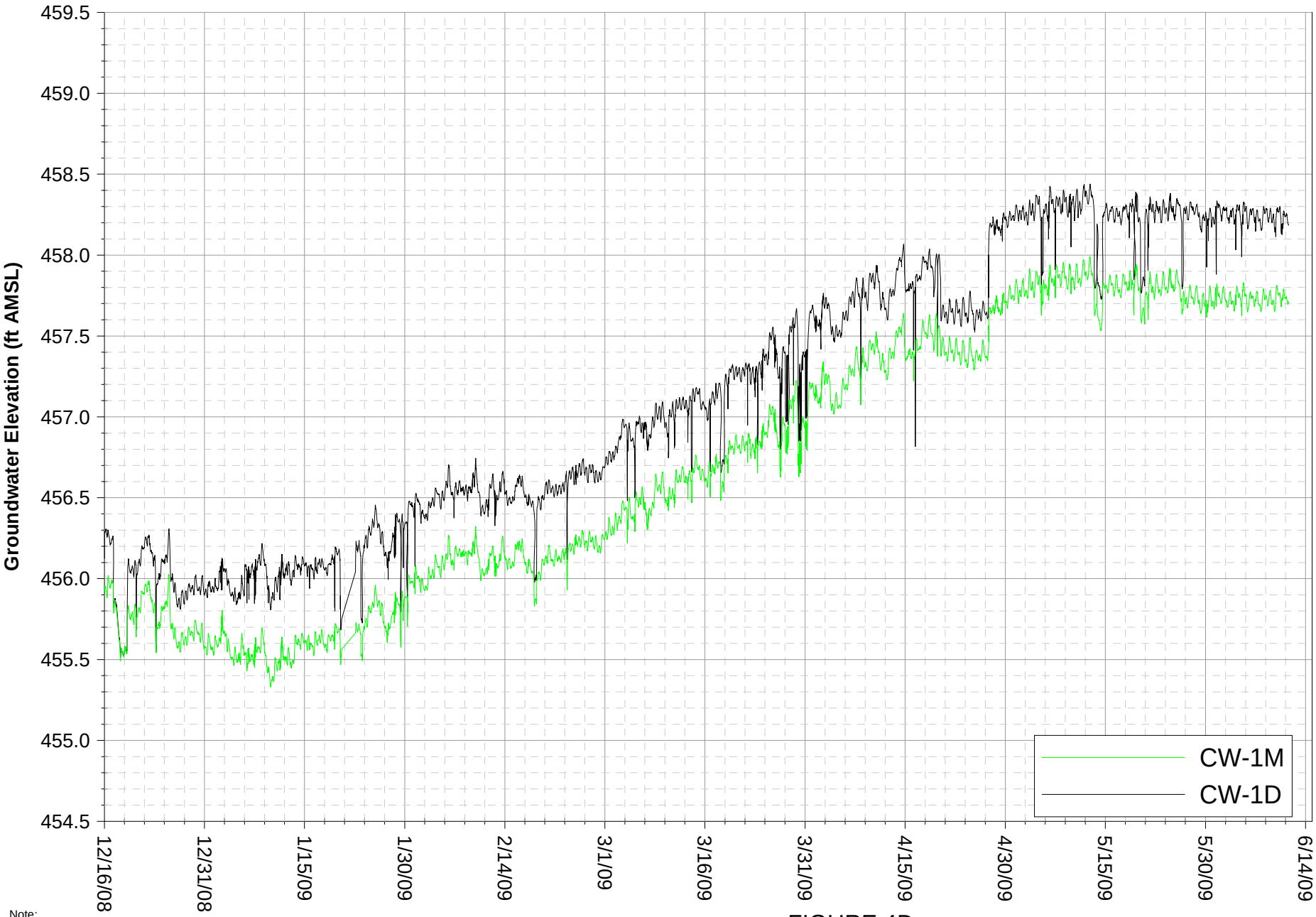
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.

FIGURE 4C
OW-5 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

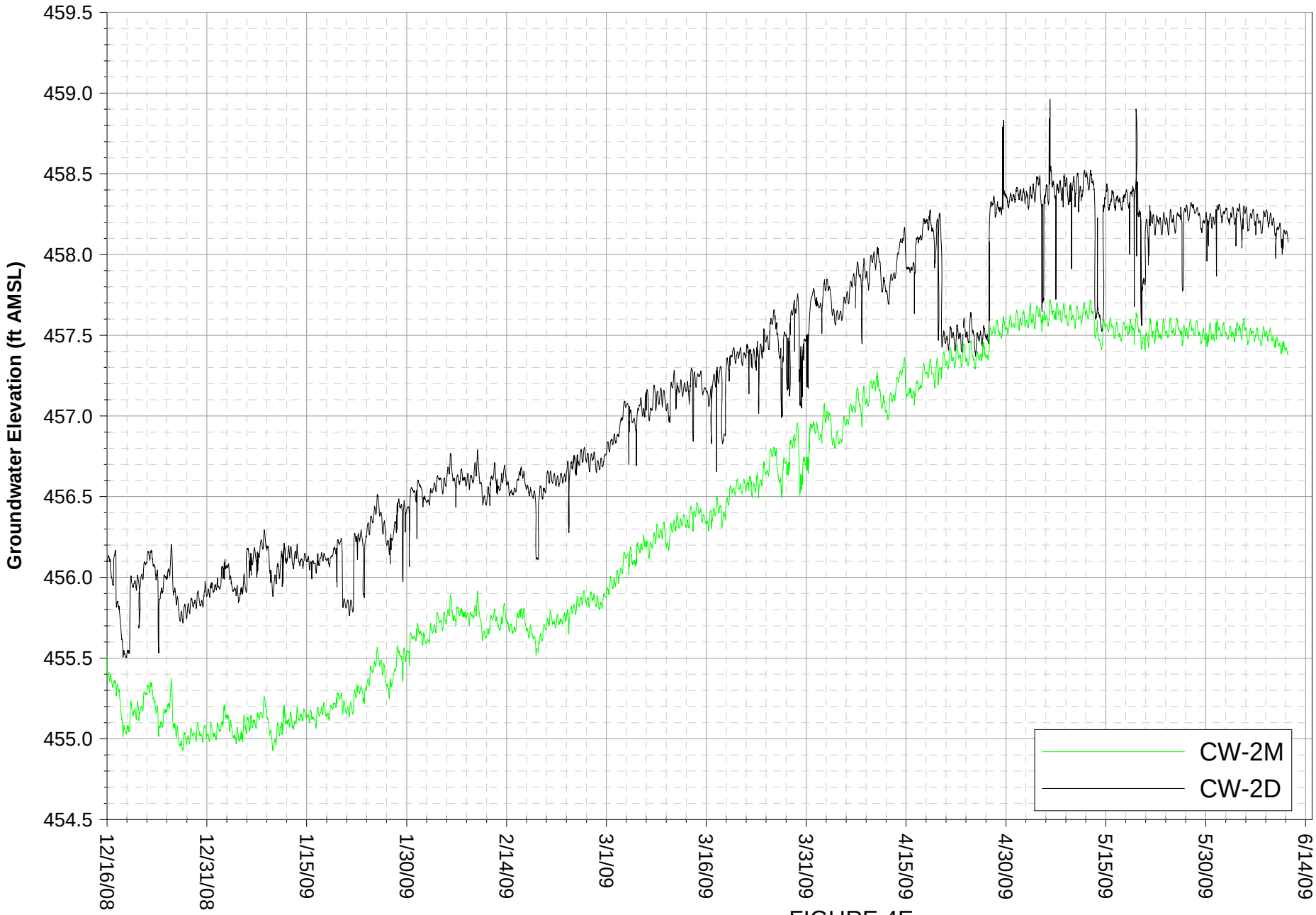
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline..

FIGURE 4D
CW-1 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

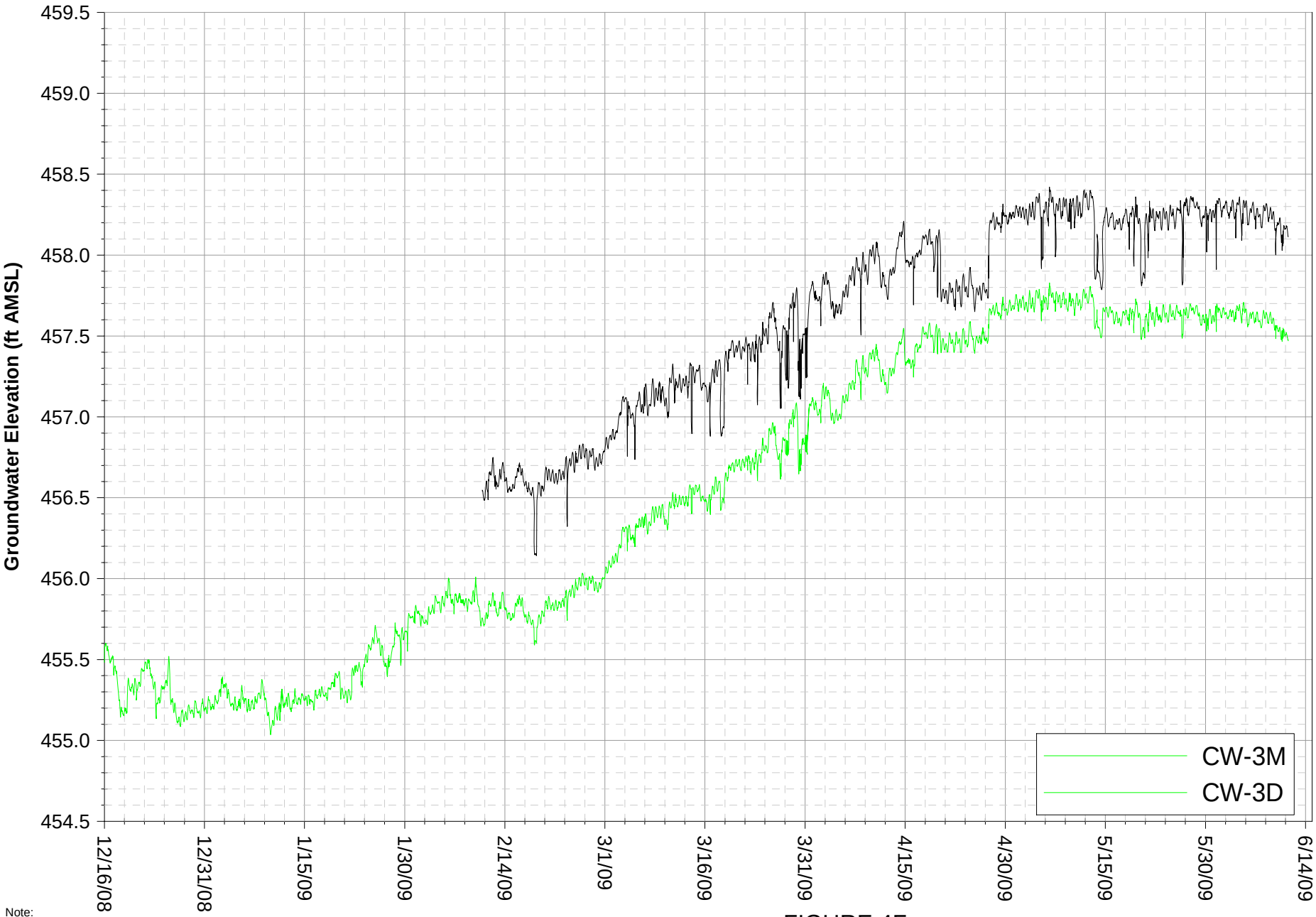
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.

FIGURE 4E
CW-2 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

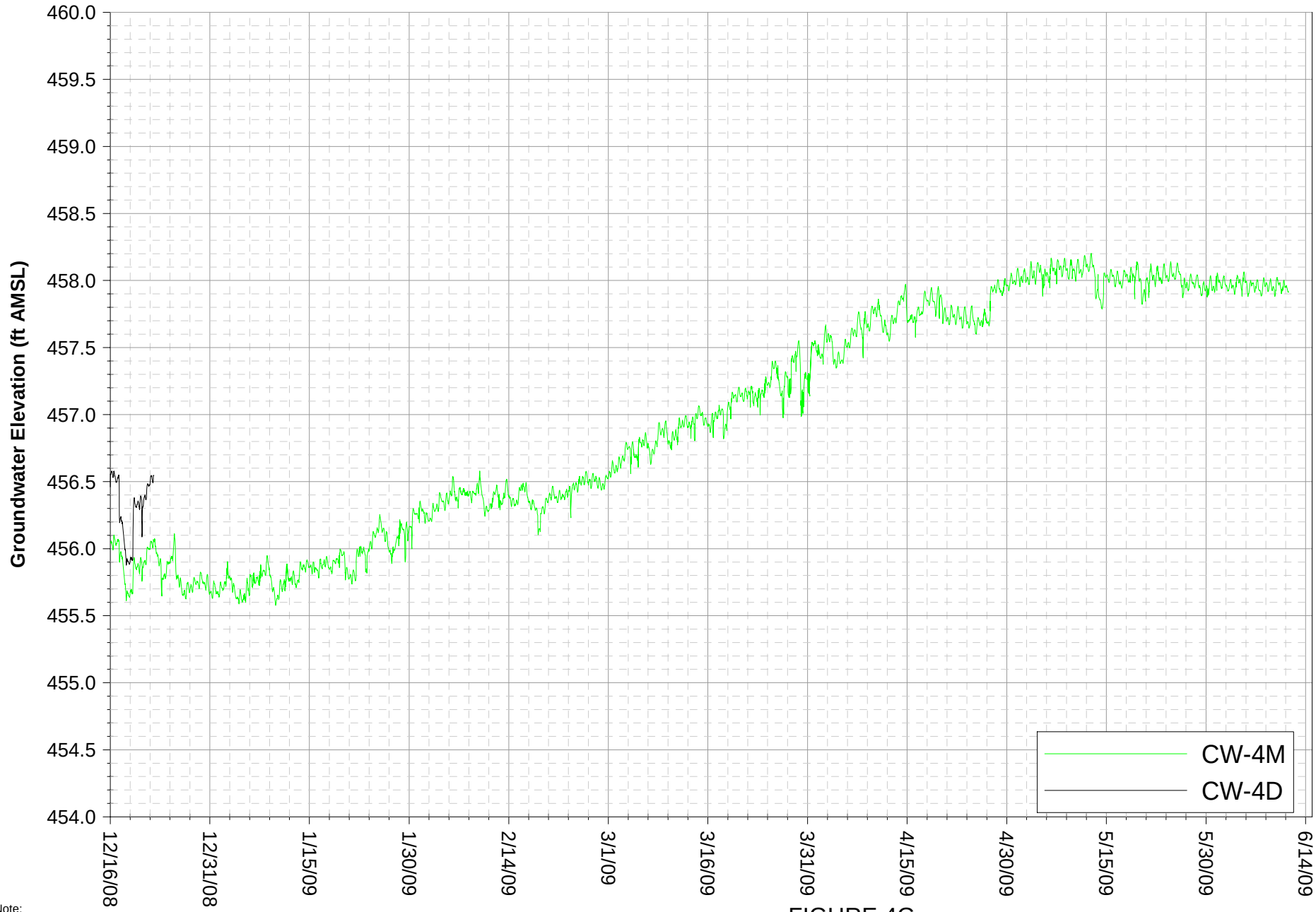
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.
OW-3D data unavailable from December 16, 2008 to February 10, 2009 due to transducer failure.

FIGURE 4F
CW-3 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

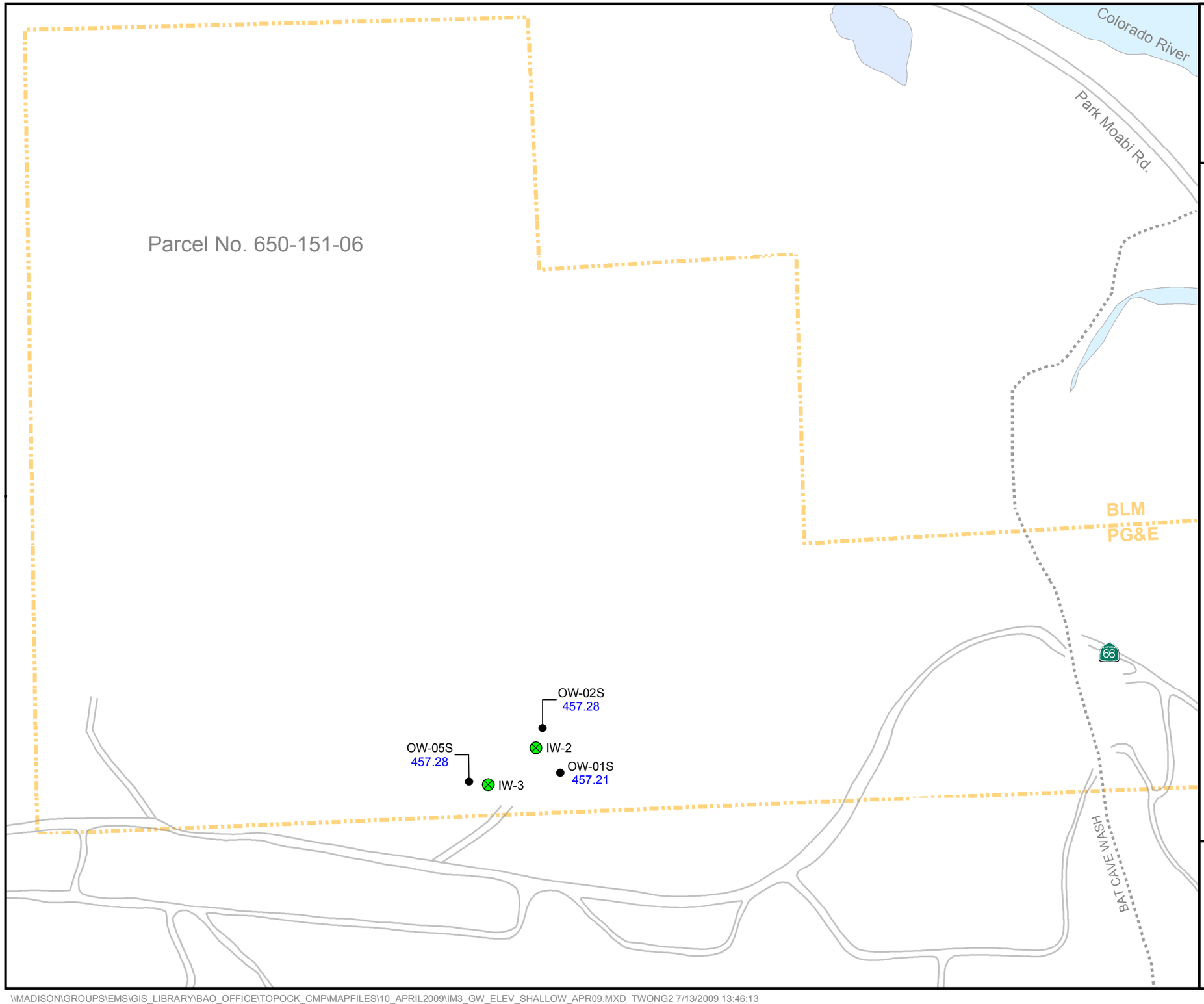
CH2MHILL



Note:
Data subject to review.
Refer to Table 1 for injection well status.
Routine and scheduled maintenance occurred 12/18/08, 1/21/09, and from April 20-27, 2009, at which time both wells were offline.
CW-4D data unavailable from December 22, 2008 until June 11, 2009 due to transducer failure and malfunction.

FIGURE 4G
CW-4 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL



N

0 250 500 Feet

1 inch = 250 feet

California State Plane NAD83 Zone 5 US Feet

LEGEND

- Groundwater Monitoring, Compliance, and Observation Well
- IM-3 Injection Well

Groundwater Elevations for Shallow Wells in IM-3 Injection Area

OW-02S 457.28 — Salinity and temperature adjusted groundwater head elevation in feet above mean sea level (MSL)

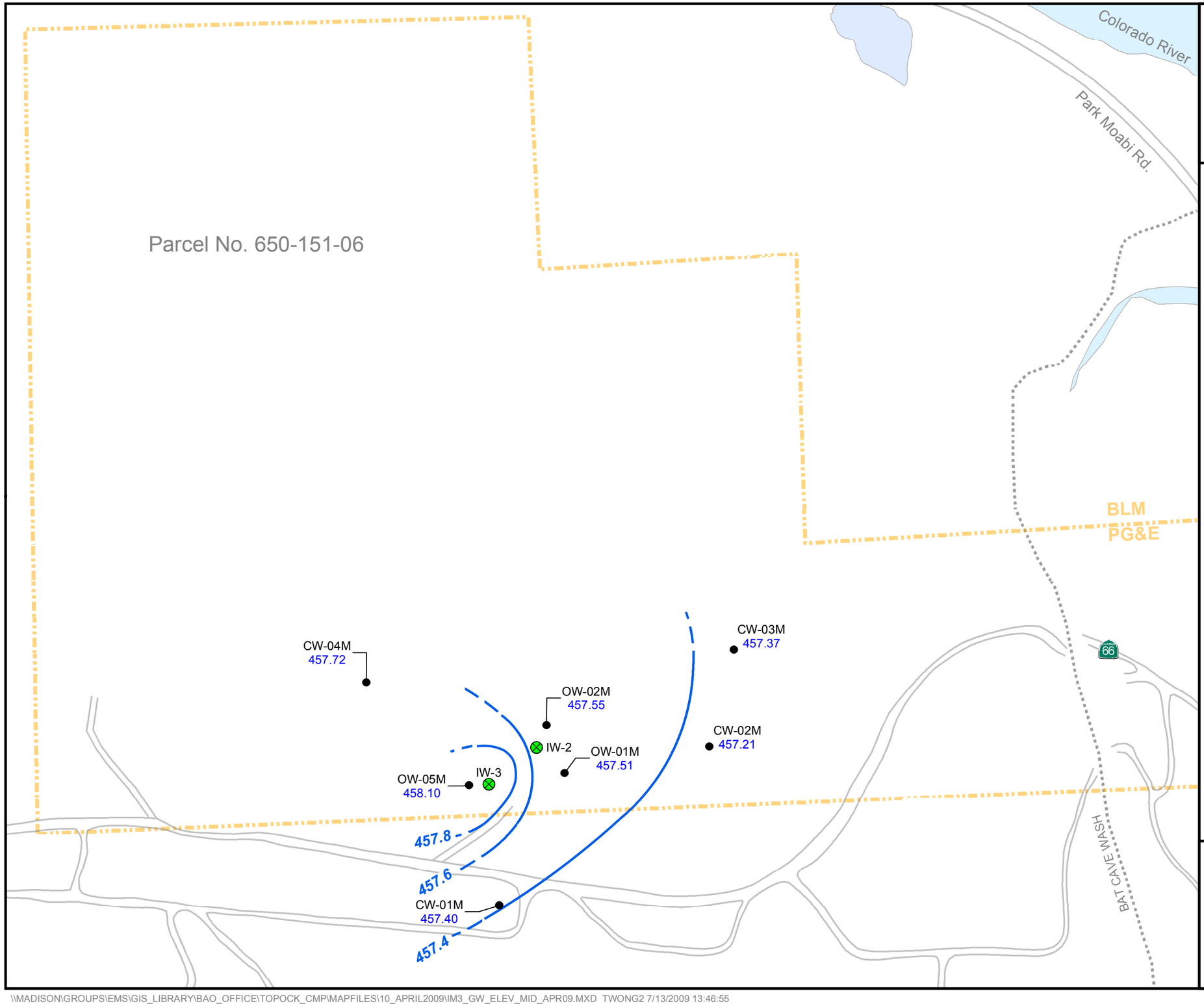
Notes:
Data posted and contoured from monthly average heads measured with transducers at 30 minute intervals.

FIGURE 5A
AVERAGE GROUNDWATER ELEVATIONS FOR SHALLOW WELLS APRIL 1 TO APRIL 30, 2009

IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\BAO_OFFICE\TOPOCK_CMP\MAPFILES\10_APRIL2009\IM3_GW_ELEV_SHALLOW_APR09.MXD TWONG2 7/13/2009 13:46:13



N

0 250 500 Feet

1 inch = 250 feet

California State Plane NAD83 Zone 5 US Feet

LEGEND

- Groundwater Monitoring, Compliance, and Observation Well
- IM-3 Injection Well

Groundwater Elevations for Mid-depth Wells in IM-3 Injection Area

- OW-02M 457.55 — Salinity and temperature adjusted groundwater head elevation in feet above mean sea level (MSL)
- Groundwater elevation contour in feet above MSL (0.2 foot interval), dashed where inferred

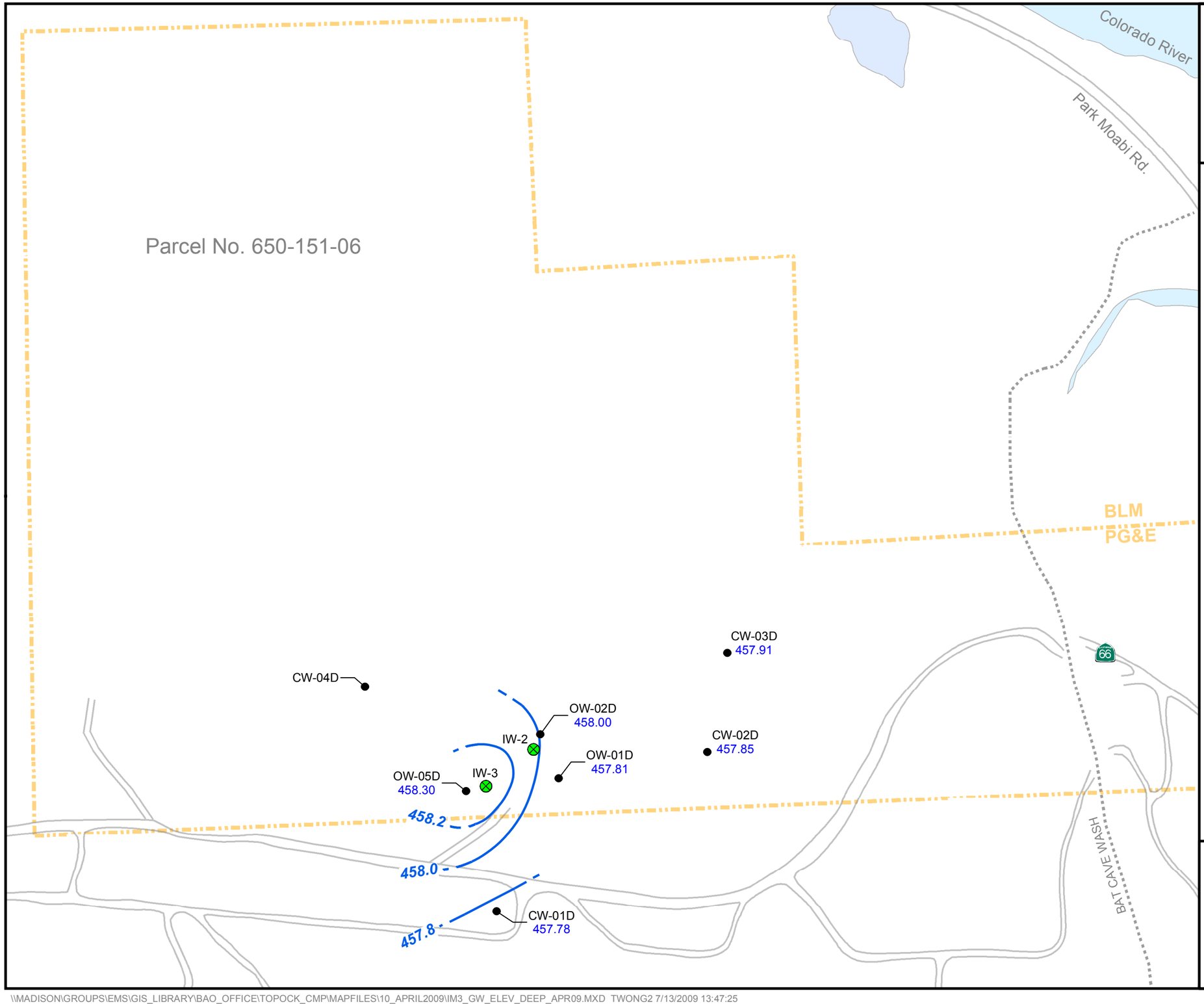
Notes:
Data posted and contoured from monthly average heads measured with transducers at 30 minute intervals.

FIGURE 5B
AVERAGE GROUNDWATER ELEVATION CONTOURS FOR MID-DEPTH WELLS APRIL 1 TO APRIL 30, 2009

IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\BAO_OFFICE\TOPOCK_CMP\MAPFILES\10_APRIL2009\IM3_GW_ELEV_MID_APR09.MXD TWONG2 7/13/2009 13:46:55



N

0 250 500 Feet

1 inch = 250 feet

California State Plane NAD83 Zone 5 US Feet

LEGEND

- Groundwater Monitoring, Compliance, and Observation Well
- IM-3 Injection Well

Groundwater Elevations for Deep Wells in IM-3 Injection Area

- OW-05D 458.30 — Salinity and temperature adjusted groundwater head elevation in feet above mean sea level (MSL)
- Groundwater elevation contour in feet above MSL (0.2 foot interval), dashed where inferred

Notes:
Data posted and contoured from monthly average heads measured with tranducers at 30 minute intervals. (CW-04D) was excluded from contouring due to transducer failure and malfunction.

FIGURE 5C
AVERAGE GROUNDWATER ELEVATION CONTOURS FOR DEEP WELLS APRIL 1 TO APRIL 30, 2009

IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\BAO_OFFICE\TOPOCK_CMP\MAPFILES\10_APRIL2009\IM3_GW_ELEV_DEEP_APR09.MXD TWONG2 7/13/2009 13:47:25

Appendix A
Laboratory Reports, Second Quarter 2009

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

April 29, 2009

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK 2009-CMP-020, GROUNDWATER MONITORING PROJECT, TLI NO.: 982696

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2009-CMP-020 groundwater-monitoring project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data, and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data are under Section 5.

The samples were received and delivered with the chain of custody on April 8, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or non-conformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

fo - Sean Canl
Mona Nassimi
Manager, Analytical Services

K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.
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www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2320B	Alkalinity	Iordan Stavrev
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 D	Ammonia	Iordan Stavrev
EPA 200.7	Metals by ICP	Hope Trinidad / Kris Collins / Daniel Kang
EPA 200.8	Metals by ICP/MS	Daniel Kang / Linda Saetern
EPA 245.1	Mercury	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Analyzed: April 9, 2009
Analytical Batch: 04CrH09D

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	08:40	µg/L	1.05	0.20	0.20
982696-2	CW-02M-020	11:32	08:50	µg/L	1.05	0.20	7.80
982696-3	CW-03D-020	15:00	09:11	µg/L	1.05	0.20	0.43
982696-4	CW-03M-020	13:14	11:26	µg/L	5.25	1.05	11.6
982696-5	CW-04D-020	18:17	11:37	µg/L	5.25	1.05	1.76
982696-6	CW-04M-020	16:50	11:16	µg/L	1.05	0.20	17.6
982696-7	OW-87-020	15:41	12:50	µg/L	1.05	0.20	ND
982696-8	OW-90-020	09:16	13:43	µg/L	5.25	1.05	11.4
982696-9	CW-01D-020	09:12	13:53	µg/L	5.25	1.05	ND
982696-10	CW-01M-020	10:08	15:17	µg/L	5.25	1.05	1.56
982696-11	0W-02D-020	12:12	15:28	µg/L	5.25	1.05	ND
982696-12	0W-02M-020	11:03	15:38	µg/L	5.25	1.05	1.35

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Card
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Laboratory No.: 982696
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Collected: April 7 - 8, 2009
Received: April 8, 2009
Analyzed: April 9, 2009
Analytical Batch: 04CrH09D

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-4	11.6	11.6	0.00%	< 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696-1	0.20	1.06	1.00	1.06	1.26	1.26	100%	90-110%	Yes
MS	982696-2	7.80	1.06	10.0	10.6	18.2	18.4	98.1%	90-110%	Yes
MS	982696-3	0.43	1.06	1.00	1.06	1.50	1.49	101%	90-110%	Yes
MS	982696-4	11.6	5.25	5.00	26.3	37.0	37.9	96.8%	90-110%	Yes
MS	982696-5	1.76	5.25	1.00	5.25	6.92	7.01	98.3%	90-110%	Yes
MS	982696-6	17.6	1.08	20.0	21.6	38.4	39.2	96.3%	90-110%	Yes
MS	982696-7	0.00	1.06	1.00	1.06	1.05	1.06	99.1%	90-110%	Yes
MS	982696-8	11.4	5.25	5.00	26.3	36.8	37.7	96.8%	90-110%	Yes
MS	982696-9	0.618	5.25	1.00	5.25	5.78	5.87	98.3%	90-110%	Yes
MS	982696-10	1.56	5.25	1.00	5.25	6.88	6.81	101%	90-110%	Yes
MS	982696-11	0.766	5.25	1.00	5.25	5.91	6.02	98.0%	90-110%	Yes
MS	982696-12	1.35	5.25	1.00	5.25	6.46	6.60	97.3%	90-110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Analyzed: April 9, 2009
Analytical Batch: 04CrH09D

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

QA/QC Summary

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
BLANK	ND	<0.200	---	<0.200	Yes
MRCCS	5.10	5.00	102%	90% - 110%	Yes
MRCVS#1	10.1	10.0	101%	95% - 105%	Yes
MRCVS#2	9.91	10.0	99.1%	95% - 105%	Yes
MRCVS#3	9.80	10.0	98.0%	95% - 105%	Yes
MRCVS#4	9.96	10.0	99.6%	95% - 105%	Yes
LCS	5.09	5.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Card
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Analyzed: April 10, 2009
Analytical Batch: 04CrH09E

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-13	0W-02S-020	13:23	08:20	µg/L	5.25	1.05	30.5
982696-14	0W-88-020	13:40	08:31	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-13	30.5	30.5	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696-13	30.5	5.25	10.0	52.5	83.0	83.0	100%	90-110%	Yes
MS	982696-14	0.048	1.06	1.00	1.06	1.08	1.11	97.4%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
BLANK	ND	<0.200	---	<0.200	Yes
MRCCS	5.08	5.00	102%	90% - 110%	Yes
MRCVS#1	10.1	10.0	101%	95% - 105%	Yes
MRCVS#2	10.0	10.0	100%	95% - 105%	Yes
LCS	5.08	5.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
Analytical Services

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Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 9, 2009
Analytical Batch: 04EC09E

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	MDL	DF	RL	Results
982696-1	CW-02D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6880
982696-2	CW-02M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6710
982696-3	CW-03D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6800
982696-4	CW-03M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	8520
982696-5	CW-04D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	8350
982696-6	CW-04M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6040
982696-8	OW-90-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	8550
982696-9	CW-01D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6810
982696-10	CW-01M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6970
982696-11	0W-02D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6760
982696-12	0W-02M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6850
982696-13	0W-02S-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	1700

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-8	8550	8560	0.12%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	695	706	98.4%	90% - 110%	Yes
CVS#1	978	990	98.8%	90% - 110%	Yes
CVS#2	979	990	98.9%	90% - 110%	Yes
LCS	695	706	98.4%	90% - 110%	Yes
LCSD	695	706	98.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04TDS09D

Investigation: **Total Dissolved Solids by SM 2540C**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Units	Method	RL	Results
982696-1	CW-02D-020	mg/L	SM 2540C	250	4090
982696-2	CW-02M-020	mg/L	SM 2540C	250	4450
982696-3	CW-03D-020	mg/L	SM 2540C	250	3790
982696-4	CW-03M-020	mg/L	SM 2540C	250	5660
982696-5	CW-04D-020	mg/L	SM 2540C	250	5870
982696-6	CW-04M-020	mg/L	SM 2540C	125	3360
982696-8	OW-90-020	mg/L	SM 2540C	250	4880
982696-9	CW-01D-020	mg/L	SM 2540C	250	3860
982696-10	CW-01M-020	mg/L	SM 2540C	250	4180
982696-11	0W-02D-020	mg/L	SM 2540C	250	4390
982696-12	0W-02M-020	mg/L	SM 2540C	250	4160
982696-13	0W-02S-020	mg/L	SM 2540C	50.0	1080

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-11	4390	4430	0.45%	< 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<10.0	---	<10.0	Yes
LCS 1	496	500	99.2%	90% - 110%	Yes
LCS 2	500	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
RL: Reporting Limit.

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REPORT

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Attention: Shawn Duffy

Laboratory No.: 982696

Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 9, 2009
Analytical Batch: 04ALK09B

Investigation:

Alkalinity by SM 2320B

Analytical Results Total Alkalinity, Bicarbonate, Carbonate

TLI I.D.	Field I.D.	Units	RL	Total Alkalinity	Bicarbonate	Carbonate
982696-1	CW-02D-020	mg/L	5.00	57.0	57.0	ND
982696-2	CW-02M-020	mg/L	5.00	50.0	50.0	ND
982696-3	CW-03D-020	mg/L	5.00	59.0	59.0	ND
982696-4	CW-03M-020	mg/L	5.00	47.0	47.0	ND
982696-5	CW-04D-020	mg/L	5.00	55.0	55.0	ND
982696-6	CW-04M-020	mg/L	5.00	54.0	54.0	ND
982696-8	OW-90-020	mg/L	5.00	48.0	48.0	ND
982696-9	CW-01D-020	mg/L	50.0	72.0	72.0	ND
982696-10	CW-01M-020	mg/L	5.00	70.0	70.0	ND
982696-11	0W-02D-020	mg/L	5.00	62.0	62.0	ND
982696-12	0W-02M-020	mg/L	5.00	78.0	78.0	ND
982696-13	0W-02S-020	mg/L	5.00	101	101	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-11	62.0	63.0	1.60%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696-12	78.0	1.00	100	100	181	178	103%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<5.00	---	<5.00	Yes
LCS	99.0	100	99.0%	90% - 110%	Yes

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Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 9, 2009
Analytical Batch: 04TUC09F

Investigation: **Turbidity by Method SM 2130B**

Analytical Results Turbidity

TLI I.D.	Field I.D.	Sample Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	NTU	1.00	0.100	0.208
982696-2	CW-02M-020	11:32	NTU	1.00	0.100	ND
982696-3	CW-03D-020	15:00	NTU	1.00	0.100	ND
982696-4	CW-03M-020	13:14	NTU	1.00	0.100	0.132
982696-5	CW-04D-020	18:17	NTU	1.00	0.100	0.109
982696-6	CW-04M-020	16:50	NTU	1.00	0.100	0.133
982696-8	OW-90-020	09:16	NTU	1.00	0.100	0.129
982696-9	CW-01D-020	09:12	NTU	1.00	0.100	ND
982696-10	CW-01M-020	10:08	NTU	1.00	0.100	0.135
982696-11	0W-02D-020	12:12	NTU	1.00	0.100	0.124
982696-12	0W-02M-020	11:03	NTU	1.00	0.100	ND
982696-13	0W-02S-020	13:23	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982687	ND	ND	0.00%	< 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	—	<0.100	Yes
LCS	8.15	8.00	102%	90% - 110%	Yes
LCS	8.02	8.00	100%	90% - 110%	Yes
LCS	7.79	8.00	97.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected),
DF: Dilution Factor

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REPORT

Client: E2 Consulting Engineers, Inc.
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Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04NH3-E09D

Investigation: **Ammonia as N by Method SM 4500-NH3 D**

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-2	CW-02M-020	11:32	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-3	CW-03D-020	15:00	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-4	CW-03M-020	13:14	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-5	CW-04D-020	18:17	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-6	CW-04M-020	16:50	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-8	OW-90-020	09:16	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-9	CW-01D-020	09:12	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-10	CW-01M-020	10:08	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-11	0W-02D-020	12:12	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-12	0W-02M-020	11:03	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982696-13	0W-02S-020	13:23	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-6	ND	ND	0.0%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696-6	0.00	1.00	6.00	6.00	5.89	6.00	98.2%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	5.91	6.00	98.5%	90% - 110%	Yes
MRCVS#1	5.53	6.00	92%	90% - 110%	Yes
MRCVS#2	5.80	6.00	96.7%	90% - 110%	Yes
LCS	11.0	10.0	110%	90% - 110%	Yes

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DF: Dilution Factor.

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P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Fluoride by Ion Chromatography using EPA 300.0**

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	10:07	mg/L	5.00	0.500	5.60
982696-2	CW-02M-020	11:32	10:18	mg/L	5.00	0.500	2.91
982696-3	CW-03D-020	15:00	10:30	mg/L	5.00	0.500	6.02
982696-4	CW-03M-020	13:14	10:41	mg/L	5.00	0.500	2.82
982696-5	CW-04D-020	18:17	10:52	mg/L	5.00	0.500	4.22
982696-6	CW-04M-020	16:50	11:04	mg/L	5.00	0.500	1.81
982696-8	OW-90-020	09:16	11:15	mg/L	5.00	0.500	2.72
982696-9	CW-01D-020	09:12	12:58	mg/L	5.00	0.500	1.89
982696-10	CW-01M-020	10:08	13:09	mg/L	5.00	0.500	2.14
982696-11	0W-02D-020	12:12	13:21	mg/L	5.00	0.500	2.09
982696-12	0W-02M-020	11:03	13:32	mg/L	5.00	0.500	1.90
982696-13	0W-02S-020	13:23	14:29	mg/L	5.00	0.500	4.68

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Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Fluoride by Ion Chromatography using EPA 300.0**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696-6	1.81	1.95	7.4%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696-6	1.81	5.00	4.00	20.0	22.8	21.8	105%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.06	4.00	102%	90% - 110%	Yes
MRCVS#1	3.11	3.00	104%	90% - 110%	Yes
MRCVS#2	3.13	3.00	104%	90% - 110%	Yes
MRCVS#3	3.13	3.00	104%	90% - 110%	Yes
MRCVS#4	3.12	3.00	104%	90% - 110%	Yes
MRCVS#5	3.14	3.00	105%	90% - 110%	Yes
MRCVS#6	3.15	3.00	105%	90% - 110%	Yes
LCS	4.07	4.00	102%	90% - 110%	Yes

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Project Name: PG&E Topock Project
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Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Chloride by Ion Chromatography using EPA 300.0**

Analytical Results Chloride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	14:41	mg/L	500	100	2100
982696-2	CW-02M-020	11:32	14:52	mg/L	500	100	2160
982696-3	CW-03D-020	15:00	15:03	mg/L	500	100	2060
982696-4	CW-03M-020	13:14	15:15	mg/L	500	100	2850
982696-5	CW-04D-020	18:17	15:26	mg/L	500	100	2690
982696-6	CW-04M-020	16:50	15:38	mg/L	500	100	1920
982696-8	OW-90-020	09:16	15:49	mg/L	500	100	2820
982696-9	CW-01D-020	09:12	16:23	mg/L	500	100	2110
982696-10	CW-01M-020	10:08	16:35	mg/L	500	100	2090
982696-11	0W-02D-020	12:12	16:46	mg/L	500	100	2040
982696-12	0W-02M-020	11:03	16:58	mg/L	500	100	2060
982696-13	0W-02S-020	13:23	17:09	mg/L	100	20.0	412

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

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Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Chloride by Ion Chromatography using EPA 300.0**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982714	136	135	0.74%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982714	136	50.0	4.00	200	342	336	103%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.00	4.00	100%	90% - 110%	Yes
MRCVS#1	2.98	3.00	99.3%	90% - 110%	Yes
MRCVS#2	2.98	3.00	99.3%	90% - 110%	Yes
MRCVS#3	2.93	3.00	97.7%	90% - 110%	Yes
MRCVS#4	2.95	3.00	98.3%	90% - 110%	Yes
LCS	4.02	4.00	101%	90% - 110%	Yes

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Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Sulfate by Ion Chromatography using EPA 300.0**

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	17:20	mg/L	50.0	25.0	489
982696-2	CW-02M-020	11:32	17:32	mg/L	50.0	25.0	433
982696-3	CW-03D-020	15:00	17:43	mg/L	50.0	25.0	480
982696-4	CW-03M-020	13:14	17:55	mg/L	50.0	25.0	419
982696-5	CW-04D-020	18:17	18:06	mg/L	50.0	25.0	524
982696-6	CW-04M-020	16:50	18:40	mg/L	50.0	25.0	322
982696-8	OW-90-020	09:16	18:52	mg/L	50.0	25.0	417
982696-9	CW-01D-020	09:12	19:03	mg/L	50.0	25.0	488
982696-10	CW-01M-020	10:08	19:14	mg/L	50.0	25.0	489
982696-11	0W-02D-020	12:12	19:26	mg/L	50.0	25.0	479
982696-12	0W-02M-020	11:03	19:37	mg/L	50.0	25.0	479
982696-13	0W-02S-020	13:23	19:49	mg/L	10.0	5.00	114

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Card
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 10, 2009
Analytical Batch: 04AN09H

Investigation: **Sulfate by Ion Chromatography using EPA 300.0**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982714	152	154	1.31%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982714	152	50.0	4.00	200	356	352	102%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCCS	20.6	20.0	103%	90% - 110%	Yes
MRCVS#1	15.1	15.0	101%	90% - 110%	Yes
MRCVS#2	15.2	15.0	101%	90% - 110%	Yes
MRCVS#3	15.0	15.0	100%	90% - 110%	Yes
MRCVS#4	15.1	15.0	101%	90% - 110%	Yes
MRCVS#5	15.2	15.0	101%	90% - 110%	Yes
MRCVS#6	15.2	15.0	101%	90% - 110%	Yes
LCS	20.4	20.0	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
Analytical Services

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 20, 2009
Analytical Batch: 042009A

Investigation: **Total Iron by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using EPA 200.7**

Analytical Results Total Iron

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982696-1	CW-02D-020	10:16	11:52	µg/L	1.00	20.0	29.2
982696-2	CW-02M-020	11:32	12:19	µg/L	1.00	20.0	44.8
982696-3	CW-03D-020	15:00	12:43	µg/L	1.00	20.0	ND
982696-4	CW-03M-020	13:14	12:47	µg/L	1.00	20.0	ND
982696-5	CW-04D-020	18:17	12:52	µg/L	1.00	20.0	ND
982696-6	CW-04M-020	16:50	12:56	µg/L	1.00	20.0	ND
982696-8	OW-90-020	09:16	13:00	µg/L	1.00	20.0	ND
982696-9	CW-01D-020	09:12	13:04	µg/L	1.00	20.0	ND
982696-10	CW-01M-020	10:08	13:08	µg/L	1.00	20.0	20.5
982696-11	0W-02D-020	12:12	13:12	µg/L	1.00	20.0	ND
982696-12	0W-02M-020	11:03	13:16	µg/L	1.00	20.0	ND
982696-13	0W-02S-020	13:23	13:20	µg/L	1.00	20.0	44.9

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DF: Dilution Factor.

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REPORT

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155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982696
Date: April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Prep/ Analyzed: April 20, 2009
Analytical Batch: 042009A

Investigation: **Total Iron by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using EPA 200.7**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982696	29.2	29.9	2.37%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982696	29.2	1.00	2000	2000	1540	2029	75.5%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<20.0	---	<20.0	Yes
MRCCS	4660	5000	93.2%	90% - 110%	Yes
MRCVS#1	4720	5000	94.4%	90% - 110%	Yes
MRCVS#2	4630	5000	92.6%	90% - 110%	Yes
ICS	1900	2000	95.0%	80% - 120%	Yes
LCS	4600	5000	92.0%	90% - 110%	Yes

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DF: Dilution Factor.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Samples: Fourteen (14) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Investigation: California Title 22, Section 26 Metals [dissolved]

Laboratory No.: 982696
Reported April 29, 2009
Collected: April 7 - 8, 2009
Received: April 8, 2009
Analyzed: See Below

Analytical Results

SAMPLE ID: CW-02D-020 **Time Collected:** 10:16 **LAB ID:** 982696-1

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	16:00
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Arsenic	EPA 200.8	4.55	5.00	µg/L	1.00	041309B	04/13/09	16:00
Barium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:58
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	16:00
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:00
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:00
Copper	EPA 200.8	10.4	5.00	µg/L	5.00	041309B	04/13/09	16:00
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Magnesium	EPA 200.7	3470	1.00	µg/L	100	042009B	04/20/09	15:43
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	16.3	5.00	µg/L	10.0	041309B	04/13/09	16:00
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:00
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:00
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:00
Vanadium	EPA 200.8	6.27	5.00	µg/L	5.00	041309B	04/13/09	16:00
Zinc	EPA 200.8	14.8	5.00	µg/L	10.0	041309B	04/13/09	16:00
Boron	EPA 200.7	1430	1.00	µg/L	200	041509A	04/15/09	11:29
Calcium	EPA 200.7	70600	10.0	µg/L	2000	042009B	04/20/09	16:35
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	11:29
Potassium	EPA 200.7	15000	10.0	µg/L	2000	042009B	04/20/09	16:35
Sodium	EPA 200.7	1400000	500	µg/L	100000	042109B	04/21/09	18:39

SAMPLE ID: CW-02M-020		Time Collected: 11:32				LAB ID: 982696-2		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	16:26
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Arsenic	EPA 200.8	2.71	5.00	µg/L	1.00	041309B	04/13/09	16:26
Barium	EPA 200.8	61.4	5.00	µg/L	10.0	041309B	04/13/09	16:26
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	15:05
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	16:26
Chromium	EPA 200.8	6.99	5.00	µg/L	1.00	041309B	04/13/09	16:26
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:26
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:26
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Magnesium	EPA 200.7	9210	1.00	µg/L	100	042009B	04/20/09	15:47
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	26.0	5.00	µg/L	10.0	041309B	04/13/09	16:26
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:26
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:26
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:26
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:26
Boron	EPA 200.7	1040	1.00	µg/L	200	041509A	04/15/09	12:07
Calcium	EPA 200.7	132000	20.0	µg/L	4000	042109A	04/21/09	12:12
Iron	EPA 200.7	36.9	1.00	µg/L	20.0	041509A	04/15/09	12:07
Potassium	EPA 200.7	15600	10.0	µg/L	2000	042109A	04/21/09	13:49
Sodium	EPA 200.7	1300000	500	µg/L	100000	042109B	04/21/09	19:23

SAMPLE ID: CW-03D-020		Time Collected:	15:00			LAB ID:	982696-3	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	16:52
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Arsenic	EPA 200.8	1.89	5.00	µg/L	1.00	041309B	04/13/09	16:52
Barium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	15:11
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	16:52
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:52
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:52
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:52
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Magnesium	EPA 200.7	4700	1.00	µg/L	100	042009B	04/20/09	15:51
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	52.0	5.00	µg/L	10.0	041309B	04/13/09	16:52
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:52
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:52
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:52
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:52
Boron	EPA 200.7	1430	1.00	µg/L	200	041509A	04/15/09	12:11
Calcium	EPA 200.7	63100	10.0	µg/L	2000	042009B	04/20/09	16:39
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:11
Potassium	EPA 200.7	15000	10.0	µg/L	2000	042009B	04/20/09	16:39
Sodium	EPA 200.7	1380000	500	µg/L	100000	042109B	04/21/09	19:27

SAMPLE ID: CW-03M-020		Time Collected: 13:14				LAB ID: 982696-4		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	16:59
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Arsenic	EPA 200.8	1.21	5.00	µg/L	1.00	041309B	04/13/09	16:59
Barium	EPA 200.8	49.6	5.00	µg/L	10.0	041309B	04/13/09	16:59
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	15:18
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	16:59
Chromium	EPA 200.8	10.6	5.00	µg/L	1.00	041309B	04/13/09	16:59
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:59
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:59
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Magnesium	EPA 200.7	16700	10.0	µg/L	500	042109B	04/21/09	17:36
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	19.0	5.00	µg/L	10.0	041309B	04/13/09	16:59
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Silver	EPA 200.8	8.06	5.00	µg/L	5.00	041309B	04/13/09	16:59
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	16:59
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	16:59
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	16:59
Boron	EPA 200.7	1040	1.00	µg/L	200	041509A	04/15/09	12:16
Calcium	EPA 200.7	203000	50.0	µg/L	10000	042109B	04/21/09	18:23
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:16
Potassium	EPA 200.7	20400	10.0	µg/L	2000	042109A	04/21/09	11:26
Sodium	EPA 200.7	1610000	500	µg/L	100000	042109B	04/21/09	19:31

SAMPLE ID: CW-04D-020 **Time Collected:** 18:17 **LAB ID:** 982696-5

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:05
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Arsenic	EPA 200.8	3.88	5.00	µg/L	1.00	041309B	04/13/09	17:05
Barium	EPA 200.8	22.1	5.00	µg/L	10.0	041309B	04/13/09	17:05
Beryllium	EPA 200.8	7.24	5.00	µg/L	1.00	041409A	04/14/09	16:17
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:05
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:05
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:05
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:05
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Magnesium	EPA 200.7	8280	1.00	µg/L	100	042009B	04/20/09	16:15
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	23.7	5.00	µg/L	10.0	041309B	04/13/09	17:05
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:05
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:05
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:05
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:05
Boron	EPA 200.7	1400	1.00	µg/L	200	042809A	04/28/09	12:22
Calcium	EPA 200.7	147000	20.0	µg/L	4000	042109A	04/21/09	13:16
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:35
Potassium	EPA 200.7	17400	10.0	µg/L	2000	042109A	04/21/09	13:53
Sodium	EPA 200.7	1630000	500	µg/L	100000	042109B	04/21/09	19:35

SAMPLE ID: CW-04M-020 **Time Collected:** 16:50 **LAB ID:** 982696-6

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:12
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Arsenic	EPA 200.8	2.34	5.00	µg/L	1.00	041309B	04/13/09	17:12
Barium	EPA 200.8	75.2	5.00	µg/L	10.0	041309B	04/13/09	17:12
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:24
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:12
Chromium	EPA 200.8	15.8	5.00	µg/L	1.00	041309B	04/13/09	17:12
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:12
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:12
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Magnesium	EPA 200.7	12400	10.0	µg/L	500	042009B	04/20/09	16:43
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:12
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:12
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:12
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:12
Boron	EPA 200.7	811	1.00	µg/L	200	042809A	04/28/09	12:26
Calcium	EPA 200.7	151000	20.0	µg/L	4000	042109A	04/21/09	13:21
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:36
Potassium	EPA 200.7	15400	10.0	µg/L	2000	042009B	04/20/09	16:43
Sodium	EPA 200.7	1120000	500	µg/L	100000	042109B	04/21/09	19:39

SAMPLE ID: OW-90-020		Time Collected: 09:16				LAB ID: 982696-8		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:19
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Arsenic	EPA 200.8	1.04	5.00	µg/L	1.00	041309B	04/13/09	17:19
Barium	EPA 200.8	48.4	5.00	µg/L	10.0	041309B	04/13/09	17:19
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:30
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:19
Chromium	EPA 200.8	10.5	5.00	µg/L	1.00	041309B	04/13/09	17:19
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:19
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:19
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Magnesium	EPA 200.7	18000	10.00	µg/L	500	042009B	04/20/09	16:47
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	16.3	5.00	µg/L	10.0	041309B	04/13/09	17:19
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:19
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:19
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:19
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:19
Boron	EPA 200.7	1080	1.00	µg/L	200	042809A	04/28/09	12:30
Calcium	EPA 200.7	204000	50	µg/L	10000	042109B	04/21/09	18:56
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:44
Potassium	EPA 200.7	21400	10.0	µg/L	2000	042009B	04/20/09	16:47
Sodium	EPA 200.7	1500000	500	µg/L	100000	042109B	04/21/09	19:43

SAMPLE ID: CW-01D-020		Time Collected: 09:12				LAB ID: 982696-9		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:25
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Arsenic	EPA 200.8	1.60	5.00	µg/L	1.00	041309B	04/13/09	17:25
Barium	EPA 200.8	18.6	5.00	µg/L	10.0	041309B	04/13/09	17:25
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:37
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:25
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:25
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:25
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:25
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Magnesium	EPA 200.7	11100	10.0	µg/L	500	042009B	04/20/09	16:52
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Silver	EPA 200.8	5.35	5.00	µg/L	5.00	041309B	04/13/09	17:25
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:25
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:25
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:25
Boron	EPA 200.7	1120	1.00	µg/L	200	042809A	04/28/09	12:34
Calcium	EPA 200.7	129000	20.0	µg/L	4000	042109A	04/21/09	13:25
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:48
Potassium	EPA 200.7	14400	10.0	µg/L	2000	042009B	04/20/09	16:52
Sodium	EPA 200.7	1290000	500	µg/L	100000	042109B	04/21/09	19:47

SAMPLE ID: CW-01M-020 **Time Collected:** 10:08 **LAB ID:** 982696-10

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:32
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Arsenic	EPA 200.8	1.59	5.00	µg/L	1.00	041309B	04/13/09	17:32
Barium	EPA 200.8	67.0	5.00	µg/L	10.0	041309B	04/13/09	17:32
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:43
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:32
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:32
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:32
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:32
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Magnesium	EPA 200.7	10700	10.0	µg/L	500	042009B	04/20/09	16:56
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:32
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:32
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:32
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:32
Boron	EPA 200.7	1210	1.00	µg/L	200	042809A	04/28/09	12:57
Calcium	EPA 200.7	130000	20.0	µg/L	4000	042109A	04/21/09	13:29
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:52
Potassium	EPA 200.7	16100	10.0	µg/L	2000	042009B	04/20/09	16:56
Sodium	EPA 200.7	1260000	500	µg/L	100000	042109B	04/21/09	19:52

SAMPLE ID: 0W-02D-020		Time Collected: 15:32				LAB ID: 982696-11		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:38
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Arsenic	EPA 200.8	1.95	5.00	µg/L	1.00	041309B	04/13/09	17:38
Barium	EPA 200.8	19.2	5.00	µg/L	10.0	041309B	04/13/09	17:38
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:50
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:38
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:38
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:38
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:38
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Magnesium	EPA 200.7	24100	10.0	µg/L	500	042009B	04/20/09	17:19
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:38
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:38
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:38
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:38
Boron	EPA 200.7	1130	1.00	µg/L	200	042809A	04/28/09	13:01
Calcium	EPA 200.7	178000	50	µg/L	10000	042109B	04/21/09	19:00
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	12:56
Potassium	EPA 200.7	17800	10.0	µg/L	2000	042009B	04/20/09	17:19
Sodium	EPA 200.7	1200000	500	µg/L	100000	042109B	04/21/09	19:56

SAMPLE ID: 0W-02M-020		Time Collected: 14:25				LAB ID: 982696-12		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:45
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Arsenic	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:45
Barium	EPA 200.8	57.4	5.00	µg/L	10.0	041309B	04/13/09	17:45
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	16:56
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:45
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:45
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:45
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:45
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Magnesium	EPA 200.7	20200	10.0	µg/L	500	042009B	04/20/09	17:24
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:45
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:45
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:45
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:45
Zinc	EPA 200.8	14.7	5.00	µg/L	10.0	041309B	04/13/09	17:45
Boron	EPA 200.7	1090	1.00	µg/L	200	042809A	04/28/09	13:05
Calcium	EPA 200.7	176000	50.0	µg/L	10000	042109B	04/21/09	19:19
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	13:00
Potassium	EPA 200.7	19300	10.0	µg/L	2000	042009B	04/20/09	17:24
Sodium	EPA 200.7	1180000	500	µg/L	100000	042109B	04/21/09	20:15

SAMPLE ID: 0W-02S-020 **Time Collected:** 12:52 **LAB ID:** 982696-13

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041309B	04/13/09	17:52
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Arsenic	EPA 200.8	2.39	5.00	µg/L	1.00	041309B	04/13/09	17:52
Barium	EPA 200.8	40.0	5.00	µg/L	10.0	041309B	04/13/09	17:52
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	17:03
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	17:52
Chromium	EPA 200.8	27.6	5.00	µg/L	1.00	041309B	04/13/09	17:52
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:52
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:52
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Magnesium	EPA 200.7	4440	1.00	µg/L	100	042009B	04/20/09	15:29
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09C	04/16/09	N/A
Molybdenum	EPA 200.8	28.3	5.00	µg/L	10.0	041309B	04/13/09	17:52
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	17:52
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	17:52
Vanadium	EPA 200.8	6.01	5.00	µg/L	5.00	041309B	04/13/09	17:52
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	17:52
Boron	EPA 200.7	675	1.00	µg/L	200	042809A	04/28/09	12:06
Calcium	EPA 200.7	28600	10.0	µg/L	2000	042009B	04/20/09	16:23
Iron	EPA 200.7	ND	1.00	µg/L	20.0	041509A	04/15/09	13:04
Potassium	EPA 200.7	6200	10.0	µg/L	2000	042009B	04/20/09	16:23
Sodium	EPA 200.7	300000	500	µg/L	100000	042109B	04/21/09	20:19

ND: Not detected,or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Cook
Mona Nassimi, Manager
Analytical Services

982696

CH2MHILL **CHAIN OF CUSTODY RECORD** 4/8/2009 3:19:20 PM Page 1 O

Project Name PGE Topock
Location Topock
Project Number 370367.MP.02.CM.01
Project Manager Jay Piper
Sample Manager Matt Ringler

Task Order
Project 2009-CMP-020
Turnaround Time 10 Days
Shipping Date: 4/8/2009
COC Number: 2

	Container	250 ml Poly	500 ml Poly	500 ml Poy	1 Liter Poly	1L Poly	1 Liter Poly	1 Liter Poly	1 Liter Poly	1 Liter Poly		
	Preservatives	(NH4)2SO4/NH4OH, 4°C	HNO3	HNO3	4°C	4°C	4°C	4°C	4°C	H2SO4, pH<2, 4°C		
	Filtered	Field	Field	NA	NA	NA	NA	NA	NA	NA		
	Holding Time	28	7	180	14	7	2	14	14	28		
		Cr6 (E218.6) Field Filtered	Metals (E200.7FF) Field Filtered Title 22,Al,B,Ca,Mg,K,Na,Mn,Fe	Metals (E200.7T) Total Iron, unfiltered	Specific Conductance (E120.1)	TDS (SM2540C)	Anions (E300.0) Cl, Fl, SO4	Alkalinity (SM2320B)	Turbidity (SM2130)	Ammonia (SM4500NH3)	Number of Containers	COMM
	DATE TIME Matrix											
-1	CW-02D-020 4/7/2009 10:16 Water	X	X	X	X	X	X	X	X	X	7	
-2	CW-02M-020 4/7/2009 11:32 Water	X	X	X	X	X	X	X	X	X	7	
-3	CW-03D-020 4/7/2009 15:00 Water	X	X	X	X	X	X	X	X	X	7	
-4	CW-03M-020 4/7/2009 13:14 Water	X	X	X	X	X	X	X	X	X	7	
-5	CW-04D-020 4/7/2009 18:17 Water	X	X	X	X	X	X	X	X	X	7	
-6	CW-04M-020 4/7/2009 16:50 Water	X	X	X	X	X	X	X	X	X	7	
-7	OW-87-020 4/7/2009 15:41 Water	X									1	
-8	OW-90-020 4/7/2009 9:16 Water	X	X	X	X	X	X	X	X	X	7	
-9	CW-01D-020 4/8/2009 9:12 Water	X	X	X	X	X	X	X	X	X	7	
-10	CW-01M-020 4/8/2009 10:08 Water	X	X	X	X	X	X	X	X	X	7	
-11	OW-02D-020 4/8/2009 12:12 Water	X	X	X	X	X	X	X	X	X	7	
-12	OW-02M-020 4/8/2009 11:03 Water	X	X	X	X	X	X	X	X	X	7	
-13	OW-02S-020 4/8/2009 13:23 Water	X	X	X	X	X	X	X	X	X	7	
-14	OW-88-020 4/8/2009 13:40 Water	X									1	
											TOTAL NUMBER OF CONTAINERS 86	

ALERT !!
Level III QC

For Sample Condit
See Form #1

Signatures	Date/Time
Approved by	4-8-09
Sampled by	
Relinquished by	1540
-1-1 Received by Rafael Davila	4-8-09 1545
Relinquished by Rafael Davila	4-8-09 21:30
Received by Hashem	4-8-09 21:30

Shipping Details
Method of Shipment: courier
On Ice: yes / no
Airbill No:
Lab Name: Truesdail Laboratories, Inc.
Lab Phone: (714) 730-6239

ATTN:
Sample Custody

Special Instructions:

Report Copy to
Shawn Duffy
(530) 229-3303

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

May 11, 2009

E2 Consulting Engineers, Inc.
Mr. Shawn Duffy
155 Grand Ave., Suite 1000
Oakland, California 94612

Dear Mr. Duffy:

SUBJECT: REVISED CASE NARRATIVE PG&E TOPOCK 2009-CMP-020, GROUNDWATER MONITORING PROJECT, TLI NO.: 982738

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2009-CMP-020 groundwater-monitoring project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data, and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data are under Section 5.

The samples were received and delivered with the chain of custody on April 10, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Total Dissolved Chromium, for samples 982738-3 and 982738-5, were re-analyzed due to the discrepancy between the Total Dissolved Chromium and Hexavalent Chromium results. The results from the re-analysis are reported.

Samples 982738-1 through 982738-5 for Turbidity analysis by SM 2130B were received past the method specified holding time.

No other violations or non-conformance actions occurred for this data package.

If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi
Manager, Analytical Services

K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2320B	Alkalinity	Iordan Stavrev
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 D	Ammonia	Iordan Stavrev
EPA 200.7	Metals by ICP	Hope Trinidad / Kris Collins / Daniel Kang
EPA 200.8	Metals by ICP/MS	Daniel Kang / Linda Saetern
EPA 245.1	Mercury	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Analyzed: April 14, 2009
Analytical Batch: 04CrH09F

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	10:47	µg/L	1.05	0.20	0.63
982738-2	OW-01M-020	14:24	10:58	µg/L	1.05	0.20	1.23
982738-3	OW-01S-020	15:08	11:08	µg/L	1.05	0.20	18.1
982738-4	OW-05S-020	17:04	11:19	µg/L	1.05	0.20	23.4
982738-5	OW-91-020	08:25	11:29	µg/L	1.05	0.20	18.2
982738-6	OW-05D-020	10:05	11:39	µg/L	1.05	0.20	0.80
982738-7	OW-05M-020	08:51	11:50	µg/L	1.05	0.20	1.48
982738-8	OW-89-020	10:25	12:00	µg/L	1.05	0.20	ND

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sean Condon

for Mona Nassimi, Manager
Analytical Services

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Laboratory No.: 982738
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Collected: April 8 - 9, 2009
Received: April 10, 2009
Analyzed: April 14, 2009
Analytical Batch: 04CrH09F

Investigation: **Hexavalent Chromium by IC Using Method EPA 218.6**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-3	18.1	18.0	0.55%	< 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982738-1	0.63	1.06	1.00	1.06	1.64	1.69	95.3%	90-110%	Yes
MS	982738-2	1.23	1.06	5.00	5.30	6.36	6.53	96.8%	90-110%	Yes
MS	982738-3	18.1	1.08	20.0	21.6	39.4	39.7	98.6%	90-110%	Yes
MS	982738-4	23.4	1.09	25.0	27.3	50.4	50.7	99.1%	90-110%	Yes
MS	982738-5	18.2	1.08	20.0	21.6	39.1	39.8	96.8%	90-110%	Yes
MS	982738-6	0.80	1.06	1.00	1.06	1.78	1.86	92.5%	90-110%	Yes
MS	982738-7	1.48	1.06	5.00	5.30	6.56	6.78	95.8%	90-110%	Yes
MS	982738-8	0.00	1.06	1.00	1.06	1.07	1.06	101%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
BLANK	ND	<0.200	---	<0.200	Yes
MRCCS	5.01	5.00	100%	90% - 110%	Yes
MRCVS#1	10.0	10.0	100%	95% - 105%	Yes
MRCVS#2	9.91	10.0	99.1%	95% - 105%	Yes
MRCVS#3	9.84	10.0	98.4%	95% - 105%	Yes
MRCVS#4	9.87	10.0	98.7%	95% - 105%	Yes
LCS	5.02	5.00	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
Analytical Services

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04EC09F

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	MDL	DF	RL	Results
982738-1	OW-01D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6670
982738-2	OW-01M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6740
982738-3	OW-01S-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	3060
982738-4	OW-05S-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	1960
982738-5	OW-91-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	2990
982738-6	OW-05D-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6610
982738-7	OW-05M-020	µmhos/cm	EPA 120.1	0.022	1.00	2.00	6700

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-7	6700	6710	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	696	706	98.6%	90% - 110%	Yes
CVS#1	978	990	98.8%	90% - 110%	Yes
LCS	696	706	98.6%	90% - 110%	Yes
LCSD	696	706	98.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
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for Mona Nassimi, Manager
Analytical Services

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Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
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P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 14, 2009
Analytical Batch: 04TDS09E

Investigation: **Total Dissolved Solids by SM 2540C**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Units	Method	RL	Results
982738-1	OW-01D-020	mg/L	SM 2540C	250	4350
982738-2	OW-01M-020	mg/L	SM 2540C	250	4660
982738-3	OW-01S-020	mg/L	SM 2540C	50.0	1690
982738-4	OW-05S-020	mg/L	SM 2540C	50.0	1170
982738-5	OW-91-020	mg/L	SM 2540C	50.0	1760
982738-6	OW-05D-020	mg/L	SM 2540C	250	3710
982738-7	OW-05M-020	mg/L	SM 2540C	250	4030

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-7	4030	4090	0.74%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<10.0	---	<10.0	Yes
LCS 1	501	500	100%	90% - 110%	Yes
LCS 2	497	500	99.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sam Camil

for Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Laboratory No.: 982738

Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 14, 2009
Analytical Batch: 04ALK09C

Investigation:

Alkalinity by SM 2320B

Analytical Results Total Alkalinity, Bicarbonate, Carbonate

TLI I.D.	Field I.D.	Units	RL	Total Alkalinity	Bicarbonate	Carbonate
982738-1	OW-01D-020	mg/L	5.00	70.0	70.0	ND
982738-2	OW-01M-020	mg/L	5.00	75.0	75.0	ND
982738-3	OW-01S-020	mg/L	5.00	61.0	61.0	ND
982738-4	OW-05S-020	mg/L	5.00	81.0	81.0	ND
982738-5	OW-91-020	mg/L	5.00	63.0	63.0	ND
982738-6	OW-05D-020	mg/L	5.00	72.0	72.0	ND
982738-7	OW-05M-020	mg/L	5.00	68.0	68.0	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-7	68.0	69.0	1.46%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982738-7	68.0	1.00	100	100	165	168	97.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<5.00	---	<5.00	Yes
LCS	101	100	101%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Project Name: PG&E Topock Project
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P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 11, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 11, 2009
Analytical Batch: 04TUC09G
Revision 1

Investigation: **Turbidity by Method SM 2130B**

Analytical Results Turbidity

TLI I.D.	Field I.D.	Sample Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	NTU	1.00	0.100	0.299 J
982738-2	OW-01M-020	14:24	NTU	1.00	0.100	0.167 J
982738-3	OW-01S-020	15:08	NTU	1.00	0.100	0.817 J
982738-4	OW-05S-020	17:04	NTU	1.00	0.100	0.980 J
982738-5	OW-91-020	08:25	NTU	1.00	0.100	0.962 J
982738-6	OW-05D-020	10:05	NTU	1.00	0.100	0.151
982738-7	OW-05M-020	08:51	NTU	1.00	0.100	0.114

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-6	0.151	0.147	2.68%	< 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	8.06	8.00	101%	90% - 110%	Yes
LCS	8.06	8.00	101%	90% - 110%	Yes
LCS	8.06	8.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor

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Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 14, 2009
Analytical Batch: 04NH3-E09E

Investigation: **Ammonia as N by Method SM 4500-NH3 D**

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-2	OW-01M-020	14:24	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-3	OW-01S-020	15:08	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-4	OW-05S-020	17:04	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-5	OW-91-020	08:25	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-6	OW-05D-020	10:05	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982738-7	OW-05M-020	08:51	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-7	ND	ND	0.0%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982738-7	0.00	1.00	6.00	6.00	6.24	6.00	104%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCCS	6.12	6.00	102%	90% - 110%	Yes
MRCVS#1	6.03	6.00	101%	90% - 110%	Yes
LCS	10.8	10.0	108%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
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Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
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P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
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Prep/ Analyzed: April 13, 2009
Analytical Batch: 04AN09J

Investigation: **Fluoride by Ion Chromatography using EPA 300.0**

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	10:15	mg/L	5.00	0.500	1.78
982738-2	OW-01M-020	14:24	10:26	mg/L	5.00	0.500	1.81
982738-3	OW-01S-020	15:08	10:37	mg/L	5.00	0.500	2.00
982738-4	OW-05S-020	17:04	10:49	mg/L	5.00	0.500	2.44
982738-5	OW-91-020	08:25	11:00	mg/L	5.00	0.500	2.09
982738-6	OW-05D-020	10:05	11:12	mg/L	5.00	0.500	2.02
982738-7	OW-05M-020	08:51	11:23	mg/L	5.00	0.500	2.21

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982746-2	ND	ND	0.0%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982746-2	0.00	1.00	2.00	2.00	2.18	2.00	109%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCCS	4.10	4.00	103%	90% - 110%	Yes
MRCVS#1	3.15	3.00	105%	90% - 110%	Yes
MRCVS#2	3.22	3.00	107%	90% - 110%	Yes
MRCVS#3	3.18	3.00	106%	90% - 110%	Yes
LCS	4.11	4.00	103%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sen Gard
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04AN09J

Investigation: **Chloride by Ion Chromatography using EPA 300.0**

Analytical Results Chloride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	15:45	mg/L	500	100	2100
982738-2	OW-01M-020	14:24	15:57	mg/L	500	100	2130
982738-6	OW-05D-020	10:05	17:05	mg/L	500	100	2090
982738-7	OW-05M-020	08:51	17:17	mg/L	500	100	2100

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982739-13	92.7	91.1	1.74%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982739-13	92.7	50.0	4.00	200	304	293	106%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.09	4.00	102%	90% - 110%	Yes
MRCVS#1	3.02	3.00	101%	90% - 110%	Yes
MRCVS#2	3.00	3.00	100%	90% - 110%	Yes
MRCVS#3	3.01	3.00	100%	90% - 110%	Yes
MRCVS#4	3.00	3.00	100%	90% - 110%	Yes
LCS	4.08	4.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

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TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 14, 2009
Analytical Batch: 04AN09K

Investigation: **Chloride by Ion Chromatography using EPA 300.0**

Analytical Results Chloride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-3	OW-01S-020	15:08	13:32	mg/L	200	40.0	907
982738-4	OW-05S-020	17:04	13:44	mg/L	200	40.0	511
982738-5	OW-91-020	08:25	13:55	mg/L	200	40.0	898

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982761-6	275	272	1.10%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982761-6	275	100.0	2.00	200	471	475	98.0%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.01	4.00	100%	90% - 110%	Yes
MRCVS#1	3.00	3.00	100%	90% - 110%	Yes
MRCVS#2	2.94	3.00	98.0%	90% - 110%	Yes
MRCVS#3	2.98	3.00	99.3%	90% - 110%	Yes
LCS	4.05	4.00	101%	90% - 110%	Yes

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04AN09J

Investigation: **Sulfate by Ion Chromatography using EPA 300.0**

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	17:28	mg/L	50.0	25.0	477
982738-2	OW-01M-020	14:24	17:39	mg/L	50.0	25.0	486
982738-3	OW-01S-020	15:08	17:51	mg/L	50.0	25.0	177
982738-4	OW-05S-020	17:04	18:02	mg/L	50.0	25.0	125
982738-5	OW-91-020	08:25	18:14	mg/L	50.0	25.0	167
982738-6	OW-05D-020	10:05	18:48	mg/L	50.0	25.0	498
982738-7	OW-05M-020	08:51	18:59	mg/L	50.0	25.0	522

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 13, 2009
Analytical Batch: 04AN09J

Investigation: **Sulfate by Ion Chromatography using EPA 300.0**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982746-2	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982746-2	0.00	1.0	2.00	2.00	2.26	2.00	113%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	20.5	20.0	103%	90% - 110%	Yes
MRCVS#1	15.2	15.0	101%	90% - 110%	Yes
MRCVS#2	15.4	15.0	103%	90% - 110%	Yes
MRCVS#3	15.4	15.0	103%	90% - 110%	Yes
MRCVS#4	15.3	15.0	102%	90% - 110%	Yes
MRCVS#5	15.6	15.0	104%	90% - 110%	Yes
LCS	20.4	20.0	102%	90% - 110%	Yes

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DF: Dilution Factor.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 21, 2009
Analytical Batch: 042109B

Investigation: **Total Iron by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using EPA 200.7**

Analytical Results Total Iron

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982738-1	OW-01D-020	16:16	22:20	µg/L	1.00	20.0	ND
982738-2	OW-01M-020	14:24	22:26	µg/L	1.00	20.0	38.9
982738-3	OW-01S-020	15:08	22:41	µg/L	1.00	20.0	96.8
982738-4	OW-05S-020	17:04	23:04	µg/L	1.00	20.0	116
982738-5	OW-91-020	08:25	23:08	µg/L	1.00	20.0	89.6
982738-6	OW-05D-020	10:05	23:12	µg/L	1.00	20.0	ND
982738-7	OW-05M-020	08:51	23:16	µg/L	1.00	20.0	ND

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Laboratory No.: 982738
Date: May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Prep/ Analyzed: April 21, 2009
Analytical Batch: 042109B

Investigation: **Total Iron by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using EPA 200.7**

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982738-1	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982738-1	0.00	1.00	2000	2000	1710	2000	85.5%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<20.0	—	<20.0	Yes
MRCCS	5080	5000	102%	90% - 110%	Yes
MRCVS#1	5040	5000	101%	90% - 110%	Yes
MRCVS#2	4920	5000	98.4%	90% - 110%	Yes
ICS	2160	2000	108%	80% - 120%	Yes
LCS	4750	5000	95.0%	90% - 110%	Yes

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DF: Dilution Factor.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Samples: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 370367.MP.02.CM.01
P.O. No.: 370367.MP.02.CM.01

Investigation: California Title 22, Section 26 Metals [dissolved]

Laboratory No.: 982738
Reported May 6, 2009
Collected: April 8 - 9, 2009
Received: April 10, 2009
Analyzed: See Below

Analytical Results

SAMPLE ID: OW-01D-020 **Time Collected:** 16:16 **LAB ID:** 982738-1

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	12:50
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	11:15
Arsenic	EPA 200.8	1.99	5.00	µg/L	1.00	041309B	04/13/09	12:50
Barium	EPA 200.8	33.5	5.00	µg/L	10.0	041309B	04/13/09	12:50
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	12:50
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	12:50
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	12:50
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	12:50
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	12:50
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	12:50
Magnesium	EPA 200.7	11600	10.0	µg/L	500	042209A	04/22/09	14:31
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	12:50
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	16.3	5.00	µg/L	10.0	041309B	04/13/09	12:50
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	12:50
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	12:50
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041509A	04/15/09	11:15
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	12:50
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	12:50
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	12:50
Boron	EPA 200.7	1100	1.00	µg/L	200	042209A	04/22/09	12:37
Calcium	EPA 200.7	146000	50.0	µg/L	10000	042209A	04/22/09	15:22
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	21:41
Potassium	EPA 200.7	16000	10.0	µg/L	2000	042209A	04/22/09	14:31
Sodium	EPA 200.7	1450000	500	µg/L	100000	042309A	04/23/09	12:29

SAMPLE ID: OW-01M-020		Time Collected: 14:24				LAB ID: 982738-2		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:19
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	11:40
Arsenic	EPA 200.8	1.62	5.00	µg/L	1.00	041309B	04/13/09	14:19
Barium	EPA 200.8	84.0	5.00	µg/L	10.0	041309B	04/13/09	14:19
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:19
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:19
Chromium	EPA 200.8	1.50	5.00	µg/L	1.00	041309B	04/13/09	14:19
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:19
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:19
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:19
Magnesium	EPA 200.7	18900	10.0	µg/L	500	042209A	04/22/09	14:35
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:19
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	15.8	5.00	µg/L	10.0	041309B	04/13/09	14:19
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:19
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:19
Silver	EPA 200.8	ND	5.00	µg/L	5.00	050509A	05/05/09	15:47
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:19
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:19
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:19
Boron	EPA 200.7	1040	1.00	µg/L	200	042209A	04/22/09	13:17
Calcium	EPA 200.7	176000	50.0	µg/L	10000	042209A	04/22/09	14:56
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	20:58
Potassium	EPA 200.7	19600	10.0	µg/L	2000	042209A	04/22/09	14:35
Sodium	EPA 200.7	1320000	500	µg/L	100000	042309A	04/23/09	11:49

SAMPLE ID: OW-01S-020		Time Collected:	15:08			LAB ID:	982738-3	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:26
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	12:00
Arsenic	EPA 200.8	1.00	5.00	µg/L	1.00	041309B	04/13/09	14:26
Barium	EPA 200.8	96.4	5.00	µg/L	10.0	041309B	04/13/09	14:26
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:26
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:26
Chromium	EPA 200.8	22.1	5.00	µg/L	1.00	050609A	05/06/09	14:59
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:26
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:26
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Magnesium	EPA 200.7	27600	10.0	µg/L	500	042209A	04/22/09	14:39
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041509A	04/15/09	12:00
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:26
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:26
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:26
Boron	EPA 200.7	342	1.00	µg/L	200	042309A	04/23/09	10:35
Calcium	EPA 200.7	145000	50.0	µg/L	10000	042209A	04/22/09	15:26
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	20:38
Potassium	EPA 200.7	12200	10.0	µg/L	2000	042209A	04/22/09	14:39
Sodium	EPA 200.7	461000	100	µg/L	20000	042309A	04/23/09	11:41

SAMPLE ID: OW-05S-020		Time Collected: 17:04				LAB ID: 982738-4		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:32
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	12:06
Arsenic	EPA 200.8	1.22	5.00	µg/L	1.00	041309B	04/13/09	14:32
Barium	EPA 200.8	68.8	5.00	µg/L	10.0	041309B	04/13/09	14:32
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:32
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:32
Chromium	EPA 200.8	21.1	5.00	µg/L	1.00	041309B	04/13/09	14:32
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:32
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:32
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:32
Magnesium	EPA 200.7	13100	10.0	µg/L	500	042209A	04/22/09	13:46
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:32
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	25.7	5.00	µg/L	10.0	041309B	04/13/09	14:32
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:32
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:32
Silver	EPA 200.8	ND	5.00	µg/L	5.00	050509A	05/05/09	15:53
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:32
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:32
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:32
Boron	EPA 200.7	536	1.00	µg/L	200	042309A	04/23/09	10:51
Calcium	EPA 200.7	76500	10.0	µg/L	2000	042209A	04/22/09	13:46
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	21:02
Potassium	EPA 200.7	9200	10.0	µg/L	2000	042209A	04/22/09	13:46
Sodium	EPA 200.7	332000	100	µg/L	20000	042309A	04/23/09	11:19

SAMPLE ID: OW-91-020 **Time Collected:** 08:25 **LAB ID:** 982738-5

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:39
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	12:13
Arsenic	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:39
Barium	EPA 200.8	102	5.00	µg/L	10.0	041309B	04/13/09	14:39
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:39
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:39
Chromium	EPA 200.8	21.0	5.00	µg/L	1.00	050609A	05/06/09	15:32
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:39
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:39
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Magnesium	EPA 200.7	28000	10.0	µg/L	500	042209A	04/22/09	14:44
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041509A	04/15/09	12:13
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:39
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:39
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:39
Boron	EPA 200.7	384	1.00	µg/L	200	042309A	04/23/09	10:56
Calcium	EPA 200.7	142000	50.0	µg/L	10000	042209A	04/22/09	15:30
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	21:06
Potassium	EPA 200.7	12500	10.0	µg/L	2000	042209A	04/22/09	14:44
Sodium	EPA 200.7	459000	100	µg/L	20000	042309A	04/23/09	11:45

SAMPLE ID: OW-05D-020 **Time Collected:** 10:05 **LAB ID:** 982738-6

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:45
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	12:32
Arsenic	EPA 200.8	1.22	5.00	µg/L	1.00	041309B	04/13/09	14:45
Barium	EPA 200.8	21.2	5.00	µg/L	10.0	041309B	04/13/09	14:45
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:45
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:45
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:45
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:45
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:45
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:45
Magnesium	EPA 200.7	26200	10.0	µg/L	500	042209A	04/22/09	14:48
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:45
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	11.3	5.00	µg/L	10.0	041309B	04/13/09	14:45
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:45
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:45
Silver	EPA 200.8	ND	5.00	µg/L	5.00	050509A	05/05/09	16:00
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:45
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:45
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:45
Boron	EPA 200.7	1130	1.00	µg/L	200	042209A	04/22/09	13:34
Calcium	EPA 200.7	190000	50.0	µg/L	10000	042209A	04/22/09	15:34
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	21:11
Potassium	EPA 200.7	19700	10.0	µg/L	2000	042209A	04/22/09	14:48
Sodium	EPA 200.7	1390000	500	µg/L	100000	042309A	04/23/09	12:33

SAMPLE ID: OW-05M-020 **Time Collected:** 08:51 **LAB ID:** 982738-7

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	041409A	04/14/09	14:52
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	041509A	04/15/09	12:38
Arsenic	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:52
Barium	EPA 200.8	45.8	5.00	µg/L	10.0	041309B	04/13/09	14:52
Beryllium	EPA 200.8	ND	5.00	µg/L	1.00	041409A	04/14/09	14:52
Cadmium	EPA 200.8	ND	5.00	µg/L	3.00	041309B	04/13/09	14:52
Chromium	EPA 200.8	1.78	5.00	µg/L	1.00	041309B	04/13/09	14:52
Cobalt	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:52
Copper	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:52
Lead	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:52
Magnesium	EPA 200.7	18900	10.0	µg/L	500	042209A	04/22/09	14:52
Manganese	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:52
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	04Hg09F	04/27/09	N/A
Molybdenum	EPA 200.8	14.0	5.00	µg/L	10.0	041309B	04/13/09	14:52
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:52
Selenium	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:52
Silver	EPA 200.8	ND	5.00	µg/L	5.00	041509A	04/15/09	12:38
Thallium	EPA 200.8	ND	5.00	µg/L	1.00	041309B	04/13/09	14:52
Vanadium	EPA 200.8	ND	5.00	µg/L	5.00	041309B	04/13/09	14:52
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	041309B	04/13/09	14:52
Boron	EPA 200.7	1070	1.00	µg/L	200	042209A	04/22/09	13:38
Calcium	EPA 200.7	177000	50.0	µg/L	10000	042209A	04/22/09	15:38
Iron	EPA 200.7	ND	1.00	µg/L	20.0	042109B	04/21/09	21:15
Potassium	EPA 200.7	18700	10.0	µg/L	2000	042209A	04/22/09	14:52
Sodium	EPA 200.7	1340000	500	µg/L	100000	042309A	04/23/09	12:37

ND: Not detected,or below limit of detection.
DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sen Cand
Mona Nassimi, Manager
Analytical Services

Rec'd 04/10/09

~~982738~~ 982738

SEAN

CH2MHILL 982738 CHAIN OF CUSTODY RECORD

4/10/2009 8:26:36 AM

Project Name PGE Topock
Location Topock
Project Number 370367.MP.02.CM.01
Project Manager Jay Piper
Sample Manager Matt Ringier

Task Order
Project 2009-CMP-020
Turnaround Time 10 Days
Shipping Date: 4/9/2009
COC Number: 5

	DATE	TIME	Matrix	Cr6 (E218.6) Field Filtered	Metals (E200.7FF) Field Filtered Title 22,Al,B,Ca,Mg,K,Na,Mn,Fe	Metals (E200.7T) Total Iron, unfiltered	Specific Conductance (E120.1)	TDS (SM2540C)	Anions (E300.0) Cl, Fl, SO4	Alkalinity (SM2320B)	Turbidity (SM2130)	Ammonia (SM4500NH3)	Number of Containers	COMMENTS
Container:				250 ml Poly	500 ml Poly	500 ml Poly	1 Liter Poly	1L Poly	1 Liter Poly	1 Liter Poly	1 Liter Poly	1 Liter Poly		
Preservatives:				(NH4)2SO4/NH4OH, 4°C	HNC3	HNO3	4°C	4°C	4°C	4°C	4°C	H2SO4, pH<2, 4°C		
Filtered:				Field	Field	NA	NA	NA	NA	NA	NA	NA		
Holding Time:				28	7	180	14	7	2	14	14	28		
1 OW-01D-020	4/8/2009	16:16	Water	X	X	X	X	X	X	X	X	X	7	PH-2
2 OW-01M-020	4/8/2009	14:24	Water	X	X	X	X	X	X	X	X	X	7	PH-2
3 OW-01S-020	4/8/2009	15:08	Water	X	X	X	X	X	X	X	X	X	7	PH-2
4 OW-05S-020	4/8/2009	17:04	Water	X	X	X	X	X	X	X	X	X	7	PH-2
5 OW-91-020	4/8/2009	8:25	Water	X	X	X	X	X	X	X	X	X	7	PH-2
6 OW-05D-020	4/9/2009	10:05	Water	X	X	X	X	X	X	X	X	X	7	PH-2
7 OW-05M-020	4/9/2009	8:51	Water	X	X	X	X	X	X	X	X	X	7	PH-2
8 OW-89-020	4/9/2009	10:25	Water	X									1	
												TOTAL NUMBER OF CONTAINERS	50	

For Sample Condition See Form Attached

ALERT !! Level III QC

Signatures		Date/Time
Approved by		
Sampled by	Cynthia Lund	4/10/09 1540
Relinquished by	Cynthia Lund	4/10/09 1540
Received by		04/10/09 15:40
Relinquished by		4/10/09 22:20
Received by	Rafael Davila	4-11-09 4:00 AM

Shipping Details
Method of Shipment: courier
On Ice: yes / no
Airbill No:
Lab Name: Truesdail Laboratories, Inc.
Lab Phone: (714) 730-6239

ATTN: Sample Custody

Special Instructions:

Report Copy to
Shawn Duffy
(530) 229-3303

EMax

09D098

CH2MHILL CH-0408

CHAIN OF CUSTODY RECORD

4/8/2009 2:52:48 PM

Project Name PGE Topock
Location Topock
Project Number 370367.MP.02.CM.01
Project Manager Jay Piper
Sample Manager Matt Ringler

Task Order
Project 2009-CMP-020
Turnaround Time 12 Days
Shipping Date: 4/8/2009
COC Number: 3

	Container:	Preservatives:	Filtered:	Holding Time:	
	1 Liter Poly	H2SO4, pH<2, 4°C	NA	28	
	DATE	TIME	Matrix	Nitrate/Nitrite (SM4500NO3-E)	Number of Containers / COMMENTS
1 CW-02D-020	4/7/2009	10:16	Water	X	1
2 CW-02M-020	4/7/2009	11:32	Water	X	1
3 CW-03D-020	4/7/2009	15:00	Water	X	1
4 CW-03M-020	4/7/2009	13:14	Water	X	1
5 CW-04D-020	4/7/2009	18:17	Water	X	1
6 CW-04M-020	4/7/2009	16:50	Water	X	1
7 OW-90-020	4/7/2009	9:16	Water	X	1
8 CW-01D-020	4/8/2009	9:12	Water	X	1
9 CW-01M-020	4/8/2009	10:08	Water	X	1
10 OW-02D-020	4/8/2009	12:12	Water	X	1
11 OW-02M-020	4/8/2009	11:03	Water	X	1
12 OW-02S-020	4/8/2009	13:23	Water	X	1
				TOTAL NUMBER OF CONTAINERS	12

T = 2.9°C

	Signatures	Date/Time
Approved by		4-8-09
Sampled by		
Relinquished by		1540
Received by	Rafael Davila	4-8-09 15:45
Relinquished by	Rafael Davila	4-8-09 21:30
Received by		4-8-09

Keith Stout 4/9/09 0900 21:30

Shipping Details
Method of Shipment: courier
On Ice: yes / no
Airbill No:
Lab Name:
Lab Phone:

ATTN:
Sample Custody

Special Instructions:

Report Copy to
Shawn Duffy
(530) 229-3303

Relinquish: Keith Stout 4/9/09 1417 Recvd By:

1604

CLIENT: CH2M HILL TOPOCK

SDG: 09A098

Analyst names:

1. SM4500NO3: Elena Robles

CASE NARRATIVE

CLIENT: **CH2M HILL**

PROJECT: **PG&E'S TOPOCK GAS COMPRESSOR STAT**

SDG: **09D098**

METHOD SM4500NO3
NITRATE/NITRITE-N

Twelve (12) water samples were received on 04/09/09 for Nitrate/Nitrite-N analysis by Method SM4500NO3 in accordance with "Standard Method for the Examination of Water and Wastewater".

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Sample D098-01 was analyzed for duplicate. %RPD was within QC limit.

5. **Matrix Spike/Matrix Spike Duplicate**

   Sample D098-01 was spiked. Recoveries were within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD SM4500NO3
NITRATE/NITRITE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 09D098

Matrix : WATER
Instrument ID : 170

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	NAD004WB	ND	1	NA	0.100	0.0200	04/17/0918:10	NA	NAD00411	NAD00408	NAD004W	NA	NA
LCS1W	NAD004WL	0.511	1	NA	0.100	0.0200	04/17/0918:10	NA	NAD00412	NAD00408	NAD004W	NA	NA
LCD1W	NAD004WC	0.501	1	NA	0.100	0.0200	04/17/0918:11	NA	NAD00413	NAD00408	NAD004W	NA	NA
CW-02D-020	D098-01	2.78	5	NA	0.500	0.100	04/17/0918:12	NA	NAD00414	NAD00408	NAD004W	04/07/0910:16	04/09/09
CW-02D-020DUP	D098-01D	2.83	5	NA	0.500	0.100	04/17/0918:12	NA	NAD00415	NAD00408	NAD004W	04/07/0910:16	04/09/09
CW-02D-020MS	D098-01M	3.26	5	NA	0.500	0.100	04/17/0918:13	NA	NAD00416	NAD00408	NAD004W	04/07/0910:16	04/09/09
CW-02D-020MSD	D098-01S	3.24	5	NA	0.500	0.100	04/17/0918:13	NA	NAD00417	NAD00408	NAD004W	04/07/0910:16	04/09/09
CW-02M-020	D098-02	1.95	5	NA	0.500	0.100	04/17/0918:13	NA	NAD00418	NAD00408	NAD004W	04/07/0911:32	04/09/09
CW-03D-020	D098-03	2.64	5	NA	0.500	0.100	04/17/0918:15	NA	NAD00421	NAD00419	NAD004W	04/07/0915:00	04/09/09
CW-03M-020	D098-04	0.835	2	NA	0.200	0.0400	04/17/0918:17	NA	NAD00422	NAD00419	NAD004W	04/07/0913:14	04/09/09
CW-04D-020	D098-05	2.11	5	NA	0.500	0.100	04/17/0918:18	NA	NAD00423	NAD00419	NAD004W	04/07/0918:17	04/09/09
CW-04M-020	D098-06	1.48	2	NA	0.200	0.0400	04/17/0918:18	NA	NAD00424	NAD00419	NAD004W	04/07/0916:50	04/09/09
OW-90-020	D098-07	0.842	2	NA	0.200	0.0400	04/17/0918:18	NA	NAD00425	NAD00419	NAD004W	04/07/0909:16	04/09/09
CW-01D-020	D098-08	2.95	5	NA	0.500	0.100	04/17/0918:18	NA	NAD00426	NAD00419	NAD004W	04/08/0909:12	04/09/09
CW-01M-020	D098-09	2.79	5	NA	0.500	0.100	04/17/0918:19	NA	NAD00427	NAD00419	NAD004W	04/08/0910:08	04/09/09
OW-02D-020	D098-10	2.87	5	NA	0.500	0.100	04/17/0918:19	NA	NAD00428	NAD00419	NAD004W	04/08/0912:12	04/09/09
OW-02M-020	D098-11	2.86	5	NA	0.500	0.100	04/17/0918:20	NA	NAD00431	NAD00429	NAD004W	04/08/0911:03	04/09/09
OW-02S-020	D098-12	3.70	5	NA	0.500	0.100	04/17/0918:21	NA	NAD00432	NAD00429	NAD004W	04/08/0913:23	04/09/09

EMAX

09D118

CH2MHILL

CHAIN OF CUSTODY RECORD

4/10/2009 8:25:38 AM

Project Name PGE Topock
Location Topock
Project Number 370367.MP.02.CM.01
Project Manager Jay Piper
Sample Manager Matt Ringier

Task Order
Project 2009-CMP-020
Turnaround Time 12 Days
Shipping Date: 4/9/2009
COC Number: 6

	Container:	1 Liter Poly
	Preservatives:	H2SO4, pH<2, 4°C
	Filtered:	NA
	Holding Time:	28

		DATE	TIME	Matrix	Nitrate/Nitrite (SM4500NO3-E)		Number of Containers	COMMENTS
1	OW-01D-020	4/8/2009	16:16	Water	X		1	
2	OW-01M-020	4/8/2009	14:24	Water	X		1	
3	OW-01S-020	4/8/2009	15:08	Water	X		1	
4	OW-05S-020	4/8/2009	17:04	Water	X		1	
5	OW-91-020	4/8/2009	8:25	Water	X		1	
6	OW-05D-020	4/9/2009	10:05	Water	X		1	
7	OW-05M-020	4/9/2009	8:51	Water	X		1	
						TOTAL NUMBER OF CONTAINERS	7	

T= 2.8°C

	Signatures	Date/Time
Approved by		
Sampled by		
Relinquished by		
Received by	Falipa Reyes	4/10/09 15:40
Relinquished by	Falipa Reyes	4/10/09 22:20
Received by	Rafael Davila	4-11-09 4:00

Shipping Details
Method of Shipment: courier
On Ice: yes / no
Airbill No:
Lab Name: EMAX
Lab Phone:

ATTN:
Sample Custody

Special Instructions:

Report Copy to
Shawn Duffy
(530) 229-3303

1 of 1

CLIENT: CH2M HILL TOPOCK

SDG: 09D118

Analyst names:

1. SM4500NO3: Elena Robles

CASE NARRATIVE

CLIENT: CH2M HILL

PROJECT: PG&E'S TOPOCK GAS COMPRESSOR STAT

SDG: 09D118

METHOD 4500NO3
NITRATE/NITRITE-N

Seven (7) water samples were received on 04/13/09 for Nitrate/Nitrite-N analysis by Method 4500NO3 in accordance with "Standard Methods for the Examination of Water and Wastewater", 18th ed. (1990).

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Results were within QC limit.

4. Duplicate

Sample D118-01 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike/Matrix Spike Duplicate

Sample D118-01 was spiked. Recoveries were within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD SM4500NO3
NITRATE/NITRITE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 09D118

Matrix : WATER
Instrument ID : I70

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	NAD005WB	ND	1	NA	0.100	0.0200	04/22/0917:57	NA	NAD00511	NAD00508	NAD005W	NA	NA
LCS1W	NAD005WL	0.512	1	NA	0.100	0.0200	04/22/0917:57	NA	NAD00512	NAD00508	NAD005W	NA	NA
LCD1W	NAD005WC	0.510	1	NA	0.100	0.0200	04/22/0917:57	NA	NAD00513	NAD00508	NAD005W	NA	NA
OW-01D-020	D118-01	3.70	5	NA	0.500	0.100	04/22/0917:58	NA	NAD00514	NAD00508	NAD005W	04/08/0916:16	04/13/09
OW-01D-020DUP	D118-01D	3.72	5	NA	0.500	0.100	04/22/0917:58	NA	NAD00515	NAD00508	NAD005W	04/08/0916:16	04/13/09
OW-01D-020MS	D118-01M	4.23	5	NA	0.500	0.100	04/22/0917:58	NA	NAD00516	NAD00508	NAD005W	04/08/0916:16	04/13/09
OW-01D-020MSD	D118-01S	4.21	5	NA	0.500	0.100	04/22/0917:58	NA	NAD00517	NAD00508	NAD005W	04/08/0916:16	04/13/09
OW-01M-020	D118-02	3.60	5	NA	0.500	0.100	04/22/0917:58	NA	NAD00518	NAD00508	NAD005W	04/08/0914:24	04/13/09
OW-01S-020	D118-03	3.10	5	NA	0.500	0.100	04/22/0917:59	NA	NAD00521	NAD00519	NAD005W	04/08/0915:08	04/13/09
OW-05S-020	D118-04	4.14	5	NA	0.500	0.100	04/22/0918:00	NA	NAD00522	NAD00519	NAD005W	04/08/0917:04	04/13/09
OW-91-020	D118-05	3.23	5	NA	0.500	0.100	04/22/0918:00	NA	NAD00523	NAD00519	NAD005W	04/08/0908:25	04/13/09
OW-05D-020	D118-06	3.43	5	NA	0.500	0.100	04/22/0918:00	NA	NAD00524	NAD00519	NAD005W	04/09/0910:05	04/13/09
OW-05M-020	D118-07	4.73	5	NA	0.500	0.100	04/22/0918:00	NA	NAD00525	NAD00519	NAD005W	04/09/0908:51	04/13/09

Appendix B
Field Data Sheets, Second Quarter 2009

Project Name PGE Topock CMP — **Sampling Event** 2009-CMP-020

Job Number 370367.MP.02.CM.01 — Date 4/8/09

Sampler A. Abell — Field Team 1 — Field Conditions clear, sunny, low 70s, high 90s, Wind from West 7-10 knots — Page 1 of 1

PGE

Well/Sample Number CW-01D-020 — **QC Sample ID** NA — QC Sample Time —

Purge Start Time ~~0830~~ 0838 — 9:15 — Purge Method Temp. — Ded. Pump No

Flow Cell: (Y) / N — Min. Purge Volume (gal)/(L) 97.6 — Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons/liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	0846	25.5									
109.07	~~0845~~	~~16.5~~	7.69	7.431	6.3	5.37	29.53	4.06	4.824	87.3	301.10 Hz
109.15	0848	~~32.5~~ 33	7.76	7.425	2.6	5.76	29.19	4.06	4.827	84.7	
109.34	0855	~~48.5~~ 49	7.757	7.423	1.3	5.80	29.12	4.07	4.831	82.2	
109.36	0859	~~64.5~~ 66	7.74	7.435	1.2	5.78	29.15	4.07	4.833	80.5	
109.37	~~0900~~ 0905	~~80.5~~ 82	7.74	7.430	1.0	5.78	29.16	4.07	4.833	79.6	
109.41	0910	~~97.6~~ 99	7.74	7.430	0.7	5.77	29.16	4.07	4.830	78.8	

Parameter Stabilization Criteria		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?		Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement	(11/4/2008)	7.83	7679	1	5.9	29.93	0.5		99.7
Are measurements consistent with previous?		Y	Slightly lower	Y	lower	NA	—	—	higher

Sample Time 0912 — Sample Location: pump tubing X — well port — spigot — bailer — other —

Comments:

Initial Depth to Water (ft BTOC): 108.89 — Measure Point: (Well TOC) Steel Casing — WATER LEVEL METER SERIAL NUMBER: PGE 2005-03

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

WD (Well Depth - from database) ft btoc (300.2000

SWH (Standing Water Height) = WD-Initial Depth 191.31

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

One Casing Volume = D*SWH 32.5

Three Casing Volumes = 97.6

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 807
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 0922
806	108.89	0927	109.32	

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 9/8/09
Sampler A. Abbott Field Team 1 Field Conditions Sunny, low 70s, clear, wind from West 0-5 mph
Page 1 of 1

Well/Sample Number CW-01M-020 **QC Sample ID** NA QC Sample Time N/A
Purge Start Time 0946 - 10:11 Purge Method Temp Ded. Pump No
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 40.8 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
109.03	0950	8	7.80	7.466	26.5	5.17	29.59	4.08	4.850	60.5	
109.02	0954	16	7.77	7.462	13.8	5.17	29.68	4.09	4.853	67.9	
109.02	0958	24	7.76	7.461	4.7	5.17	29.70	4.09	4.852	72.7	
109.01	1002	32	7.76	7.465	2.9	5.18	29.71	4.09	4.851	74.8	
109.02	1006	40.8	7.75	7.467	1.7	5.20	29.74	4.08	4.82	76.5	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (11/4/2008)	7.83	7699	1	6.38	29.93	0.5		104.5
Are measurements consistent with previous?	Y	Y	Y	slightly lower	NA	—	—	higher

Sample Time 1008 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 108.98
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (190)
SWH (Standing Water Height) = WD-Initial Depth 80.02
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH ~~7985~~ 13.6
Three Casing Volumes = ~~23~~ 40.8

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	Initial DTW	Time	Final DTW
0930	108.98	1019	108.02

Time of Removal 0940
Time of Reinstallation 1014
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 CMP
Job Number 370367.MP.02.CM.01
Sampler A. Abel / C. Nguyen Field Team 1 Field Conditions Sunny, clear sky, low 70s, calm

Sampling Event 2009-CMP-020
Date 4/7/09
Page 1 of 1

Well/Sample Number CW-02D-020
QC Sample ID NA
QC Sample Time —
Purge Start Time 09:29 - 10:20
Purge Method Temp Ded. Pump NO
Flow Cell: (Y) N
Min. Purge Volume (gal)/(L) 134.2 Purge Rate (gpm)/(mLpm) ~~2~~ 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Dlss. Oxygen mg/L	Temp. °C	Salinity ~~%~~ ppt	TDS g/L	Eh/ORP mv	Comments (See description below
92.09	0936	27	8.20	7.765	9.5	6.30	30.11	4.26	5.047	75.7	
92.02	0941	54	8.00	7.768	3	6.47	30.68	4.26	5.050	67.8	
92.03	0950	81	7.93	7.768	1.9	6.46	30.74	4.26	5.049	61.6	
92.03	1005	108	7.78	7.766	2.1	6.47	30.77	4.26	5.049	58.8	
92.03	~~1009~~ 1010	~~135~~ 134	7.78	7.768	1.9	6.44	30.78	4.26	5.048	57.3	
92.03	1014	135	7.79	7.769	1.7	6.45	30.79	4.26	5.048	56.0	

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	(11/5/2008)	8.07	7597	0.8	5.37	30.79	0.49		87.4
Are measurements consistent with previous?		Y	Y	Y	Y	NA	—	—	Y

Sample Time 10:16 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 91.86
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (355)
SWH (Standing Water Height) = WD-Initial Depth 263.14
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH ~~526.28~~ CuN ~~263~~ 44.7
Three Casing Volumes = ~~1578~~ CuN 134.2

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

Initial DTW / Before Removal	
Time	Initial DTW
938	91.86

Comments: ____

If Transducer

Approx. 5 min After ReInstallation	
Time	Final DTW
1035	91.82

Time of Removal 08:40
Time of Reinstallation 1027

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 CMP
Job Number 370367.MP.02.CM.01
Sampler CW MW / AA Field Team 1 Field Conditions Sunny, clear sky, mid 70's, calm, Light breeze (2mph)
Sampling Event 2009-CMP-020 **Date** 4/7/09 Page 1 of 1

Bill

Well/Sample Number CW-02M-020 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1102 - 1130 Purge Method Temp Ded. Pump NO
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. °C	Salinity % PPT	TDS g/L	Eh/ORP mv	Comments (See description below
92.32	1106	8	7.29	7.749	2.1	2.83	29.48	4.26	5.048	45.5	
92.32	1110	16	7.89	7.730	2.1	3.28	29.66	4.24	5.034	41.1	
92.31	1114	24	7.55	7.725	1.3	3.44	29.68	4.24	5.017	43.8	
92.31	1118	32	7.56	7.706	1.6	3.44	29.69	4.23	5.013	43.6	
92.30	1122	40	7.57	7.708	1.7	3.43	29.71	4.24	5.017	43.3	
92.30	1126	48	7.58	7.707	3.4	3.43	29.71	4.23	5.017	42.6	
92.30	1130	56	7.54	7.713	1.3	3.44	29.70	4.23	5.012	42.4	

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 (11/5/2008)	7.9	7577	0.7	2.22	29.62	0.49		76.6
Are measurements consistent with previous?	✓ Y	✓ Y	✓ Y	≈ Y (slightly higher)	NA	—	—	slightly higher

Sample Time 1132 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 92.24
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (202)
SWH (Standing Water Height) = WD-Initial Depth 109.76
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 18.6592
Three Casing Volumes = 55.978

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 1041 / Time of Reinstallation 1149
1040	92.24	1149	92.20	

Comments:

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

Project Name PGE Topock CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/7/09
Sampler AA/CNW Field Team 1 Field Conditions sunny, clear sky, E 5mph low 90s Page 1 of 1

BJL

Well/Sample Number CW-03D-020 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1409 Purge Method Temp Ded. Pump NO
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 135 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
~~79.99~~ ~~76.94~~ (corr)	1418	27	8.0	7.730	2.7	4.46	29.74	4.20	5.036	23.4	
76.42	1427	54	7.69	7.794	5.9	~~6.19~~ (corr)	30.52	4.24	5.069	48.9	
76.43	1437	84	7.62	7.795	2.1	6.22	30.63	4.27	5.051	37.7	
76.43	1445	108	7.74	7.763	1.4	6.22	30.65	4.20	4.971	39.5	
76.42	1454	135	7.78	7.774	1.2	6.21	30.72	4.24	5.003	41.8	
76.42	1456	141	7.77	7.643	1.1	6.21	30.73	4.20	4.998	40.2	

Parameter Stabilization Criteria		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?		Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement	(11/5/2008)	8.09	7656	1	5.31	30.67	0.5		83.6
Are measurements consistent with previous?		slightly lower	Y	Y	Y	NA	—	—	Y

Sample Time 1500 Sample Location: pump tubing X well port spigot bailer other
Comments: 1541 Collect EB OW-87-020. NEEDS A LOCK!! (Note for Barry)

Initial Depth to Water (ft BTOC): ~~76.94~~ (corr) 76.44
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (340)
SWH (Standing Water Height) = WD-Initial Depth 263.56
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 44.8
Three Casing Volumes = 134.4

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	1346
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1510
1344	76.44	1515	76.30		

Comments:

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

Project Name PGE Topock CMP
Job Number 370367.MP.02.CM.01
Sampler AA/CWN Field Team 1 Field Conditions clear sky, sunny, low 80, SE 5 mph
Sampling Event 2009-CMP-020
Date 4/7/09
Page 1 of 1
BiL

Well/Sample Number CW-03M-020 **QC Sample ID** OW-90-020 QC Sample Time 09/6
Purge Start Time 1228 - 1320 Purge Method Temp Ded. Pump NO
Flow Cell: Y / N Min. Purge Volume (gal)/(L) 74 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
77.14	1235	15	7.47	9.640	18.6	0.30	29.56	5.43	6.336	30.8	
77.13	1243	30	7.24	9.785	3.0	0.49	29.72	5.47	6.376	30.9	
77.12	1250	45 (L)	7.44	9.645	3.3	0.52	29.78	5.38	6.290	30.4	
77.13	1259 (L)	~~60~~ 62	7.51	9.728	1.7	0.51	29.80	5.43	6.322	29.1	
77.13	1305	75	~~7.40~~ 7.40 (LW)	9.598	1.3	~~0.50~~ 0.51 (LW)	29.80	5.41	6.290	28.7	
77.13	1309	83	7.39	9.610	1.3	0.51	29.81	5.34	6.265	27.8	
77.13	1311	87	7.43	9.630	1.2	0.51	29.80	5.39	6.249	27.3	
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 Stablize prior to sampling?			yes	yes	yes	yes	NA	yes	NA	yes	
Previous Field measurement (11/5/2008)			7.69	9333	0.8	0.35	29.84	0.6		68.8	
Are measurements consistent with previous?			lower	yes	yes	yes	NA	yes	NA	yes	

Sample TIme 1314 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 77.01
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (222)
SWH (Standing Water Height) = WD-Initial Depth 144.99
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 24.65
Three Casing Volumes = 73.94

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 1218 / Time of Reinstallation 1330
1216	77.01	1335	76.94	

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

Apr 30 09 03:47p Barry Collom 760-326-3308 p.17

Project Name PGE Topock CMP
Job Number 370367.MP.02.CM.01
Sampler A. Abbott / C. Newman Field Team 1 Field Conditions sunny clear, low 40s, SE 15 knots
Sampling Event 2009-CMP-020
Date 4/7/09
Page 1 of 1

Well/Sample Number CW-04D-020
QC Sample ID NA
QC Sample Time NA
Purge Start Time 1731 - 1818
Purge Method Temp
Ded. Pump NO
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) 124
Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below)
61.23	1738	~~25~~ 21	7.46	8.097	1.1	5.36	29.50	4.45	5.245	33.9	
61.26	1745	~~50~~ 42	7.54	8.005	5.4	6.19	30.18	4.40	5.200	35.1	
61.30	1752	~~75~~ 63	7.56	8.800	1.7	5.32	30.42	4.85	5.714	36.0	
61.31	1759	~~100~~ 84	7.55	9.255	1.2	4.82	30.46	5.12	6.017	35.4	
61.31	1806	~~125~~ 105	7.54	9.361	1.0	4.68	30.48	5.20	6.095	35.3	
61.31	1813	126	7.56	9.437	1.0	4.62	30.49	5.26	6.144	36.2	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement	(11/5/2008)		7.9	10340	0.6	2.82	30.44	0.67		111.8	
Are measurements consistent with previous?			lower	lower	Y	slightly higher	NA	—	—	yes	

Sample Time 18:17 Sample Location: pump tubing X well port ___ spigot ___ bailer ___ other ___
Comments: ___

Initial Depth to Water (ft BTOC): 60.84
Field measured confirmation of Well Depth (ft btoc): ~~242.16~~ (CWN)
WD (Well Depth - from database) ft btoc (303)
SWH (Standing Water Height) = WD-Initial Depth 242.16
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 41.167
Three Casing Volumes = 123.5

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	1716
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1829
1714	60.84	18:33	60.92		

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/7/09
Sampler A-Abbott Field Team 1 Field Conditions Sunny, clear, low SE, 2 knots, 90s, calm (AA) Page 1 of 1

Well/Sample Number CW-04M-020 **QC Sample ID** NA QC Sample Time N/A
Purge Start Time 1617 - 1652 Purge Method Temp Ded. Pump No
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. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
61.19	1621	9.3	7.51 7.60 (AA)	6.904	33.6	(AA) 3.68	29.53	3.78	4.522	18.7	
61.19	1626	18.6	7.46	6.874	2.4	2.37	29.83	3.75	4.471	23.7	
61.19	1630	28	7.43	6.772	1.7	1.83	29.87	3.68	4.404	25.6	
61.19	1635	37.3	7.44	6.765	1.6	1.58	29.88	3.68	4.403	27.1	
61.19	1639	46.6	7.44	6.739	1.5	1.46	29.87	3.66	4.399	28.4	
61.19	1645	56	7.47	6.757	1.2	1.38	29.90	3.66	4.382	28.7	

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 (11/5/2008)	7.78	6606	0.7	0.78	29.35	0.43		89.6
Are measurements consistent with previous?	slightly lower	lower	yes	slightly higher	NA	—	—	slightly lower

Sample Time 1650 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 60.91
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (169.8000
SWH (Standing Water Height) = WD-Initial Depth 108.89
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 18.51
Three Casing Volumes = 55.53

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	Final DTW	Time of Removal 1606 / Time of Reinstallation 1701
1605	60.91	1708	60.85	

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 CMP | **Sampling Event** 2009-CMP-020
Job Number 370367.MP.02.CM.01 | Date 4/8/09
Sampler AA | Field Team 1 | Field Conditions Few clouds, sunny, clear skies, 62, wind from West 5 knots | Page 1 of 1

Well/Sample Number OW-01D-020 | QC Sample ID NA | QC Sample Time N/A
Purge Start Time 1540 – 1618 | Purge Method Temp | Ded. Pump ND
Flow Cell: Y / N | Min. Purge Volume (gal)/(L) 95 | Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity % PPT	TDS g/L	Eh/ORP mv	Comments (See description below
96.02	1546	19	7.58	7.358	2.4	4.90	29.93	4.02	4.781	79.1	
96.02	1557	38 50	7.64	7.370	4.1	6.31	29.97	4.03	4.790	78.1	
96.02	1600 1550	57 60	7.63	7.369	5.0	6.49	30.01	4.03	4.790	79.2	
96.03	1605	76	7.63	7.370	2.9	6.60	30.06	4.03	4.791	80.1	
96.03	1612	95	7.64	7.370	1.5	6.75	30.04	4.03	4.791	81.5	

Parameter Stabilization Criteria		+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?		Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement	(1/6/2009)	7.86	7321	0.8	6.71	29.66	0.47		-38.2
Are measurements consistent with previous?		Y	Y	Y	Y	NA	—	—	Y

Sample Time 1616 | Sample Location: pump tubing X | well port ____ | spigot ____ | bailer ____ | other ____
Comments: ____

Initial Depth to Water (ft BTOC): 92.53
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (277)
SWH (Standing Water Height) = WD-Initial Depth 184.47
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 31.36
Three Casing Volumes = 94.08

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	1533
1533	92.53	1627	92.50	Time of Reinstallation	1622

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 CMP
Job Number 370367.MP.02.CM.01
Sampler A. Abbott Field Team 1 Field Conditions sunny clear, mid ~~[illegible]~~ 90s, wind west from 5 mph

Sampling Event 2009-CMP-020
Date 4/8/09
Page 1 of 1

PGE

Well/Sample Number OW-01M-020
QC Sample ID NA
QC Sample Time N/A
Purge Start Time 1357-1425
Purge Method Temp Ded. Pump No
Flow Cell: Y / N
Min. Purge Volume (ga)/(L) 47.4 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
93.01	1401	8.0	7.52	7.325	2.7	6.98	29.62	4.01	4.765	78.6	
93.01	1405	16	7.57	7.379	1.6	6.94	29.86	4.04	4.802	80.7	
93.01	1409	24	7.56	7.384	1.3	6.97	29.86	4.01	4.774	83.5	
93.01	~~1413~~ 1413	32	7.55	7.359	0.9	6.98	29.88	4.03	4.780	84.7	
93.23	~~1418~~ 1418	40	7.56	7.351	0.8	6.97	29.90	4.02	4.792	86.0	
93.02	1421	48	7.55	7.349	1.1	6.96	29.91	4.02	4.776	86.9	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (1/6/2009)	7.75	7290	0.5	6.11	29.68	0.47		-57.9
Are measurements consistent with previous?	lower	Y	Y	Y	NA	—	—	slightly higher

Sample Time 1426 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 92.89
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (185.8000
SWH (Standing Water Height) = WD-Initial Depth 92.91
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 15.8
Three Casing Volumes = 47.4

Measure Point: Well TOC Steel Casing
WATER LEVEL METER SERIAL NUMBER: PGE 2005-07

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer	
Time	Initial DTW	Time	Final DTW	Time of Removal	1350
1349	92.89	1433	~~92.82~~ 92.85 ##	Time of Reinstallation	1428

Comments: Difficult to get final WL

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/8/09
Sampler A. Abbott Field Team 1 Field Conditions clear sky, 90, wind from West, 0-5 knots Page 1 of 1

BAL

Well/Sample Number OW-01S-020 **QC Sample ID** OW-91-020 QC Sample Time 0825
Purge Start Time 1454 - 1512 Purge Method Temp Ded. Pump No
Flow Cell: Y N Min. Purge Volume (gal)/(L) 10.5 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / ~~liters~~	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
92.95	1456	2	7.41	3.407	76.8	3.47	27.76	1.77	2.201	46.8	
92.96	1458	4	7.58	3.361	34.0	3.09	28.87	1.74	2.170	54.3	
92.96	1500	6	7.57	3.340	7.7	3.20	28.98	1.76	2.188	57.4	
92.96	1502	8	7.58	3.330	6.0	3.18	29.20	1.72	2.149	61.4	
92.96	1504	10.5	7.57	3.319	4.0	3.18	29.24	1.72	2.155	63.3	

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 Stablize prior to sampling?		Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement	(1/6/2009)	7.76	2979	3	2.98	28.64	0.19		-80
Are measurements consistent with previous?		lower	higher	Y	Y	NA	—	—	Y

Sample Time 1509 Sample Location: pump tubing Y well port ____ spigot ____ bailer ____ other ____
Comments: Pump set @ ~ 1095

Initial Depth to Water (ft BTOC): 92.95
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (113.5)
SWH (Standing Water Height) = WD-Initial Depth 20.65
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 3.5
Three Casing Volumes = 10.5

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE 200-03

Initial DTW / Before Removal		Approx. 5 min After Reinstallation		If Transducer
Time	Initial DTW	Time	Final DTW	Time of Removal 1445
1444	92.95	1525	92.82	Time of Reinstallation 1519

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 CMP — **Sampling Event** 2009-CMP-020
Job Number 370367.MP.02.CM.01 — Date 4/8/09
Sampler A. Abbott — Field Team 1 — Field Conditions sunny, clear, Ws, Low Wind @ 1-5 from West @ Knots — Page 1 of 1

BAC

Well/Sample Number OW-02D-020 — **QC Sample ID** NA — QC Sample Time N/A
Purge Start Time 1128 ~1214 — Purge Method Temp — Ded. Pump No
Flow Cell: (Y) N — Min. Purge Volume (gal)/(L) 129 — Purge Rate (gpm)/(mL.pm) 3

Water Level	Time	Vol. Purged gallons / ~~liters~~	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity ~~%~~ ppt	TDS g/L	Eh/ORP mv	Comments (See description below
91.42	1135	21	7.60	7.325	0.9	5.83	28.09	4.01	4.761	86.3	
91.43	1142	42	7.62	7.319	47.3	7.07	27.97	4.01	4.757	86.8	water looked cloudy
91.42	1149	63	7.62	7.316	2.0	7.52	28.05	4.01	4.755	89.0	
91.42	1156	84	7.62	7.315	0.9	7.51	28.03	4.01	4.756	91.7	
91.42	1203	105	7.61	7.315	0.6	7.51	28.04	4.01	4.755	93.9	
91.42	1210	127	7.61	7.315	0.8	7.47	28.06	4.01	4.755	94.7	

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	(1/6/2009)	7.9	7302	0.5	4.81	27.55	0.47		→ measurements from 5/1/07 - 4/15/08
Are measurements consistent with previous?		Y	Y	Y	Y	NA	—	—	Y

Sample Time 1212 — Sample Location: pump tubing X — well port ___ — spigot ___ — bailer ___ — other ___

Comments: ___

Initial Depth to Water (ft BTOC): 91.19
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (340)
SWH (Standing Water Height) = WD-Initial Depth 248.81
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 42.3
Three Casing Volumes = 126.9

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 1123
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1210
1122	91.19	1123	91.19	

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 CMP
Job Number 370367.MP.02.CM.01
Sampler A. Abbott Field Team 1 Field Conditions sunny, clear sky high 60s low 70s windy from West, 7-10 knots

Sampling Event 2009-CMP-020
Date 4/8/09
Page 1 of 1

KRC

Well/Sample Number OW-02M-020 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1040 – 11:05 Purge Method Temp Ded. Pump NO

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 60.7 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
91.42	1043	10	7.19	7.336	1.2	5.24	29.04	4.01	4.764	88.2	
91.43	1046	20	7.55	7.350	1.1	6.29	28.79	4.03	4.780	88.0	
91.42	1050	30	7.53	7.351	0.8	6.16	28.87	4.02	4.775	90.2	
91.42	1053	40	7.55	7.350	0.9	6.57	28.79	4.03	4.779	91.0	
91.41	1056	50	7.55	7.355	1.0	6.64	28.75	4.02	4.781	92.4	
91.40	1100	61	7.55	7.354	1.0	6.62	28.83	4.02	4.779	93.6	

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 Stablize prior to sampling?		Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement	(1/6/2009)	7.82	7271	0.4	5.97	28.9	0.47		-37.1
Are measurements consistent with previous?		slightly lower	Y	Y	higher	NA	—	—	higher

Sample Time 1103 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): 91.16
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (210.3000
SWH (Standing Water Height) = WD-Initial Depth 119.14
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 20.2
Three Casing Volumes = 60.7

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
1032	91.16	1115	91.25

Time of Removal 1033
Time of Reinstallation ~~1200~~ 1118

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/8/09
Sampler A. Abbott Field Team 1 Field Conditions Sunny, clear, wind from W 10 to 15 knots, 80's Page 1 of 1

BAC

Well/Sample Number OW-02S-020 **QC Sample ID** NA QC Sample Time N/A

Purge Start Time 1304 - 1324 Purge Method Temp Ded. Pump No

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 15 Purge Rate (gpm) (mLpm) ~~mLpm~~ 1 gpm

Water Level	Time	Vol. Purged gallons ~~Liters~~	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
91.92	1306	2.5	7.53	1.853	36.1	6.22	28.75	0.93	1.205	54.0	
91.92	1309	5.0	7.50	1,850	5.6	6.25	28.94	0.93	1,203	66.9	
91.94	1312	8.5	7.95	1,848	3.7	6.23	28.83	0.93	1.201	71.6	
91.94	1315	~~10~~ 11	7.87	1,847	2.2	6.21	28.96	0.93	1.201	74.0	
91.94	1316	12.5	7.91	1,848	2.3	6.22	29.01	0.93	1.202	75.6	
91.94	1319	15	7.90	1,848	1.6	6.23	29.09	0.93	1,201	76.2	

Parameter Stabilization Criteria	+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV
Did Parameters Stablize prior to sampling?	Y	Y	Y	Y	NA	—	—	Y
Previous Field measurement (1/6/2009)	8.17	1807	3	5.11	28.29	0.11		~~64.7~~
Are measurements consistent with previous?	Y	Y	Y	Y	NA	—	—	Y

Sample Time 1323 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: Pump @ ~ 96 ft ~~to~~ below water level. TD sounded 102.45, much shallower than database depth.
1340 Collected Equipment Blank OW-02S-020.

Initial Depth to Water (ft BTOC): 91.55
Field measured confirmation of Well Depth (ft btoc): 102.45
WD (Well Depth - from database) ft btoc (121) ~~40~~
SWH (Standing Water Height) = WD-Initial Depth 29.45
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 5
Three Casing Volumes = 15

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 1259
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1331
12:51	91.55	1337	92.19	

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 CMP
Job Number 370367.MP.02.CM.01
Sampler A Abbott Field Team 1 Field Conditions Sunny, clear, calm, mid-high 70s (Breeze from S occasionally at 5 mph)

Sampling Event 2009-CMP-020
Date 4/9/09
Page 1 of 1

PGE

Well/Sample Number OW-05D-020
QC Sample ID NA
QC Sample Time —
Purge Start Time 0916 - 1006
Purge Method Temp. Ded. Pump No
Flow Cell Y / N
Min. Purge Volume (gal)/(L) 130.4 Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
94.80	0925	27	7.33	7.377	1.5	4.67	28.47	4.04	4.792	79.5	
94.80	0934	54	7.43	7.403	1.1	5.93	28.21	4.06	4.811	80.8	
94.80	0943	81	7.42	7.400	0.9	5.95	28.18	4.06	4.811	82.8	
94.80	0952	108	7.41	7.402	0.8	5.93	28.20	4.06	4.811	84.2	
94.80	1001	135	7.41	7.403	0.9	5.93	28.19	4.06	4.812	85.0	

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	(1/6/2009)	7.78	7316	0.3	4.73	29.45	0.47		-32.7
Are measurements consistent with previous?		lower	Y	Y	Y	NA	—		Y

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

Comments: Collect Equipment Blank OW-89-020 @ 1025.

Initial Depth to Water (ft BTOC): 94.30
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (350)
SWH (Standing Water Height) = WD-Initial Depth 255.62
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 43.4
Three Casing Volumes = 130.4

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER PGE 2005-C13

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation	
Time	Initial DTW	Time	Final DTW
0906	94.30	1018	94.36

Time of Removal 911
Time of Reinstallation 1013

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/9/09
Sampler A. Abbott Field Team 1 Field Conditions Sunny, clear skies, calm, mid-70s Page 1 of 1

Well/Sample Number OW-05M-020 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 820 Purge Method Temp 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. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
94.16	0824	12	7.38	7.399	1.1	4.61	28.14	4.06	4.812	106.2	
94.16	0829	27	7.39	7.405	1.1	5.21	28.58	4.06	4.815	99.1	
94.16	0835	~~39~~ 45	7.39	7.413	2.2	5.26	28.72	4.06	4.818	95.2	
94.16	0838	54	7.38	7.410	1.6	5.26	28.74	4.06	4.815	93.3	
94.16	0842	66	7.38	7.407	1.4	5.24	28.72	4.06	4.815	91.5	
94.16	0847	81	7.38	7.416	0.9	5.23	28.78	4.06	4.820	90.0	
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 (1/6/2009)			7.78	7347	0.3	4.33	29.9	0.47		-57.4	
Are measurements consistent with previous?			lower	Y	Y	Y	NA	—	—	Y	

Sample Time 0851 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 93.70
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (250.3000
SWH (Standing Water Height) = WD-Initial Depth 156.6
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 26.6
Three Casing Volumes = 79.8

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	0814
813	93.70	0901	93.70	Time of Reinstallation	0855

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 CMP
Job Number 370367.MP.02.CM.01
Sampling Event 2009-CMP-020
Date 4/8/09
Sampler AA Field Team 1 Field Conditions partly cloudy, high 70s wind from West 10 mph Page 1 of 1

BLL

Well/Sample Number OW-05S-020 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1646 Purge Method Temp Ded. Pump No
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 9 Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
	1648	1.5	7.55	2.340	71.2	~~68.8~~ (LOW)	27.29	1.18	1.482	24.6	
94.47	1649	3	7.76	2.270	76.4	4.92	28.86	1.16	1.480	45.6	
94.50	1651	4.5	7.73	2.263	90.7	4.99	28.92	1.13	1.448	51.7	
94.50	1652	6	7.73	2.203	63.1	5.11	28.98	1.11	1.443	56.4	
94.50	1654	(Low) ~~6.5~~ 7.5	7.72	2.157	27.7	5.06	29.08	1.10	1.42	62.9	
94.50	1655	(Low) ~~7~~ 9	7.72	2.170	12.1	5.07	29.05	1.09	1.407	66.6	
94.50	1657	10.5	7.72	2.160	8.4	5.07	29.01	1.10	1.393	69.9	
94.50	1658	12	7.71	2.141	6.8	5.13	28.96	1.09	1.399	71.4	
94.5	~~1660~~ (Low) 1700	13.5	7.71	2.128	5.1	5.17	28.98	1.08	1.403	72.6	
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 Stablize prior to sampling?			Y	Y	Y	Y	NA	—	—	Y	
Previous Field measurement (1/6/2009)			8.05	1785	5	5.25	28.26	0.11		-48.6	
Are measurements consistent with previous?			Y	Y Slightly higher	Y	Y	NA	—	—	Y	

Sample Time 1704 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 94.32
Field measured confirmation of Well Depth (ft btoc): —
WD (Well Depth - from database) ft btoc (110.3000
SWH (Standing Water Height) = WD-Initial Depth 15.98
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 2.72
Three Casing Volumes = 8.15

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
1641	94.32	1711	94.33

Time of Removal 1642
Time of Reinstallation 1707
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