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January 15, 2007

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Colorado River Basin Region
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Subject: Interim Measures Compliance Monitoring Program
Semiannual Groundwater Monitoring Report, Second Half 2006
PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue and Mr. Perdue:

Enclosed is the *Semiannual Groundwater Monitoring Report, Second Half 2006* for the Interim Measure Compliance Monitoring Program at the PG&E Topock Compressor Station. This monitoring report presents the results of the third and fourth quarter 2006 CMP groundwater monitoring event, and has been prepared in conformance with RWQCB Order No. R7-2006-0060, as well as DTSC's July 15 letter approving the Compliance Monitoring Plan and June 9, 2006 letter modifying the reporting requirements.

On August 8, 2006 letter, PG&E submitted a revised contingency plan flowchart for groundwater quality changes associated with the injection system. The contingency plan specifies that the concentrations and values for hexavalent chromium, total chromium, total dissolved solids and pH would be used to determine if contingency plan actions were necessary based on sample results. The action levels or water quality objectives used to determine compliance are as follows: hexavalent chromium at 32.6 µg/L, total chromium at 28.0 µg/L, total dissolved solids at 10,800 mg/L, and pH in the range between 7.6 and 8.89 pH units. The reporting of compliance with the contingency plan for the third quarter sampling is contained within this letter.

During the third quarter 2006 monitoring event, a sample from the well OW-2S exceeded the hexavalent chromium action level of 32.6 µg/L (40.4 µg/L), and samples from wells OW-2S and OW-5S exceeded the total chromium action level of 28 µg/L (38.9 and 30.4 µg/L, respectively).

During the fourth quarter 2006 monitoring event, a sample from the well OW-2S exceeded the hexavalent chromium action level of 32.6 µg/L (34.8 µg/L) and the total chromium action level of 28 µg/L (36.2 µg/L). No other samples exceeded the action levels for hexavalent chromium, total chromium, TDS or pH. A review of the water quality parameters indicative of treated groundwater injection (hexavalent chromium, TDS, sulfate, nitrate/nitrite and fluoride) confirm that injected water has not yet reached OW-2S or OW-5S, and these fluctuations in total and hexavalent chromium concentrations are not related to injected water (which has lower chromium concentrations), but are related to the natural variability within the shallower portions of the aquifer.

The contingency plan requires that samples with monitoring parameters that exceed the water quality objectives either be re-analyzed within 28 days or re-sampled within 45 days. For third quarter exceedances OW-2S and OW-5S were re-sampled on October 10 and 11, 2006, which were 18 and 19 days from the receipt of validated third quarter sampling data (data was received on September 22, 2006). Third quarter re-sampling confirmed the exceedance of hexavalent chromium and total chromium at well OW-2S, but showed that the total chromium concentration in well OW-5S had dropped below the water quality objective. For fourth quarter 2006 exceedances, validated sampling data was received on November 21, 2006. Well OW-2S was re-sampled on November 21, 2006. Fourth quarter re-sampling confirmed the exceedance of hexavalent chromium and total chromium at well OW-2S.

All results from re-sampling were provided to DTSC and the RWQCB on November 22, 2006 and December 12, 2006, respectively, for third and fourth quarter exceedances. Consultation meetings were held with DTSC and the RWQCB on December 1, 2006 and December 19, 2006 to discuss additional steps needed after confirmation of the exceedance.

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

Sincerely,

Julie Eakins for Yvonne Meeks

cc. Jose Cortez, RWQCB
Liann Chavez, RWQCB
Christopher Guerre, DTSC

Enclosure

Compliance Monitoring Program Semiannual Groundwater Monitoring Report, Second Half 2006

Interim Measure No. 3
PG&E Topock Compressor Station
Needles, California

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

January 15, 2007

CH2MHILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

Compliance Monitoring Program
Semiannual Groundwater Monitoring Report
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January 15, 2007

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

Serena Lee, P.G. No. 8259
Associate Hydrogeologist

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Acronyms and Abbreviations

CMP	Compliance Monitoring Program
Cr(T)	total dissolved chromium
Cr(VI)	hexavalent chromium
CW	compliance well
DTSC	California Department of Toxic Substances Control
IM	Interim Measure
µg/L	micrograms per liter
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.

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, which 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 contained in this report was performed in accordance with the new 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. R7-2006-0063. This report adheres to requirements established in 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 provides 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, 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. Beginning with the first quarter of 2006 (starting January 22, 2006), operational testing of IW-3 was performed in order to prepare the injection system for the operation of both installed injection wells. During the testing, injection of treated water was divided equally between IW-2 and IW-3. The only use of well IW-3 during the first quarter 2006 was for operational testing. During the second quarter 2006, injection occurred solely at IW-2. In August 2006, IW-2 went offline for routine maintenance, and injection commenced at IW-3. During the fourth quarter 2006, injection has occurred solely at IW-3, except during routine maintenance. Figure 2 shows the locations of the injection wells and the groundwater monitoring wells (observation wells

and compliance monitoring wells) in the CMP. Table 1 summarizes information on well construction and sampling methods for all wells in the CMP.

Under the CMP, as of October 2006, samples are collected from groundwater wells (Figure 2) according to the following schedule:

- Nine observation wells located near the IM No. 3 injection well field are sampled quarterly.
- Eight compliance monitoring wells located around the IM No. 3 injection well field are sampled semiannually.

For both quarterly and semiannual sampling events, laboratory analyses include total dissolved chromium [Cr(T)], hexavalent chromium [Cr(VI)], metals, specific conductance, pH, total dissolved solids (TDS), turbidity, and major inorganic cations and anions. 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 quarterly report presents the results of the second half 2006 (third and fourth quarter) CMP groundwater monitoring events.

2.0 Second Half 2006 Monitoring Activities

This section provides a summary of the monitoring and sampling activities completed during the second half of 2006. The third quarter 2006 monitoring event was conducted on August 30, 31, and September 8, 2006 and consisted of:

- Nine observation monitoring wells (OW series) were sampled for laboratory 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 fourth quarter 2006 event was conducted on October 10-12, 2006 and consisted of:

- Nine observation monitoring wells (OW series) were sampled for laboratory water quality analyses.
- Eight compliance monitoring wells (CW series) were sampled for laboratory water quality analyses.
- Groundwater elevations and field water quality data were collected prior to sampling.
- Two duplicate samples were collected at wells OW-2S and OW-2M to assess field sampling and analytical quality control.

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

The results of the third quarter 2006 monitoring activities have previously been presented in the document *Compliance Monitoring Program Groundwater Monitoring Report, Third Quarter 2006* (CH2M HILL, 2006a). These results are also presented in this semiannual report.

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 are 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 Second Half 2006 Monitoring Results

This section summarizes the results of the CMP groundwater sampling conducted during the second half of 2006. Figure 2 presents the locations of the CMP groundwater wells.

The data presented include results for Cr(VI), Cr(T), 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 for the fourth quarter 2006 monitoring are presented in Appendix A. Laboratory reports for the third quarter 2006 were previously reported in the prior monitoring report (CH2M HILL, 2006a).

3.1 Analytical Results

Seventeen compliance and observation wells were sampled during the fourth quarter 2006 sampling event. Analytical results for Cr(VI) and Cr(T), other metals, and other inorganic parameters are presented in Tables 2, 3, and 4 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).

3.1.1 Hexavalent and Total Chromium

Table 2 presents the Cr(VI) and Cr(T) results for groundwater in the shallow, middle, and deep wells for the second half 2006 CMP sampling events. For shallow wells, the maximum detected Cr(VI) concentration was 40.4 micrograms per liter (µg/L) in well OW-2S on September 8, 2006. For the middle wells, the maximum detected Cr(VI) concentration was 21.2 µg/L in well CW-4M on October 11, 2006. For the deep wells, the maximum detected Cr(VI) concentration was 3 µg/L in well CW-2D on October 11, 2006. During the second half of 2006, two samples exceeded the interim action level of 32.6 µg/L for Cr(VI). The September 8, 2006 and October 10, 2006 samples from well OW-2S had concentrations of 40.4 µg/L and 34.8 µg/L. For these exceedances, the results were not considered to be the result of the injection of treated groundwater, as the average concentration of Cr(VI) from the IM No. 3 treatment plant is less than 0.2 µg/L (CH2M HILL 2006b). Cr(VI) concentrations at OW-2S have been consistently above the WQOs since November 2005. In addition, other parameters that would indicate arrival of the injected water at OW-2S (such as a change in sulfate or TDS concentrations) are not observed in samples from this well. The results are thus considered reflective of the variance in background water quality.

For shallow wells, the maximum detected Cr(T) concentration was 38.9 µg/L in well OW-2S on September 8, 2006. For the middle wells, the maximum detected Cr(T) concentration was 16.8 µg/L in well CW-4M on October 11, 2006. For the deep wells, the maximum detected Cr(T) concentration was 2.6 µg/L in well CW-2D on October 11, 2006. During the second half of 2006, three samples exceeded the interim action level of 28 µg/L for Cr(T). The September 8, 2006 and October 10, 2006 samples from well OW-2S had concentrations of

38.9 µg/L and 36.2 µg/L. The August 31, 2006 sample from OW-5S had a concentration of 30.4 µg/L. Consistent with the Cr(VI) levels found in the same wells, these exceedances of Cr(T) are considered reflective of the variance in background water quality.

3.1.2 Other Metals and Cations

Table 3 presents the other metals and cation results for the CMP groundwater wells sampled during the second half of 2006. Metals and cations detected in the second half of 2006 sampling included aluminum, boron, calcium, total iron, molybdenum, potassium, magnesium, sodium, and vanadium. Concentrations of metals and cations detected during this sampling event are similar to those detected in previous sampling events.

3.1.3 Other Inorganic Analytes

Table 4 presents the results for other inorganic analytes detected in CMP groundwater wells. During the second half of 2006, the detected concentrations of TDS and pH in all observation wells were within the WQOs.

3.2 Analytical Data Quality Review

The laboratory analytical data generated from the second half of 2006 monitoring events 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 third quarter 2006 sampling event, matrix interference was not encountered in any of the groundwater samples.

For the fourth quarter 2006 sampling event, matrix interference was encountered in one groundwater sample that affected the sensitivity for Cr(VI) when using Method SW 7199. The C(VI) sample result from CW-1D 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 both the third and fourth quarter 2006 sampling events, matrix spike acceptance criteria were met.

3.2.3 Quantitation and Sensitivity

For the third quarter 2006 sampling event, method and analyte combinations met the project reporting limit objectives.

For the fourth quarter 2006 sampling event, method and analyte combinations met the project reporting limit objectives, with the following exceptions: the matrix interference

issue explained above and one sulfate result which was qualified as estimated (J flagged) because the sample was over diluted prior to analysis.

3.2.4 Holding Time Data Qualification

For the third quarter 2006 sampling event, method holding time requirements were met.

For the fourth quarter 2006 sampling event, all method holding time requirements were met, with the following exceptions: 10 pH samples and one specific conductance sample were analyzed outside of the recommended holding times due to lab instrumentation issues that required reanalyses of the samples. The pH results were not usable and were rejected (R flagged) and the specific conductance sample was qualified as estimated (J flagged). The laboratory has taken corrective measures to avoid similar issues in the future.

3.2.5 Field Duplicates

For both the third and fourth quarter 2006 sampling events, field duplicate acceptance criteria were met.

For the fourth quarter 2006 sampling event, field duplicate acceptance criteria were met.

3.2.6 Method Blanks

For the third quarter 2006 sampling event, method blank acceptance criteria were met.

For the fourth quarter 2006 sampling event, one method blank contained dissolved copper above its reporting limit. As a result, the copper result for one sample was U flagged to indicate that copper was not detected at the reported result.

3.2.7 Equipment Blanks

For both the third and fourth quarter 2006 sampling events, equipment blank acceptance criteria for the methods were met.

3.2.8 Laboratory Duplicates

For both the third and fourth quarter 2006 sampling events, laboratory duplicate acceptance criteria for the methods were met.

3.2.9 Conclusion

For the third quarter 2006 sampling event, the completeness objectives were met for the method and analyte combinations. No significant analytical deficiencies were identified in the third quarter 2006 data. The analyses and data quality met the QAPP and laboratory method quality control acceptance criteria. Overall, the analytical data are considered acceptable for the purpose of the CMP.

For the fourth quarter 2006 sampling event, the completeness objectives were met for the method and analyte combinations, with the exception of pH. The pH results were incomplete because the recommended holding time was exceeded for the reanalyzed samples. 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 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 5 provides selected analytical results from three of the monthly reports: August 29, 2005, March 18, 2006, and September 7, 2006. 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 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 September 2006 effluent characteristics):

- Cr(VI): typically non-detect (0.001) mg/L
- Cr(T): typically non-detect (0.001) mg/L
- Fluoride: approximately 1.9 mg/L
- Molybdenum: approximately 0.008 to 0.014 mg/L
- Nitrate as nitrogen: approximately 2 to 4 mg/L
- Sulfate: approximately 470 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 5 also lists the results of baseline sampling for the observation wells and compliance wells. A full set of nine OW groundwater samples were collected on July 27 and 28, 2005, and a full set of eight CW groundwater samples were 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 large 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 6 presents a comparison between the treated water quality and the results from the most recent sampling events, the third and fourth quarter 2006 sampling events. These samples were collected after approximately 14 to 15 months of injection. While the pre-injection OW and CW sample results were significantly different from the treated water quality, a number of the OW and CW third and fourth quarter 2006 sample results have changed in that these results 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, and CW-1D.

Wells OW-1M, OW-1D, OW-2M, OW-2D, OW-5M, OW-5D, CW-1M and CW-1D 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 remaining CW wells (CW-2M, CW-2D, CW-3M, CW-3D, CW-4M, and CW-4D) show no water quality effects due to injection of treated water indicating injected water has not yet reached these depths and locations.

3.3.2 Water Quality Hydrographs

The discussion of analytical results presented in the groundwater monitoring report focuses on the basic statistical representation of the sampling event results and documents the exceedances of the proposed interim action levels, which have largely been isolated point occurrences. While the entire quarterly water quality analytical data set has been supplied in tabular format within each monitoring report to date, trends in these data have not been reported upon before the prior third quarter report (CH2M HILL 2006a). Trend data could 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. Thirty-six analytes are currently monitored quarterly, of which 19 have sufficient detections to make time-series analysis useful. A detection-to-non-detection ratio of greater than 50 percent was used as the criterion to determine which analyte has a useful time-series response. Of these analytes, the majority are in the general minerals category, as common inorganic ionic constituents that are found in natural waters. Eleven of the 19 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 include chloride, Cr(T), fluoride, Cr(VI), molybdenum, nitrate as nitrogen, pH, sodium, sulfate, TDS, and vanadium. Water quality hydrographs (time-series plots) of these 11 analytes in each observation and compliance well 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 hydrograph response 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-2D), 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 of treated water can be inferred from the water quality hydrographs in

both the mid- and deep-interval wells identified as affected by treated water injection. 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. The one exception to this behavior is seen in the response for Cr(VI) and Cr(T) in well OW-2S, which shows an increasing trend over time. Although the Cr(VI) and Cr(T) concentrations measured in this well have changed over time, the other parameters show little variability. TDS, sodium, sulfate, chloride, and molybdenum are particularly consistent and show that the local groundwater quality is not being affected by injection of treated water or outside water sources.

Compliance well water quality hydrographs are presented in Figures 3D and 3E. In general, most of the time-series analyses for the selected constituents show no trend in concentration, with only minor variation over time. There are point occurrences of localized high or low values for a number of compounds, but these do not change the overall trend. For example, the initial February 2005 vanadium results appear to be anomalously high for every one of the compliance wells. Subsequent vanadium sampling results show significantly lower concentration and very little variation over time. Fluoride results also tend to show a spiked response, rather than the smooth trend seen in most of the analyte water quality hydrographs. While it is possible that these apparently anomalous point occurrences reflect some natural process, the overall response seen in the compliance well water quality hydrographs supports a natural system that is undergoing only gradual change for the 15-month period.

3.4 Water Level Measurements

Table 7 presents the manual water level measurements and groundwater elevations for the second half of 2006 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 second half 2006 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 near the injection well IW-2 (and near IW-3 after August 2006) are sensitive to the rate of injection, as can be seen from a cursory inspection of the hydrographs. Water levels used to produce the monthly average groundwater elevation contour plots were taken from a select number of days in which the levels remained reasonably constant. These dates are noted on each figure.

3.4.1 Groundwater Flow Characteristics

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 quarterly (CH2M HILL, 2006c), with flow consistently being shown to move to the east across the uplands portions of the site.

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 has continued to

grow. This mound is centered around the active injection well IW-03. The potentiometric surfaces in prior CMP reports mapped the growth of the groundwater mound over time and show that, after 15 months of injection, the mound has increased in height by 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 September 15, through October 15, 2006 averages. As expected with a mound, the potentiometric surface of the deep wells is broader, while the potentiometric surface of the middle wells is more localized to the vicinity of the injection well. 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. This conclusion is supported by the faster arrival of the treated water to the OW-2 well cluster versus other observation wells, with OW-2 being located along the major axis from IW-02.

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 8 presents the vertical gradient data calculated using the September 15, to October 15, 2006 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. 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 9 summarizes the field water quality data measured during the third and fourth quarter 2006 monitoring events. Field data sheets for the fourth quarter 2006 event are presented in Appendix B. Field documentation for the third quarter 2006 event was previously presented in the prior monitoring report (CH2M HILL, 2006a).

3.6 WDR Monitoring Requirements

Table 10 identifies the laboratory that performed each analysis and lists the following information as required by the WDR for the second half of 2006 monitoring events:

- Sample location
- Sample identification number
- Sampler name
- Sample date
- Sample time

- Laboratory performing analysis
- Analysis method
- Analysis date
- Laboratory technician

4.0 Status of Monitoring Activities

4.1 Quarterly Monitoring

The next quarterly monitoring event will occur during the first quarter of 2007. This event will include the sampling and analysis scope that was presented in the Compliance Monitoring Plan (CH2M HILL, 2005a). The groundwater monitoring report for this quarterly CMP monitoring event will be submitted by April 15, 2007.

4.2 Semiannual Monitoring

The next semiannual monitoring event will occur during the second quarter of 2007. 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).

5.0 References

California Department of Toxic Substances Control (DTSC). 2005. Letter to PG&E. "Conditional Approval for the Start Up and Operation of the Interim Measures No. 3 Treatment System and Injection Wells, Pacific Gas & Electric Company, Topock Compressor Station." July 15.

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CH2M HILL. 2005a. *Groundwater Compliance Monitoring Plan for Interim Measure No. 3 Injection Area, Topock Compressor Station, Needles, California*. June 17.

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_____. 2006b. *October 2006 Monthly Report, Interim Measures No. 3 Groundwater Treatment System, Water Discharge Requirements Order No. R7-2004-0103, Topock Compressor Station*. November 15.

_____. 2006c. *Groundwater and Surface Water Monitoring Report, Second Quarter 2006, Topock Compressor Station, Needles, California.* September 11.

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: January 15, 2007

Tables

TABLE 1

Well Construction and Sampling Summary for Groundwater Samples, Fourth Quarter 2006

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 Installed	Remarks
IM Compliance Wells												
CW-01M	East Mesa	566.07	140 - 190	2 (PVC)	190.0	109.3	Dedi Redi-Flo AR	2	42	165	Active	
CW-01D	East Mesa	566.46	250 - 300	2 (PVC)	300.2	109.1	Temp Redi-Flo AR	3	110	180	Active	
CW-02M	East Mesa	549.45	152 - 202	2 (PVC)	202.0	93.1	Temp Redi-Flo AR	2	55	195	Active	
CW-02D	East Mesa	549.43	285 - 335	2 (PVC)	355.0	93.1	Temp Redi-Flo AR	3	140	159	Active	
CW-03M	East Mesa	534.10	172 - 222	2 (PVC)	222.0	77.7	Temp Redi-Flo AR	2	75	180	Active	
CW-03D	East Mesa	534.14	270 - 320	2 (PVC)	340.0	77.6	Temp Redi-Flo AR	3	140	143	Active	
CW-04M	East Mesa	518.55	119.5 - 169.8	2 (PVC)	169.8	61.8	Temp Redi-Flo AR	2	60	160	Active	
CW-04D	East Mesa	518.55	233 - 283	2 (PVC)	303.0	61.8	Temp Redi-Flo AR	3	120	134	Active	
IM Observation Wells												
OW-01S	East Mesa	550.15	83.5 - 113.5	2 (PVC)	113.5	94.4	Temp Waterra Hyd.	1	15	100	Active	
OW-01M	East Mesa	550.36	165 - 185	2 (PVC)	185.8	93.6	Temp Redi-Flo AR	2	54	109.6	Active	
OW-01D	East Mesa	550.36	257 - 277	2 (PVC)	277.0	93.1	Temp Redi-Flo AR	3	100	111.4	Active	
OW-02S	East Mesa	548.75	71 - 101	2 (PVC)	121.0	93.1	Temp Waterra Hyd.	2	15	100	Active	
OW-02M	East Mesa	548.52	190 - 210	2 (PVC)	210.3	91.8	Temp Redi-Flo AR	3	60	111.4	Active	
OW-02D	East Mesa	549.01	310 - 330	2 (PVC)	340.0	92.1	Temp Redi-Flo AR	3	120	110.3	Active	
OW-05S	East Mesa	551.75	70 - 110	2 (PVC)	110.3	95.9	Temp Waterra Hyd.	1	9	100	Active	
OW-05M	East Mesa	551.75	210 - 250	2 (PVC)	250.3	94.3	Temp Redi-Flo AR	3	80	112.5	Active	
OW-05D	East Mesa	552.35	300 - 320	2 (PVC)	350.0	94.4	Temp Redi-Flo AR	3	135	113.2	Active	

NOTES:

AMSL	above mean sea level
BGS	below ground surface
BTOC	below top of polyvinyl chloride (PVC) casing
Dedi	dedicated
Redi-Flo AR	adjustable-rate electric submersible pump
Temp	temporary
Hyd	Hydrolift, Waterra inertial pump

Depth to water shown is the most recently measured depth to water.
Well depth, screen interval and water level depths rounded-off to whole-foot values.
All wells were purged and sampled using well-volume method.

TABLE 2
Chromium Results for Groundwater Samples, Third and Fourth Quarter 2006
PG&E Topock Compliance Monitoring Program

		Method:	SW7199	SW6020A, SW6010B
Location ID	**Sample Date**		**Hexavalent Chromium (µg/L)**	**Dissolved Chromium (µg/L)**
CW-01M	10/11/2006		12.7	12.1
CW-01D	10/10/2006		ND (1.0)	1.30
CW-02M	10/11/2006		15.6	14.3
CW-02D	10/11/2006		3.00	2.60
CW-03M	10/10/2006		11.3	9.40
CW-03D	10/11/2006		2.50	2.00
CW-04M	10/11/2006		21.2	16.8
CW-04D	10/11/2006		2.30	2.40
OW-01S	8/31/2006		20.5	23.0
OW-01S	10/10/2006		19.9	16.2
OW-01M	8/31/2006		1.30	2.60
OW-01M	10/10/2006		0.81	ND (1.0)
OW-01D	8/31/2006		0.84	1.20
OW-01D	10/12/2006		1.00	ND (1.0)
OW-02S	9/8/2006	(FD)	38.2	38.9
OW-02S	9/8/2006		40.4	35.4
OW-02S	10/10/2006		34.2	36.2
OW-02S	10/10/2006	(FD)	34.8	34.2
OW-02M	8/30/2006		0.97	1.20
OW-02M	10/10/2006		1.40	ND (1.0)
OW-02M	10/10/2006	(FD)	1.40	ND (1.0)
OW-02D	8/31/2006		0.49	ND (1.0)
OW-02D	10/10/2006		0.24	ND (1.0)
OW-05S	8/31/2006		28.4	30.4
OW-05S	10/10/2006		25.4	22.1
OW-05M	8/30/2006		5.10	6.50
OW-05M	10/11/2006		2.00	2.00
OW-05D	8/30/2006		ND (0.2)	ND (1.0)
OW-05D	10/11/2006		ND (0.2)	ND (1.0)

NOTES:

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

Hexavalent Chromium is lab filtered and Dissolved Chromium is field filtered.

TABLE 3
Metal and Cation Results for Groundwater Samples, Third and Fourth Quarter 2006
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Method:	Filtered SW6010B, SW6020A, SW7470A (Mercury)																						
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Boron	Calcium	Iron [1]	Iron	Potassium	Magnesium	Sodium
			µg/L																		mg/L						
CW-01M	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	24.4	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.25	145	ND (0.3)	ND (0.3)	15.5	9.02	1120
CW-01D	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	34.7	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.54	148	ND (0.3)	ND (0.3)	15.5	10.2	1190
CW-02M	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	25.4	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.22	140	ND (0.3)	ND (0.3)	17.7	7.26	1160
CW-02D	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	60.0	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.84	271	ND (0.3)	ND (0.3)	24.2	9.65	2120
CW-03M	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	20.1	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.25	252	ND (0.3)	ND (0.3)	21.1	15.3	1320
CW-03D	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	52.0	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.85	353	ND (0.3)	ND (0.3)	31.7	18.1	2440
CW-04M	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	16.0	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.08	156	ND (0.3)	ND (0.3)	15.6	9.77	937
CW-04D	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	43.6	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.72	353	ND (0.3)	ND (0.3)	25.6	14.7	2230
OW-01S	8/31/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	14.9	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)	0.286	115	0.676	ND (0.3)	13.2	19.3	287
OW-01S	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	0.312	103	ND (0.3)	ND (0.3)	9.70	14.8	269
OW-01M	8/31/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	11.5	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)	1.28	169	ND (0.3)	ND (0.3)	21.8	13.9	920
OW-01M	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	ND (5.0)	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.47	181	ND (0.3)	ND (0.3)	17.8	12.2	1030
OW-01D	8/31/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	15.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	6.80	ND (20)	1.31	120	ND (0.3)	ND (0.3)	17.4	8.39	980
OW-01D	10/12/2006		ND (50)	ND (2.0)	ND (5.0)	ND (300)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.3)	ND (1.0)	ND (500)	ND (0.2)	16.6	ND (20)	ND (5.0)	ND (1.0)	ND (1.0)	5.95	ND (20)	1.30	120	ND (0.3)	ND (0.3)	10.3	9.61	1460
OW-02S	9/8/2006	(FD)	66.5	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	44.8	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	6.20	ND (20)	0.662	35.9	ND (0.3)	ND (0.3)	7.82	4.86	245
OW-02S	9/8/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	46.2	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	6.70	ND (20)	0.668	37.6	ND (0.3)	ND (0.3)	7.93	4.98	227
OW-02S	10/10/2006		152	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	45.3	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	6.30	ND (20)	0.762	38.2	ND (0.3)	ND (0.3)	7.51	4.84	269
OW-02S	10/10/2006	(FD)	ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	43.2	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	6.70	ND (20)	0.748	36.5	ND (0.3)	ND (0.3)	7.08	4.58	232
OW-02M	8/30/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	13.0	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)	1.22	187	ND (0.3)	ND (0.3)	23.4	16.8	922
OW-02M	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	13.5	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.27	192	ND (0.3)	ND (0.3)	19.6	15.1	1040
OW-02M	10/10/2006	(FD)	ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	11.5	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.24	195	ND (0.3)	ND (0.3)	19.5	15.3	1030
OW-02D	8/31/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	14.4	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)	1.28	196	ND (0.3)	ND (0.3)	22.1	18.0	904
OW-02D	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	12.4	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.20	191	ND (0.3)	ND (0.3)	20.3	18.2	967
OW-05S	8/31/2006		99.1	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	25.2	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	5.20	ND (20)	0.546	56.4	0.314	ND (0.3)	8.22	8.58	187
OW-05S	10/10/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	25.3	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	5.30	ND (20)	0.449	51.7	ND (0.3)	ND (0.3)	8.11	8.38	182
OW-05M	8/30/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	44.7	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (20)	1.35	186	ND (0.3)	ND (0.3)	26.1	11.6	1300
OW-05M	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	27.1	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.43	140	ND (0.3)	ND (0.3)	16.6	8.06	1170
OW-05D	8/30/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	13.0	ND (20)	ND (5.0)	ND (5.0)	ND (1.0)	5.10	ND (20)	1.23	102	ND (0.3)	ND (0.3)	17.8	5.42	1020
OW-05D	10/11/2006		ND (52)	ND (3.0)	ND (5.0)	ND (300)	ND (1.0)	ND (2.0)	ND (5.0)	ND (10)	ND (2.0)	ND (500)	ND (0.2)	12.6	ND (20)	ND (5.0)	ND (5.0)	ND (2.1)	ND (5.0)	ND (20)	1.22	174	ND (0.3)	ND (0.3)	20.9	8.89	1320

NOTES:

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

[1] Unfiltered Iron

TABLE 4
Other Inorganic Results for Groundwater Samples, Third and Fourth Quarter 2006
PG&E Topock Compliance Monitoring Program

	Method:	E120.1	E150.1	E160.1	E180.1	E300.0	E300.0	E300.0	E353.3	E310.1	E310.1	E310.1	E350.2
Location ID	**Sample Date**	**Specific Conductance (uS/cm)**	**pH (pH units)**	**Total Dissolved Solids (mg/L)**	**Turbidity (NTU)**	**Chloride (mg/L)**	**Fluoride (mg/L)**	**Sulfate (mg/L)**	**Nitrate/Nitrite as Nitrogen (mg/L)**	**Alkalinity, bicarb as CaCo3 (mg/L)**	**Alkalinity as carbonate (mg/L)**	**Alkalinity, total as CaCo3 (mg/L)**	**Ammonia as Nitrogen (mg/L)**
CW-01M	10/11/2006	6190	7.86 R	4470	2.88	1990	2.90	357	1.44	50.0	ND (5.0)	50.0	ND (0.5)
CW-01D	10/10/2006	6700	7.76	4260	ND (1.0)	2120	4.98	460	3.78	45.0	ND (5.0)	45.0	ND (0.5)
CW-02M	10/11/2006	6110	7.76 R	3960	ND (1.0)	1880	3.14	370	1.01	49.5	ND (5.0)	49.5	ND (0.5)
CW-02D	10/11/2006	12300	7.80 R	6310	ND (1.0)	3790	3.62	546	1.29	32.5	ND (5.0)	32.5	ND (0.5)
CW-03M	10/10/2006	7820	7.71 R	4860	ND (1.0)	2690	2.77	381	0.831	45.0	ND (5.0)	45.0	ND (0.5)
CW-03D	10/11/2006	13100	7.56 R	9580	ND (1.0)	4500	2.87	615	0.329	32.0	ND (5.0)	32.0	ND (0.5)
CW-04M	10/11/2006	5310	7.76 R	3640	ND (1.0)	1730	2.00	282	1.96	55.0	ND (5.0)	55.0	ND (0.5)
CW-04D	10/11/2006	11500	7.75 R	7510	ND (1.0)	3850	3.20	575	0.469	31.5	ND (5.0)	31.5	ND (0.5)
OW-01S	8/31/2006	2310	7.78	1310	4.21	606	2.41	124	3.58	65.6	ND (5.0)	65.6	ND (0.5)
OW-01S	10/10/2006	2090	7.67	1300	1.86	584	2.57	137	4.02	67.5	ND (5.0)	67.5	ND (0.5)
OW-01M	8/31/2006	7310	7.76	3670	ND (1.0)	1870	1.83	489	2.45	65.6	ND (5.0)	65.6	ND (0.5)
OW-01M	10/10/2006	6180	7.70	4010	0.17	1980	1.98	440	2.98	65.0	ND (5.0)	65.0	ND (0.5)
OW-01D	8/31/2006	7520	7.93	3790	ND (1.0)	1910	2.35	497	3.03	54.1	ND (5.0)	54.1	ND (0.5)
OW-01D	10/12/2006	8380	7.71 R	4970	ND (1.0)	2010	2.62	445	2.79	57.5	ND (5.0)	57.5	ND (0.5)
OW-02S	9/8/2006 (FD)	1770	7.68	1070	1.79	414	4.36	122	4.71	113	ND (5.0)	113	ND (0.5)
OW-02S	9/8/2006	1770	7.68	1100	1.81	409	4.42	120	4.96	103	ND (5.0)	103	ND (0.5)
OW-02S	10/10/2006	1690	7.89	1180	1.18	397	4.93	132	4.99	97.5	ND (5.0)	97.5	ND (0.5)
OW-02S	10/10/2006 (FD)	1700	7.91	1160	ND (1.0)	394	4.92	130	5.37	95.5	ND (5.0)	95.0	ND (0.5)
OW-02M	8/30/2006	7340	7.69	3920	ND (1.0)	2220	1.83	555	2.68	65.1	ND (5.0)	65.1	ND (0.5)
OW-02M	10/10/2006	6570 J	7.64	4180	ND (1.0)	1920	2.02	456	3.27	60.0	ND (5.0)	60.0	ND (0.5)
OW-02M	10/10/2006 (FD)	6250	7.68	3740	ND (1.0)	1980	2.01	443	3.25	65.0	ND (5.0)	65.0	ND (0.5)
OW-02D	8/31/2006	7280	7.87	3680	ND (1.0)	1890	1.71	492	2.83	64.7	ND (5.0)	64.7	ND (0.5)
OW-02D	10/10/2006	6020	7.67	4440	ND (1.0)	2040	1.78	450	3.28	67.5	ND (5.0)	67.5	ND (0.5)
OW-05S	8/31/2006	1700	7.85	902	3.09	389	2.54	118	4.76	88.8	ND (5.0)	88.8	ND (0.5)
OW-05S	10/10/2006	1590	7.76	942	12.4	381	2.60	144 J	5.01	87.5	ND (5.0)	87.5	ND (0.5)
OW-05M	8/30/2006	8400	7.88	4380	ND (1.0)	2680	3.60	531	2.48	52.3	ND (5.0)	52.3	ND (0.5)
OW-05M	10/11/2006	6870	7.91 R	4630	ND (1.0)	2120	3.97	466	3.15	56.5	ND (5.0)	56.5	ND (0.5)
OW-05D	8/30/2006	7620	7.94	3940	ND (1.0)	2280	1.98	534	2.68	72.0	ND (5.0)	72.0	ND (0.5)

TABLE 4
Other Inorganic Results for Groundwater Samples, Third and Fourth Quarter 2006
PG&E Topock Compliance Monitoring Program

	Method:	E120.1	E150.1	E160.1	E180.1	E300.0	E300.0	E300.0	E353.3	E310.1	E310.1	E310.1	E350.2
Location ID	**Sample Date**	**Specific Conductance (uS/cm)**	**pH (pH units)**	**Total Dissolved Solids (mg/L)**	**Turbidity (NTU)**	**Chloride (mg/L)**	**Fluoride (mg/L)**	**Sulfate (mg/L)**	**Nitrate/Nitrite as Nitrogen (mg/L)**	**Alkalinity, bicarb as CaCo3 (mg/L)**	**Alkalinity as carbonate (mg/L)**	**Alkalinity, total as CaCo3 (mg/L)**	**Ammonia as Nitrogen (mg/L)**
OW-05D	10/11/2006	6550	7.88 R	4850	ND (1.0)	1990	1.80	456	3.30	75.0	ND (5.0)	75.0	ND (0.5)

NOTES:

ND parameter not detected at the listed reporting limit
uS/cm microSiemens per centimeter
NTU Nephelometric Turbidity Unit
mg/L milligrams per liter
J concentration or RL estimated by laboratory or data validation
R result exceeded analytical criteria for precision and accuracy; should not be used for project decision making
--- data not collected, available

TABLE 5
Treated Water Quality Compared to OW and CW Pre-injection Water Quality
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Fluoride (mg/L)	Molybdenum (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TDS (mg/L)
Treated Water	8/29/2005	ND(0.001)	ND(0.0021)	1.95	0.0083	3.7	450	3620
Treated Water	3/18/2006	ND(0.001)	ND(0.001)	1.92	0.0082	2.79	482	4040
Treated Water	9/7/2006	ND(0.001)	ND(0.001)	1.93	0.0136	2.5	486	4420
OW-01S	7/28/2005	0.0194	0.0235	2.45	0.0172	3.2	114	1320
OW-01M	7/27/2005	0.0163	0.0189	2.31	0.027	1.01	311	3450
OW-01D	7/27/2005	ND(0.001)	ND(0.0013)	1.14	0.0461	0.321	441	6170
OW-02S	7/28/2005	0.0153	0.0148	3.79	0.0356	3.81	126	1090
OW-02M	7/28/2005	0.0054	0.0057	2.19	0.0324	0.735	342	4380
OW-02D	7/28/2005	ND(0.001)	ND(0.0012)	0.966	0.0512	0.1	616	9550
OW-05S	7/28/2005	0.0234	0.0256	2.3	0.0171	3.55	105	1060
OW-05M	7/28/2005	0.0086	0.0088	2.74	0.0354	0.621	417	5550
OW-05D	7/28/2005	ND(0.001)	ND(0.0012)	1.11	0.057	0.151	480	8970
CW-01M	9/15/2005	0.0181	0.0178	2.34	0.0216	1.11	318	2990
CW-01D	9/15/2005	ND(0.001)	0.0016	0.951	0.0321	0.972	379	6230
CW-02M	9/15/2005	0.0158	0.0155	2.3	0.0231	0.908	342	3500
CW-02D	9/15/2005	ND(0.001)	0.0016	0.982	0.0416	0.28	601	8770
CW-03M	9/15/2005	0.0088	0.0081	2.57	0.0242	0.642	464	4740
CW-03D	9/15/2005	ND(0.001)	ND(0.001)	1.4	0.0292	0.304	672	9550
CW-04M	9/15/2005	0.0192	0.019	1.5	0.0123	1.18	240	3310
CW-04D	9/15/2005	ND(0.001)	ND(0.001)	1.01	0.026	0.188	534	7470

NOTES:

ND Not detected at the listed reporting limit.
Hexavalent chromium samples were analyzed with methods SW7199 and E218.6.
Total chromium samples were analyzed with methods SW6010B, SW6020A, and E200.7. Total chromium samples of the treated water were unfiltered.

TABLE 6
Treated Water Quality Compared to Third and Fourth Quarter 2006 Sampling Event Water Quality
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Fluoride (mg/L)	Molybdenum (mg/L)	Nitrate/Nitrite as Nitrogen (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
Treated Water	8/29/2005	ND (0.001)	ND (0.0021)	1.95	0.0083	3.7	450	3620
Treated Water	3/8/2006	ND (0.001)	ND (0.001)	1.92	0.0082	2.79	482	4040
Treated Water	9/7/2006	ND (0.001)	ND (0.001)	1.93	0.0136	2.5	486	4420
CW-01M	10/11/2006	0.0127	0.0121	2.9	0.0244	1.44	357	4470
CW-01D	10/10/2006	ND (0.001)	0.0013	4.98	0.0347	3.78	460	4260
CW-02M	10/11/2006	0.0156	0.0143	3.14	0.0254	1.01	370	3960
CW-02D	10/11/2006	0.003	0.0026	3.62	0.06	1.29	546	6310
CW-03M	10/10/2006	0.0113	0.0094	2.77	0.0201	0.831	381	4860
CW-03D	10/11/2006	0.0025	0.002	2.87	0.052	0.329	615	9580
CW-04M	10/11/2006	0.0212	0.0168	2	0.016	1.96	282	3640
CW-04D	10/11/2006	0.0023	0.0024	3.2	0.0436	0.469	575	7510
OW-01S	8/31/2006	0.0205	0.023	2.41	0.0149	3.58	124	1310
OW-01S	10/10/2006	0.0199	0.0162	2.57	ND (0.005)	4.02	137	1300
OW-01M	8/31/2006	0.0013	0.0026	1.83	0.0115	2.45	489	3670
OW-01M	10/10/2006	0.00081	ND (0.001)	1.98	ND (0.005)	2.98	440	4010
OW-01D	8/31/2006	0.00084	0.0012	2.35	0.0158	3.03	497	3790
OW-01D	10/12/2006	0.001	0.00126	2.62	0.0166	2.79	445	4970
OW-02S	9/8/2006	0.0404	0.0354	4.42	0.0462	4.96	120	1100
OW-02S	9/8/2006 (FD)	0.0382	0.0389	4.36	0.0448	4.71	122	1070
OW-02S	10/10/2006 (FD)	0.0348	0.0342	4.92	0.0432	5.37	130	1160
OW-02S	10/10/2006	0.0342	0.0362	4.93	0.0453	4.99	132	1180
OW-02M	8/30/2006	0.00097	0.0012	1.83	0.013	2.68	555	3920
OW-02M	10/10/2006 (FD)	0.0014	ND (0.001)	2.01	0.0115	3.25	443	3740
OW-02M	10/10/2006	0.0014	ND (0.001)	2.02	0.0135	3.27	456	4180
OW-02D	8/31/2006	0.00049	ND (0.001)	1.71	0.0144	2.83	492	3680
OW-02D	10/10/2006	0.00024	ND (0.001)	1.78	0.0124	3.28	450	4440
OW-05S	8/31/2006	0.0284	0.0304	2.54	0.0252	4.76	118	902
OW-05S	10/10/2006	0.0254	0.0221	2.6	0.0253	5.01	144 J	942
OW-05M	8/30/2006	0.0051	0.0065	3.6	0.0447	2.48	531	4380
OW-05M	10/11/2006	0.002	0.002	3.97	0.0271	3.15	466	4630
OW-05D	8/30/2006	ND (0.0002)	ND (0.001)	1.98	0.013	2.68	534	3940
OW-05D	10/11/2006	ND (0.0002)	ND (0.001)	1.8	0.0126	3.3	456	4850

TABLE 6
Treated Water Quality Compared to Third and Fourth Quarter 2006 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
J	concentration or RL estimated by laboratory or data validation
---	data not collected or available

TABLE 7
Manual Water Level Measurements and Elevations, Third and Fourth Quarter 2006
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 (percent)	Groundwater/Water Elevation Adjusted for Salinity (feet AMSL)
CW-01M	190	566.07	11-Oct-06	7:16 AM	109.31	0.33	456.64
CW-01D	300	566.46	10-Oct-06	12:57 PM	109.09	0.55	457.34
CW-02M	202	549.45	11-Oct-06	6:57 AM	93.10	0.39	456.24
CW-02D	355	549.43	11-Oct-06	8:03 AM	93.11	0.93	457.04
CW-03M	222	534.10	10-Oct-06	1:30 PM	77.73	0.50	456.33
CW-03D	340	534.14	11-Oct-06	1:38 PM	77.60	0.97	457.32
CW-04M	170	518.55	11-Oct-06	10:43 AM	61.80	0.35	456.59
CW-04D	303	518.55	11-Oct-06	11:42 AM	61.75	0.91	457.39
OW-01S	114	550.15	31-Aug-06	8:30 AM	93.26	0.16	456.83
			10-Oct-06	10:41 AM	93.61	0.15	456.47
OW-01M	186	550.36	31-Aug-06	5:43 AM	93.30	0.47	456.95
			10-Oct-06	11:55 AM	93.56	0.47	456.75
OW-01D	277	550.36	31-Aug-06	7:29 AM	92.85	0.50	457.33
			12-Oct-06	7:25 AM	93.10	0.52	457.23
OW-02S	121	548.75	08-Sep-06	5:00 AM	92.06	0.13	456.60
			10-Oct-06	8:59 AM	92.33	0.11	456.33
OW-02M	210	548.52	30-Aug-06	1:30 PM	91.40	0.50	457.00
			10-Oct-06	9:50 AM	91.80	0.47	456.65
OW-02D	340	549.01	31-Aug-06	12:02 PM	90.96	0.53	457.79
			11-Oct-06	7:50 AM	92.05	0.47	456.82
OW-05S	110	551.75	31-Aug-06	10:32 AM	94.76	0.13	456.92
			10-Oct-06	7:45 AM	95.10	0.11	456.60
OW-05M	250	551.75	30-Aug-06	8:23 AM	94.04	0.64	457.71
			11-Oct-06	10:26 AM	94.35	0.54	457.29
OW-05D	350	552.35	30-Aug-06	9:49 AM	94.09	0.59	458.13
			11-Oct-06	12:26 PM	94.39	0.49	457.69

NOTES:

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

Well depths rounded off to whole foot.

TABLE 8
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	0.0078
CW-02D to CW-02M	0.0083
CW-03D to CW-03M	0.0095
CW-04D to CW-04M	0.0063
OW-01M to OW-01S	0.0027
OW-01D to OW-01M	0.0057
OW-02M to OW-02S	0.0022
OW-02D to OW-02M	0.0073

[a] Positive value signifies an upward gradient.

Gradients calculated using September 15 through October 15, 2006 average groundwater levels.

TABLE 9

Field Parameter Measurements for Groundwater Samples, Third and Fourth Quarter 2006
PG&E Topock Compliance Monitoring Program

Location ID	Sampling Date	Specific Conductance (µS/cm)	Temperature (°C)	pH (pH units)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Salinity (%)
CW-01M	10/11/2006	8340	31.27	7.99	19	1.89	0.99	0.46
CW-01D	10/10/2006	6650	30.57	8.25	29	6.39	1.24	0.36
CW-02M	10/11/2006	6270	28.34	8.12	133	3.13	0.86	0.34
CW-02D	10/11/2006	15500	30.41	8.3	35	3.2	1.08	0.91
CW-03M	10/10/2006	9050	31.58	8.22	104	1.11	1.13	0.51
CW-03D	10/11/2006	17300	30.96	7.6	-209	0.98	1.4	1.03
CW-04M	10/11/2006	5770	30.2	8.08	43	2.94	0.89	0.3
CW-04D	10/11/2006	17000	31.16	8.17	-77	2.32	0.62	1
OW-01S	8/31/2006	2440	29.81	6.97	180	5.54	12.2	0.1
	10/10/2006	1900	28.31	8.05	111	6.31	6.6	0.09
OW-01M	8/31/2006	8280	30.27	7.38	149	6.79	1.7	0.46
	10/10/2006	11700	31.67	8.22	106	6.41	2.42	0.66
OW-01D	8/31/2006	7930	30.4	7.64	73	6.45	7.24	0.43
	10/12/2006	12700	31.12	8.17	70	5.14	4.4	0.72
OW-02S	9/8/2006	1600	27.49	7.89	146	8.13	3.14	0.08
	10/10/2006	1540	28.04	8.25	80	7.83	2.92	0.07
OW-02M	8/30/2006	7700	35	7.46	106	6.79	0.19	0.42
	10/10/2006	11400	32.59	8.18	86	6.42	1.44	0.65
OW-02D	8/31/2006	7850	32.99	7.57	193	6.6	0.94	0.43
	10/10/2006	12000	32.47	8.17	77	6.09	1.51	0.68
OW-05S	8/31/2006	1810	29.8	7.19	190	7.88	16	0.1
	10/10/2006	1430	28.02	8.17	150	7.76	25.7	0.07
OW-05M	8/30/2006	9800	31.31	7.61	75	4.77	0.46	0.55
	10/11/2006	13900	32.14	8.17	31	6.49	1.22	0.83
OW-05D	8/30/2006	---	31.49	7.68	78	6.09	0.61	---
	10/11/2006	11400	32.22	8.09	24	6.89	1.56	0.65

NOTES:

µS/cm	microSiemens per centimeter
°C	degree centigrade
ORP	oxidation reduction potential
mV	millivolts
mg/L	milligrams per liter
NTU	Nephelometric Turbidity Unit
%	percentage
---	data not collected or available or rejected

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-01D	CW-01D-010	Allan Erickson	10/10/2006	2:40:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-01D	CW-01D-010	Allan Erickson	10/10/2006	2:40:00 PM	TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Roger Chen
CW-01M	CW-01M-010	Allan Erickson	10/11/2006	10:30:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	11/27/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-01M	CW-01M-010	Allan Erickson	10/11/2006	10:30:00 AM	TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
CW-02D	CW-02D-010	Allan Erickson	10/11/2006	10:30:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	12/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/17/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng

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Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-02D	CW-02D-010	Allan Erickson	10/11/2006	10:30:00 AM	TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
CW-02M	CW-02M-010	Allan Erickson	10/11/2006	8:45:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	11/27/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-02M	CW-02M-010	Allan Erickson	10/11/2006	8:45:00 AM	EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel

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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
CW-02M	CW-02M-010	Allan Erickson	10/11/2006	8:45:00 AM	TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
CW-03D	CW-03D-010	Allan Erickson	10/11/2006	3:30:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	11/27/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/17/2006	Jane Osorio
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel

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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
CW-03D	CW-03D-010	Allan Erickson	10/11/2006	3:30:00 PM	TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
CW-03M	CW-03M-010	Allan Erickson	10/10/2006	3:30:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel

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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
CW-03M	CW-03M-010	Allan Erickson	10/10/2006	3:30:00 PM	TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Roger Chen
CW-04D	CW-04D-010	Allan Erickson	10/11/2006	2:00:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	12/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio

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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
CW-04D	CW-04D-010	Allan Erickson	10/11/2006	2:00:00 PM	EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel

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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
CW-04D	CW-04D-010	Allan Erickson	10/11/2006	2:00:00 PM	TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
CW-04M	CW-04M-010	Allan Erickson	10/11/2006	12:35:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	11/27/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel

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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
CW-04M	CW-04M-010	Allan Erickson	10/11/2006	12:35:00 PM	TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
OW-01D	OW-01D-009	Allan Erickson	8/31/2006	9:42:00 AM	TLI	EPA 120.1	SC	9/1/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/1/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/7/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	SO4	9/11/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/2/2006	Cherry Dam
					EMXT	EPA 300.0	CL	9/11/2006	Cherry Dam
					EMXT	EPA 310.1	ALKC	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKB	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/7/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel

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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
OW-01D	OW-01D-009	Allan Erickson	8/31/2006	9:42:00 AM	TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/31/2006	Roger Chen
OW-01D	OW-01D-010	Matt Ringier	10/12/2006	9:50:00 AM	TLI	EPA 120.1	SC	10/26/2006	Kim Luck/Tina Acquiat
					TLI	EPA 150.1	PH	11/27/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Mary Jane Mendoza
					EMXT	EPA 300.0	BR	10/13/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/13/2006	Jane Osorio
					EMXT	EPA 300.0	NO3N	10/13/2006	Jane Osorio
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio

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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
OW-01D	OW-01D-010	Matt Ringier	10/12/2006	9:50:00 AM	EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hikarawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					EMXT	EPA 7470A	HGD	10/20/2006	Neol Tan
					EMXT	SW 6020A	ZND	10/19/2006	Jon Elliott
					EMXT	SW 6020A	BAD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	BD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	BED	10/19/2006	Jon Elliott
					EMXT	SW 6020A	CAD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	CDD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	COBD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	CRTD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	CUD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	MND	10/19/2006	Jon Elliott
					EMXT	SW 6020A	FETD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	KD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	MGD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	ASD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	ALD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	VD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	TLD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	SED	10/19/2006	Jon Elliott
					EMXT	SW 6020A	SBD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	PBD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	NID	10/19/2006	Jon Elliott
					EMXT	SW 6020A	NAD	10/19/2006	Jon Elliott

TABLE 10

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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
OW-01D	OW-01D-010	Matt Ringier	10/12/2006	9:50:00 AM	EMXT	SW 6020A	MOD	10/19/2006	Jon Elliott
					EMXT	SW 6020A	AGD	10/19/2006	Jon Elliott
					TLI	SW 7199	CR6	10/12/2006	Stanley Hsieh
OW-01M	OW-01M-009	Allan Erickson	8/31/2006	8:10:00 AM	TLI	EPA 120.1	SC	9/1/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/1/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/7/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	CL	9/14/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/2/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/14/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/7/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel

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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
OW-01M	OW-01M-009	Allan Erickson	8/31/2006	8:10:00 AM	TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/31/2006	Roger Chen
OW-01M	OW-01M-010	Allan Erickson	10/10/2006	1:50:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel

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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
OW-01M	OW-01M-010	Allan Erickson	10/10/2006	1:50:00 PM	TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/10/2006	Roger Chen
OW-01S	OW-01S-009	Allan Erickson	8/31/2006	10:35:00 AM	TLI	EPA 120.1	SC	9/1/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/1/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/7/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	CL	9/11/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/2/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/11/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/7/2006	Karen Hirakawa

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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
OW-01S	OW-01S-009	Allan Erickson	8/31/2006	10:35:00 AM	EMXT	EPA 310.1	ALKT	9/7/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/31/2006	Roger Chen

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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
OW-01S	OW-01S-010	Allan Erickson	10/10/2006	12:20:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel

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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
OW-01S	OW-01S-010	Allan Erickson	10/10/2006	12:20:00 PM	TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Roger Chen
OW-02D	OW-02D-009	Allan Erickson	8/31/2006	2:20:00 PM	TLI	EPA 120.1	SC	9/1/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/1/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/7/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	CL	9/12/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/12/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/2/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/7/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel

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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
OW-02D	OW-02D-009	Allan Erickson	8/31/2006	2:20:00 PM	TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/31/2006	Roger Chen
OW-02D	OW-02D-010	Allan Erickson	10/10/2006	10:18:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng

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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
OW-02D	OW-02D-010	Allan Erickson	10/10/2006	10:18:00 AM	TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Roger Chen
OW-02M	OW-02M-009	Allan Erickson	8/30/2006	3:30:00 PM	TLI	EPA 120.1	SC	8/31/2006	Tina Acquiat
					TLI	EPA 150.1	PH	8/31/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	8/31/2006	Tina Acquiat

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-02M	OW-02M-009	Allan Erickson	8/30/2006	3:30:00 PM	EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	FL	9/1/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/11/2006	Cherry Dam
					EMXT	EPA 300.0	CL	9/11/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/6/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/6/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/6/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel

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Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-02M	OW-02M-009	Allan Erickson	8/30/2006	3:30:00 PM	TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/30/2006	Ali Kharrazi
OW-02M	OW-02M-010	Allan Erickson	10/10/2006	10:40:00 AM	TLI	EPA 120.1	SC	12/6/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/16/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel

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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
OW-02M	OW-02M-010	Allan Erickson	10/10/2006	10:40:00 AM	TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Roger Chen
OW-02S	OW-02S-009	Allan Erickson	9/8/2006	7:31:00 AM	TLI	EPA 120.1	SC	9/11/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/8/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/14/2006	Tina Acquiat
					TLI	EPA 180.1	TRB	9/8/2006	Gautam Savani
					EMXT	EPA 300.0	FL	9/15/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/14/2006	Cherry Dam
					EMXT	EPA 300.0	CL	9/14/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/14/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/14/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/14/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/15/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/14/2006	Kam Ng
					TLI	EPA 6010B	FET	9/15/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel

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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
OW-02S	OW-02S-009	Allan Erickson	9/8/2006	7:31:00 AM	TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/12/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/14/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/14/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/14/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/14/2006	Riddhi Patel
					TLI	SW 7199	CR6	9/8/2006	Roger Chen
OW-02S	OW-02S-010	Allan Erickson	10/10/2006	11:15:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio

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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
OW-02S	OW-02S-010	Allan Erickson	10/10/2006	11:15:00 AM	EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel

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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
OW-02S	OW-02S-010	Allan Erickson	10/10/2006	11:15:00 AM	TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/10/2006	Faisal Raihan
OW-05D	OW-05D-009	Allan Erickson	8/30/2006	12:35:00 PM	TLI	EPA 120.1	SC	8/31/2006	Tina Acquiat
					TLI	EPA 150.1	PH	8/31/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	8/31/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	CL	9/11/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/1/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/11/2006	Cherry Dam
					EMXT	EPA 310.1	ALKC	9/6/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKT	9/6/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKB	9/6/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel

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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
OW-05D	OW-05D-009	Allan Erickson	8/30/2006	12:35:00 PM	TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/30/2006	Ali Kharrazi
OW-05D	OW-05D-010	Allan Erickson	10/11/2006	2:40:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	12/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel

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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
OW-05D	OW-05D-010	Allan Erickson	10/11/2006	2:40:00 PM	TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
OW-05M	OW-05M-009	Allan Erickson	8/30/2006	10:20:00 AM	TLI	EPA 120.1	SC	8/31/2006	Tina Acquiat
					TLI	EPA 150.1	PH	8/31/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	8/31/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	CL	9/11/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/1/2006	Cherry Dam
					EMXT	EPA 300.0	SO4	9/11/2006	Cherry Dam
					EMXT	EPA 310.1	ALKB	9/6/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/6/2006	Karen Hirakawa

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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
OW-05M	OW-05M-009	Allan Erickson	8/30/2006	10:20:00 AM	EMXT	EPA 310.1	ALKT	9/6/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/30/2006	Ali Kharrazi

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05M	OW-05M-010	Allan Erickson	10/11/2006	12:20:00 PM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	12/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/13/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	CL	10/16/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/16/2006	Jane Osorio
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/17/2006	Aksiniya Dimitrova
					TLI	SW 6020A	ASD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	MOD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/30/2006	Riddhi Patel

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05M	OW-05M-010	Allan Erickson	10/11/2006	12:20:00 PM	TLI	SW 6020A	CDD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/30/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/30/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/30/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/11/2006	Faisal Raihan/Stanley Hsieh
OW-05S	OW-05S-009	Allan Erickson	8/31/2006	12:30:00 PM	TLI	EPA 120.1	SC	9/1/2006	Tina Acquiat
					TLI	EPA 150.1	PH	9/1/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	9/7/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	9/1/2006	Romy Marasigan
					EMXT	EPA 300.0	SO4	9/12/2006	Cherry Dam
					EMXT	EPA 300.0	FL	9/7/2006	Cherry Dam
					EMXT	EPA 300.0	CL	9/12/2006	Cherry Dam
					EMXT	EPA 310.1	ALKT	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKB	9/7/2006	Karen Hirakawa
					EMXT	EPA 310.1	ALKC	9/7/2006	Karen Hirakawa
					EMXT	EPA 350.2	NH3N	9/6/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	9/8/2006	Kam Ng
					TLI	EPA 6010B	MGD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	FET	9/11/2006	Riddhi Patel
					TLI	EPA 6010B	NID	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	BD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ZND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	KD	9/13/2006	Riddhi Patel

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05S	OW-05S-009	Allan Erickson	8/31/2006	12:30:00 PM	TLI	EPA 6010B	MND	9/14/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	9/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	9/13/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	9/5/2006	Aksiniya Dimitrova
					TLI	SW 6020A	VD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	AGD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	ASD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	BED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CDD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	COBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CRTD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	CUD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	MOD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	PBD	9/7/2006	Riddhi Patel
					TLI	SW 6020A	SBD	9/8/2006	Riddhi Patel
					TLI	SW 6020A	SED	9/7/2006	Riddhi Patel
					TLI	SW 6020A	TLD	9/7/2006	Riddhi Patel
					TLI	SW 7199	CR6	8/31/2006	Roger Chen
OW-05S	OW-05S-010	Allan Erickson	10/10/2006	9:30:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/11/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	10/14/2006	Tina Acquiat
					EMXT	EPA 180.1	TRB	10/12/2006	Romy Maragisan
					EMXT	EPA 300.0	SO4	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	FL	10/14/2006	Jane Osorio
					EMXT	EPA 300.0	CL	10/14/2006	Jane Osorio
					EMXT	EPA 310.1	ALKT	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKC	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 310.1	ALKB	10/16/2006	Mary Jane Mendoza
					EMXT	EPA 350.2	NH3N	10/19/2006	Karen Hirakawa
					EMXT	EPA 353.3	NO3NO2N	10/18/2006	Kam Ng

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, Third and Fourth Quarter 2006

PG&E Topock Compliance Monitoring Program

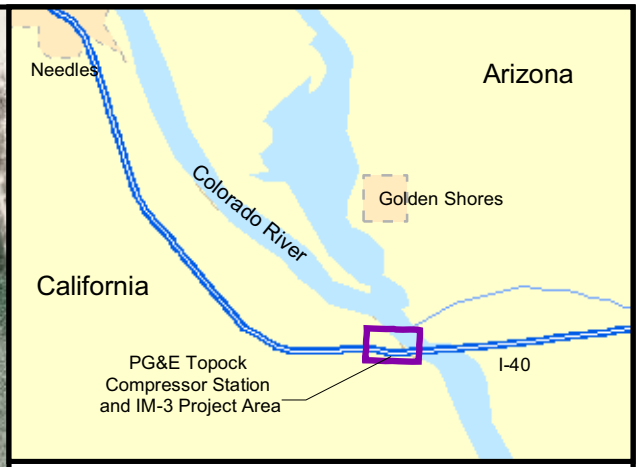
Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05S	OW-05S-010	Allan Erickson	10/10/2006	9:30:00 AM	TLI	EPA 6010B	ZND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	ALD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BAD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	BD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	CAD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	CRTD	10/17/2006	Riddhi Patel
					TLI	EPA 6010B	FETD	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	KD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MGD	10/20/2006	Riddhi Patel
					TLI	EPA 6010B	MND	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	NID	10/13/2006	Riddhi Patel
					TLI	EPA 6010B	FET	12/12/2006	Riddhi Patel
					TLI	EPA 6010B	NAD	10/20/2006	Riddhi Patel
					TLI	EPA 7470A	HGD	10/13/2006	Aksiniya Dimitrova
					TLI	SW 6020A	MOD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	AGD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	ASD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	BED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CDD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	CUD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	PBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SBD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	SED	10/27/2006	Riddhi Patel
					TLI	SW 6020A	TLD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	VD	10/27/2006	Riddhi Patel
					TLI	SW 6020A	COBD	10/27/2006	Riddhi Patel
					TLI	SW 7199	CR6	10/10/2006	Faisal Raihan

NOTES:

TLI	Truesdail Laboratories, Inc.
EMXT	Emax Laboratories, Inc.
WDR	Waste Discharge Requirements

SC	specific conductance	CAD	calcium, dissolved
PH	pH	MOD	molybdenum, dissolved
TDS	total dissolved solids	NID	nickel, dissolved
TRB	turbidity	PBD	lead, dissolved
CRTD	chromium, dissolved	HGD	mercury, dissolved
CR6	hexavalent chromium	SED	selenium, dissolved
CL	chloride	TLD	thallium, dissolved
FL	fluoride	COBD	cobalt, dissolved
ALD	aluminum, dissolved	CDD	cadmium, dissolved
BD	boron, dissolved	BED	beryllium, dissolved
FED	iron, dissolved	AGD	silver, dissolved
MND	manganese, dissolved	VD	vanadium, dissolved
ZND	zinc, dissolved	NO3NO2N	nitrate/nitrite (as N)
SBD	antimony, dissolved	NH3N	ammonia (as N)
ASD	arsenic, dissolved	SO4	sulfate
BAD	barium, dissolved	SBD	antimony, dissolved
CUD	copper, dissolved	ALKB	alkalinity, bicarb.as CACO3
MGD	magnesium, dissolved	ALKC	alkalinity, as carbonate
NAD	sodium, dissolved	ALKT	alkalinity, total as CACO3
KD	potassium, 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

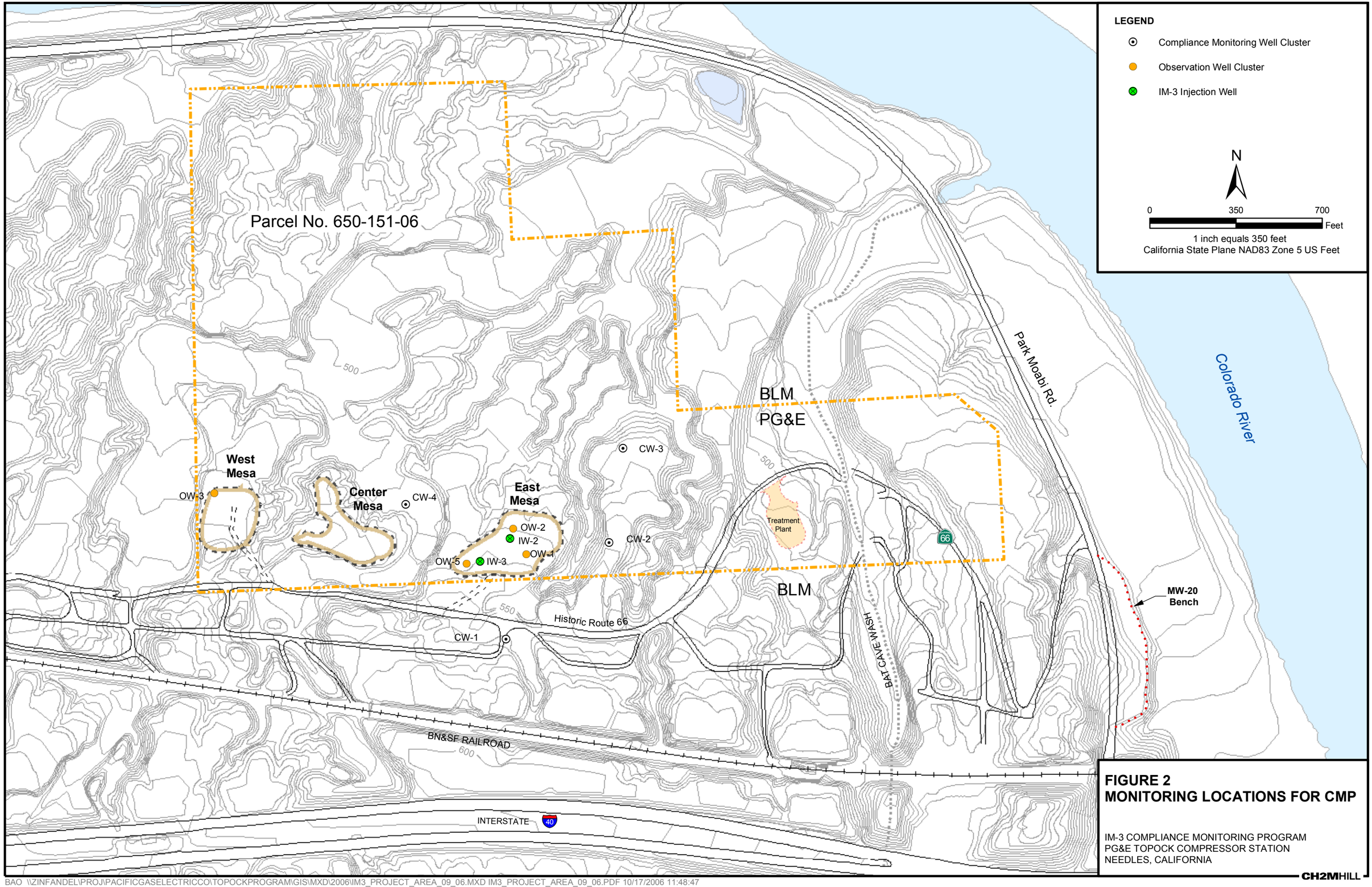
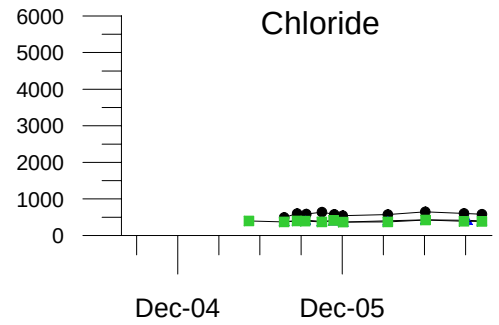
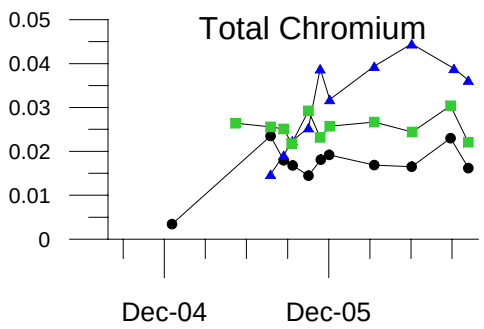


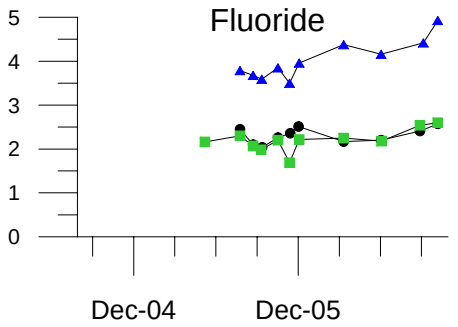
FIGURE 2
MONITORING LOCATIONS FOR CMP

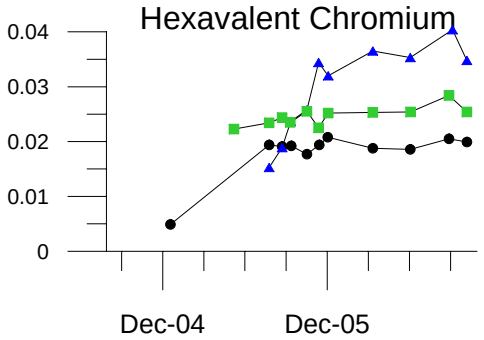
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

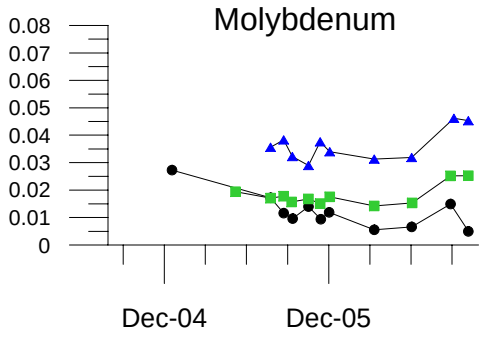
CH2MHILL

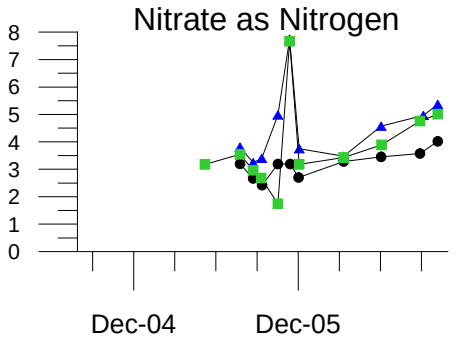


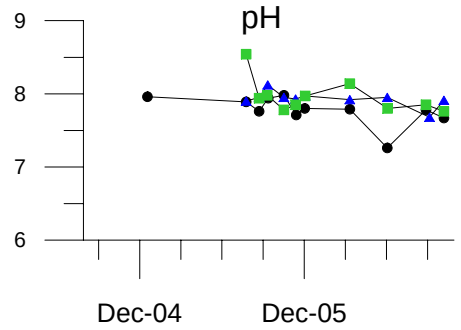


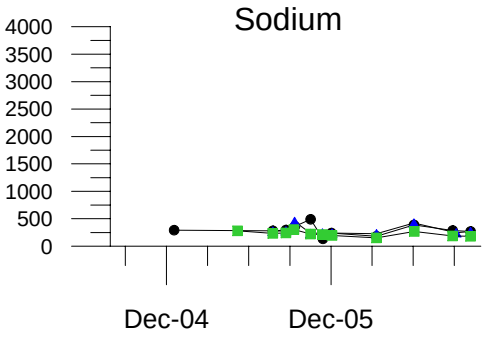


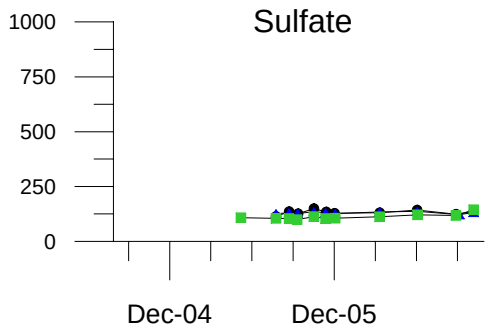


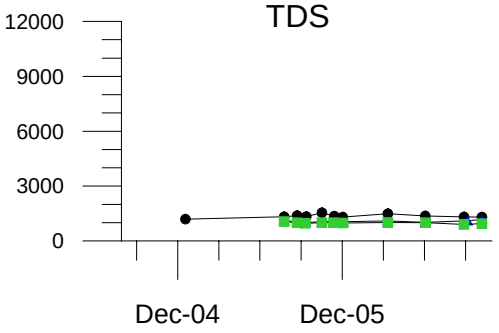


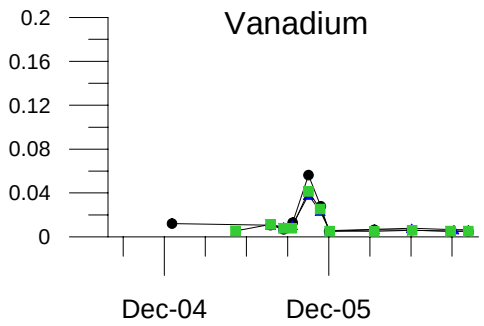


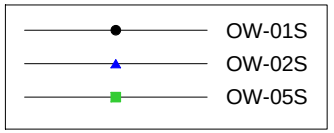








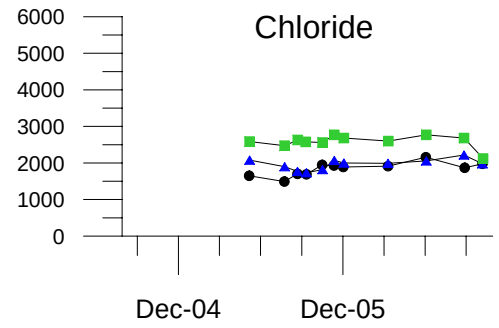


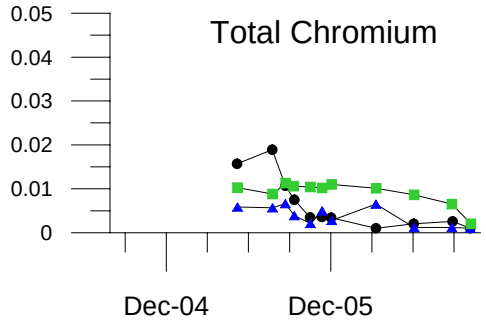


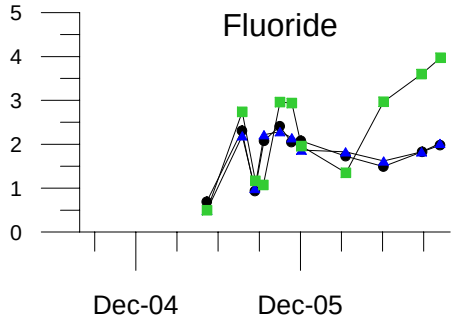
All concentration units in mg/L.
pH in pH units.

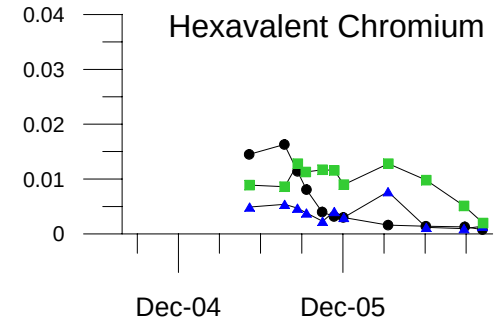
FIGURE 3A
OW-01S, OW-02S, OW-05S
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

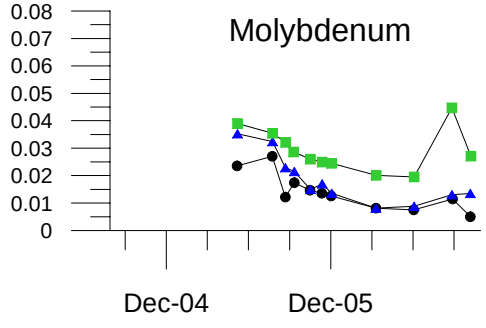
CH2MHILL

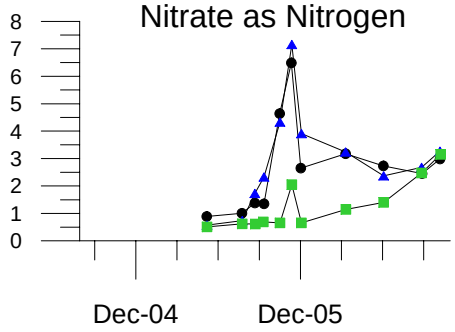


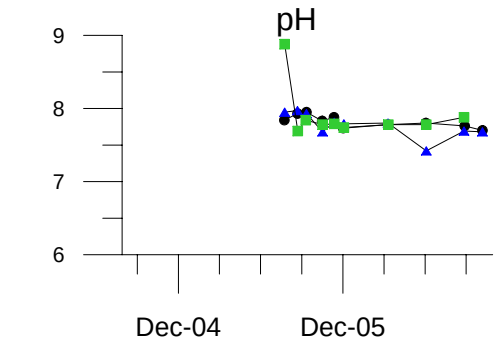


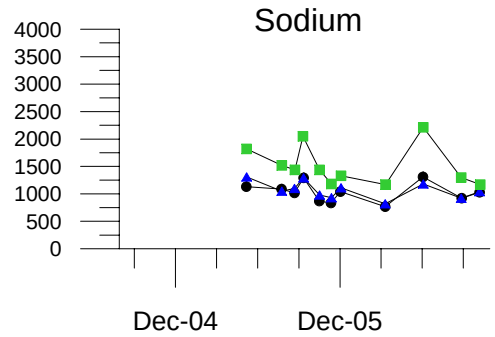


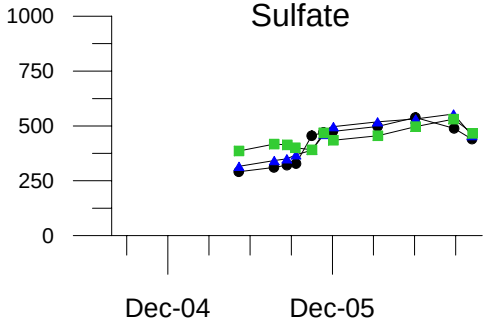


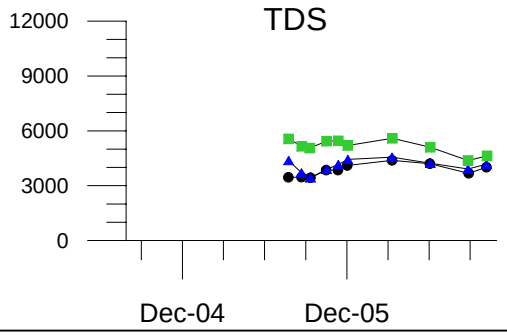


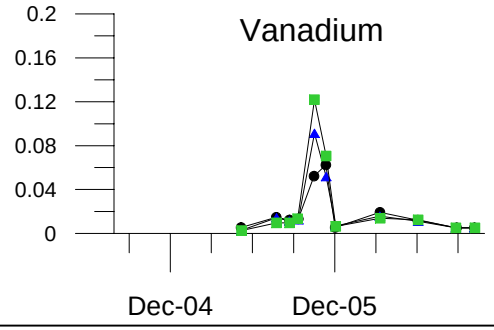


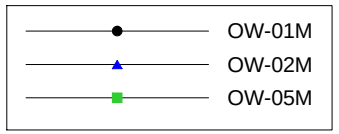










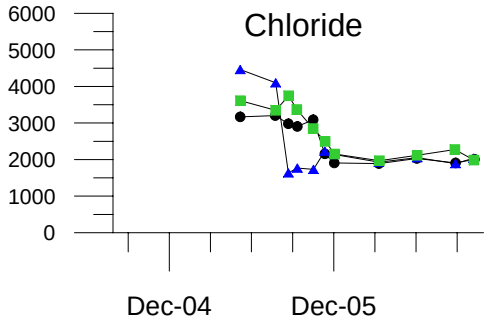


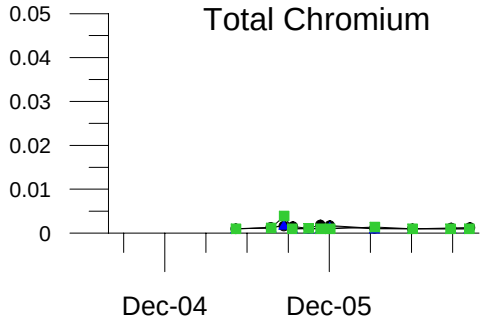
All concentration units in mg/L.
pH in pH units.

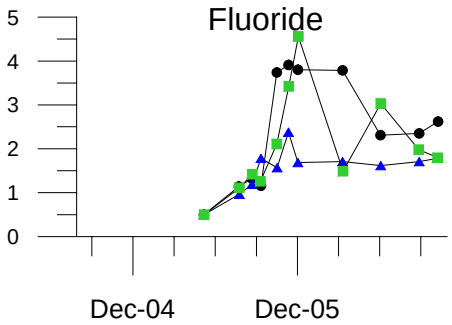
FIGURE 3B
OW-01M, OW-02M, OW-05M
WATER QUALITY HYDROGRAPHS

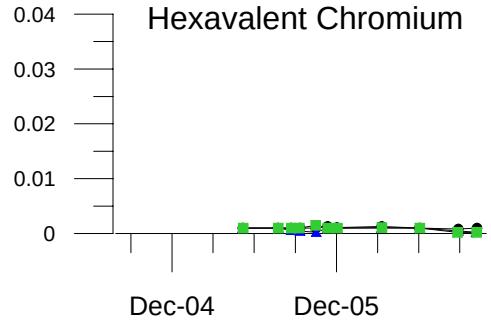
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

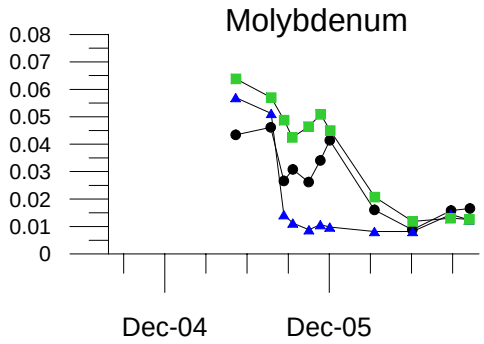
CH2MHILL

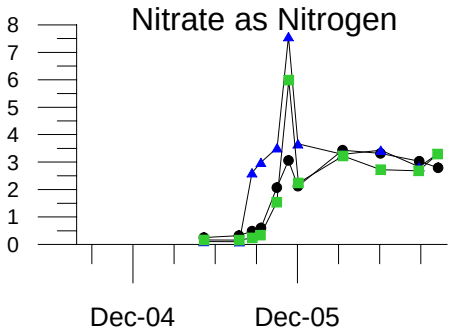


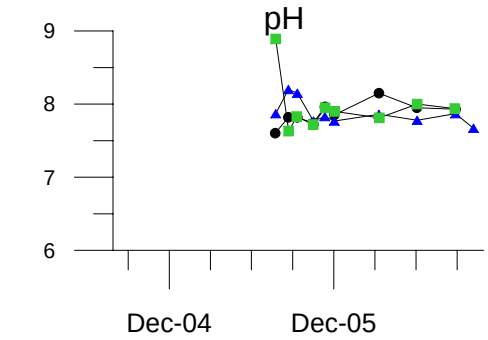


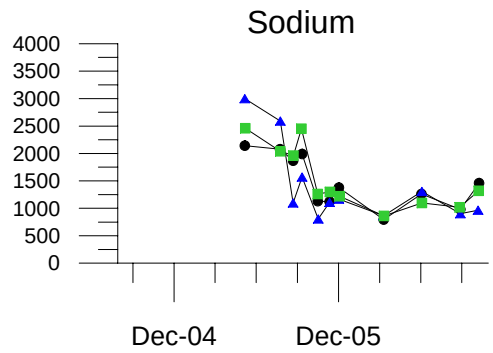


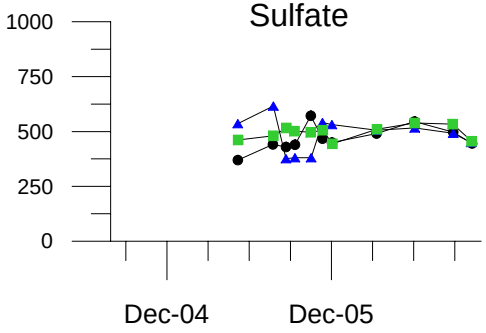


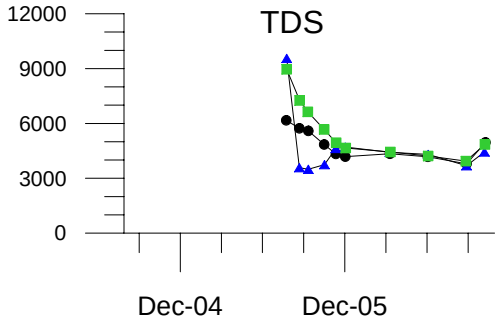


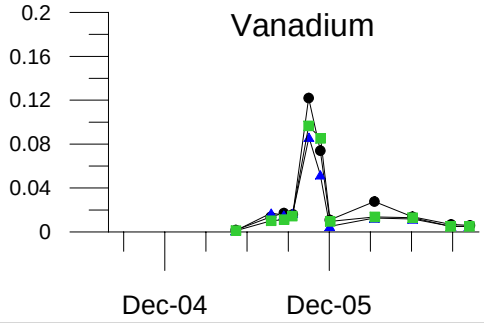


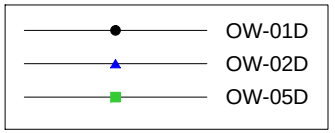








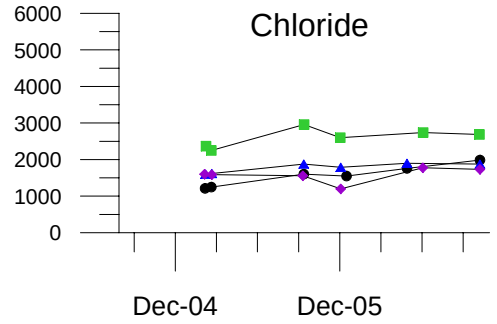


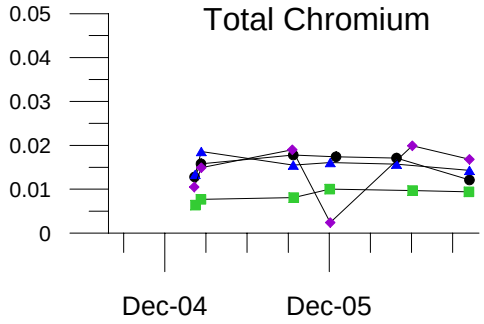


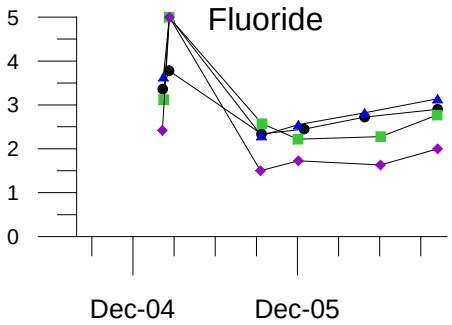
All concentration units in mg/L.
pH in pH units.

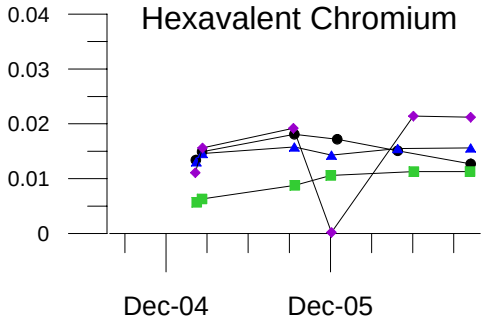
FIGURE 3C
OW-01D, OW-02D, OW-05D
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

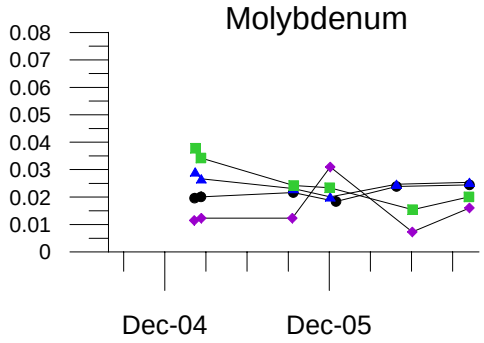
CH2MHILL

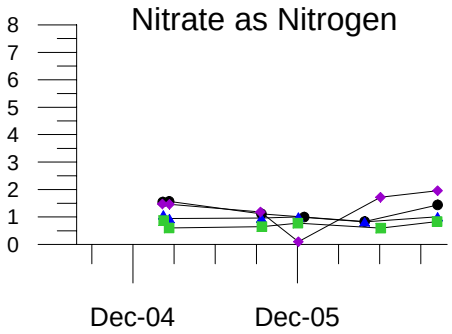


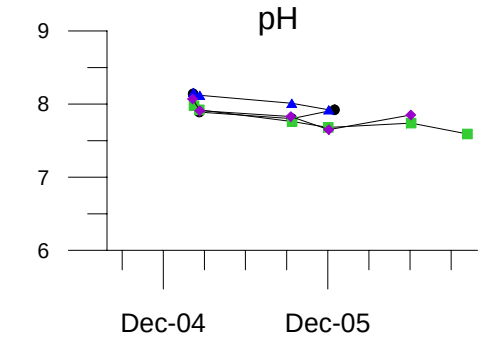


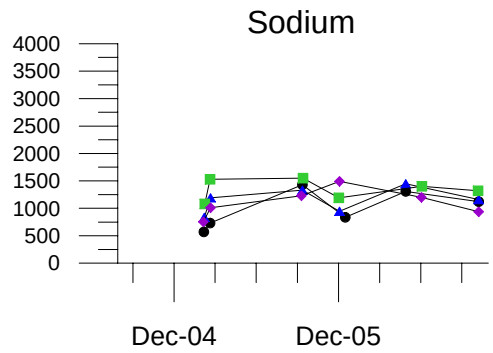


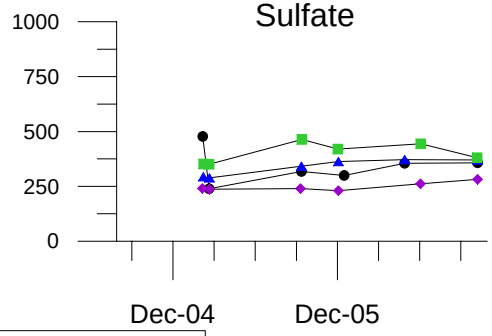


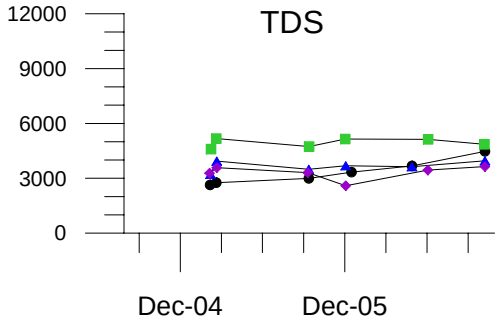


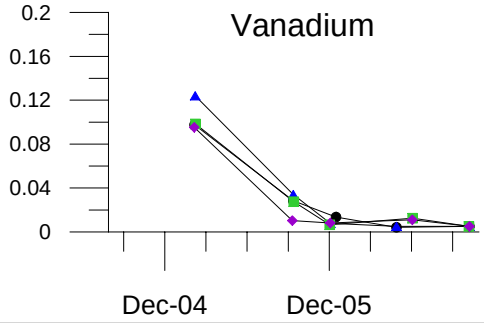


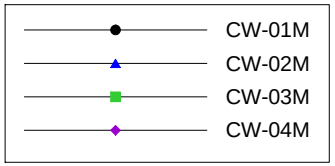












All concentration units in mg/L.
pH in pH units.

FIGURE 3D
CW-01M, CW-02M, CW-03M, CW-04M
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

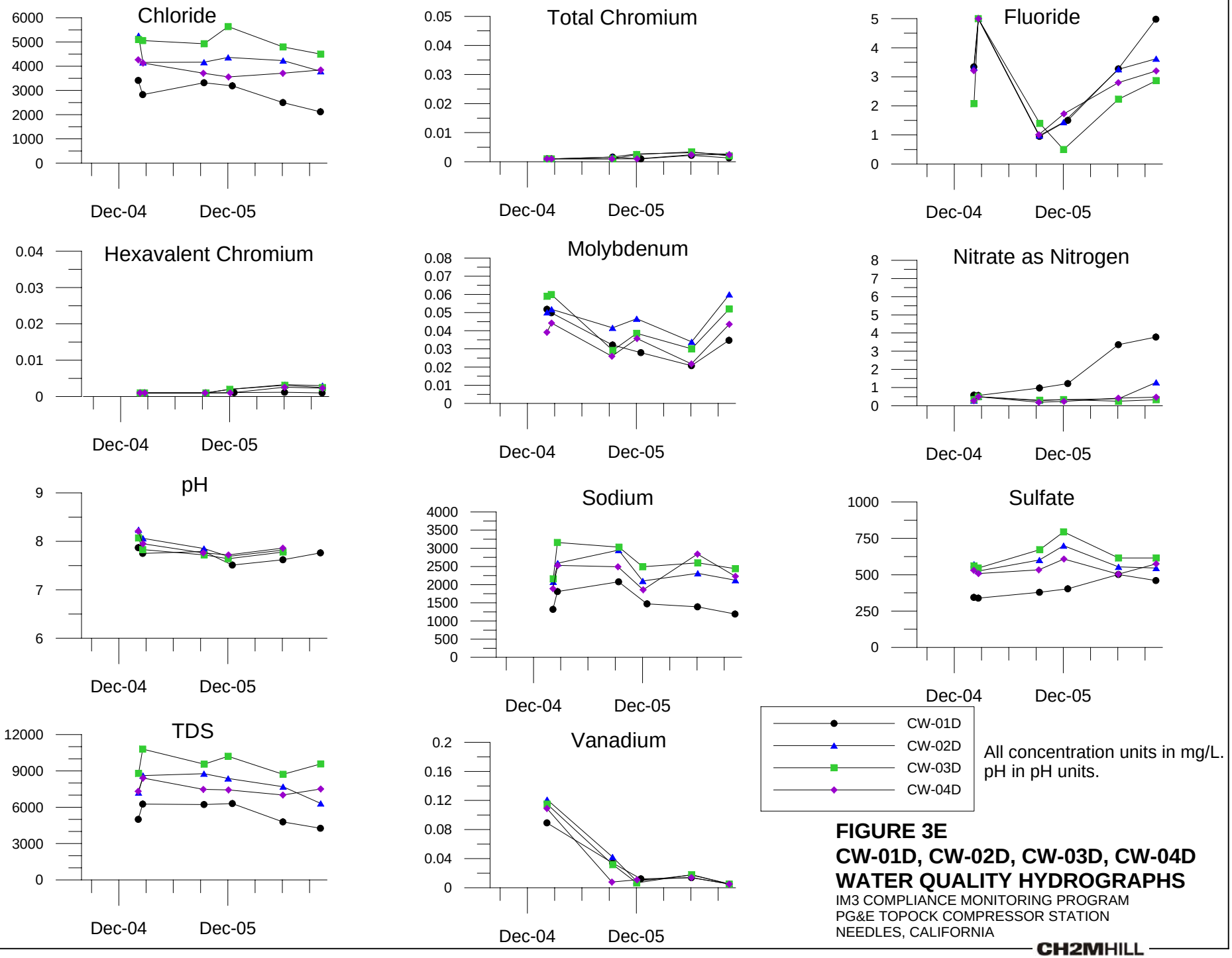


FIGURE 3E
CW-01D, CW-02D, CW-03D, CW-04D
WATER QUALITY HYDROGRAPHS
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

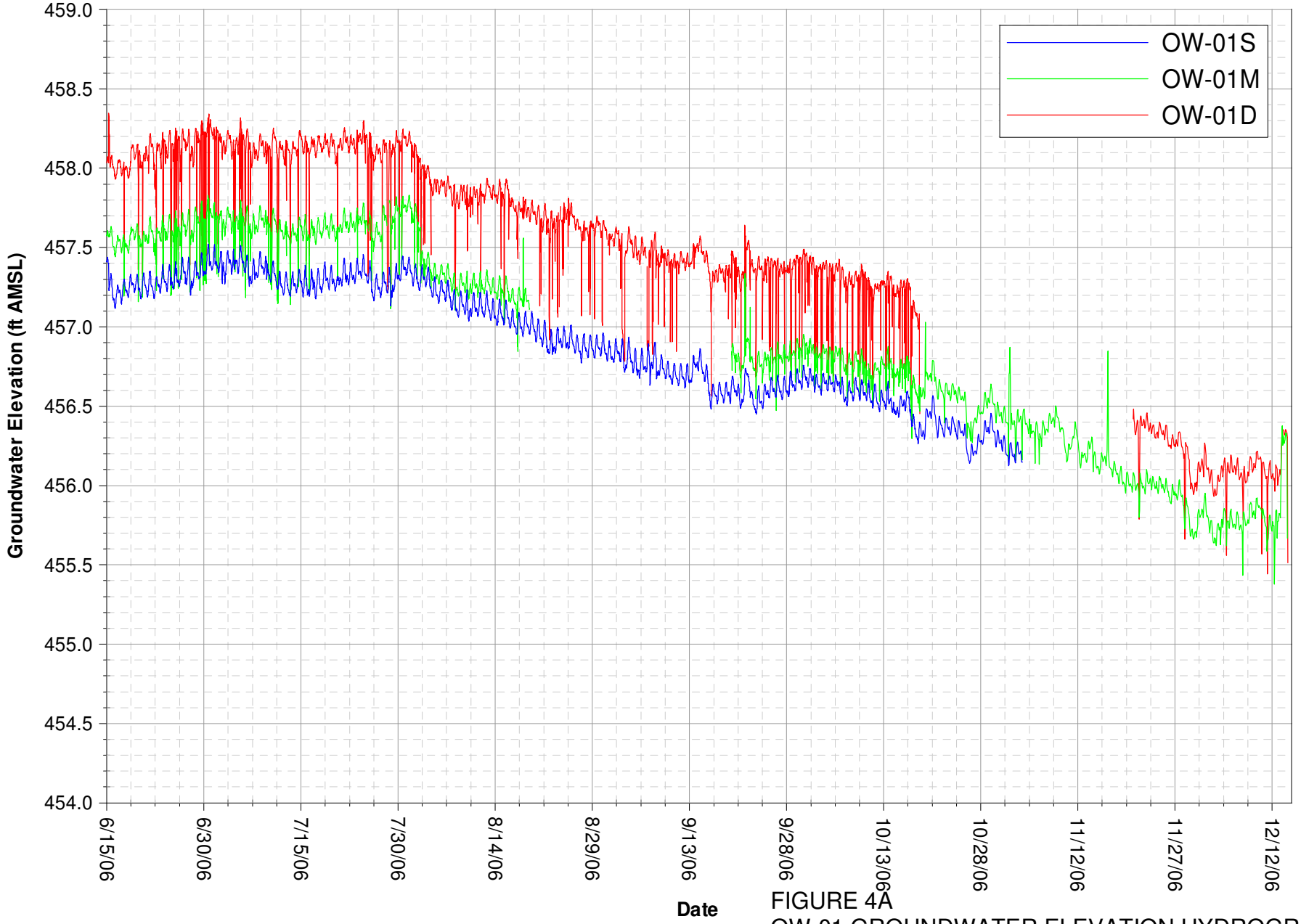


FIGURE 4A
OW-01 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review.
OW-1M data unavailable from 8/16/06 - 9/15/06 due to power failure.
OW-1S data unavailable after 11/08/06 due to transducer failure.
OW-1D data unavailable from 10/18/06 to 11/22/06 due to power failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

CH2MHILL

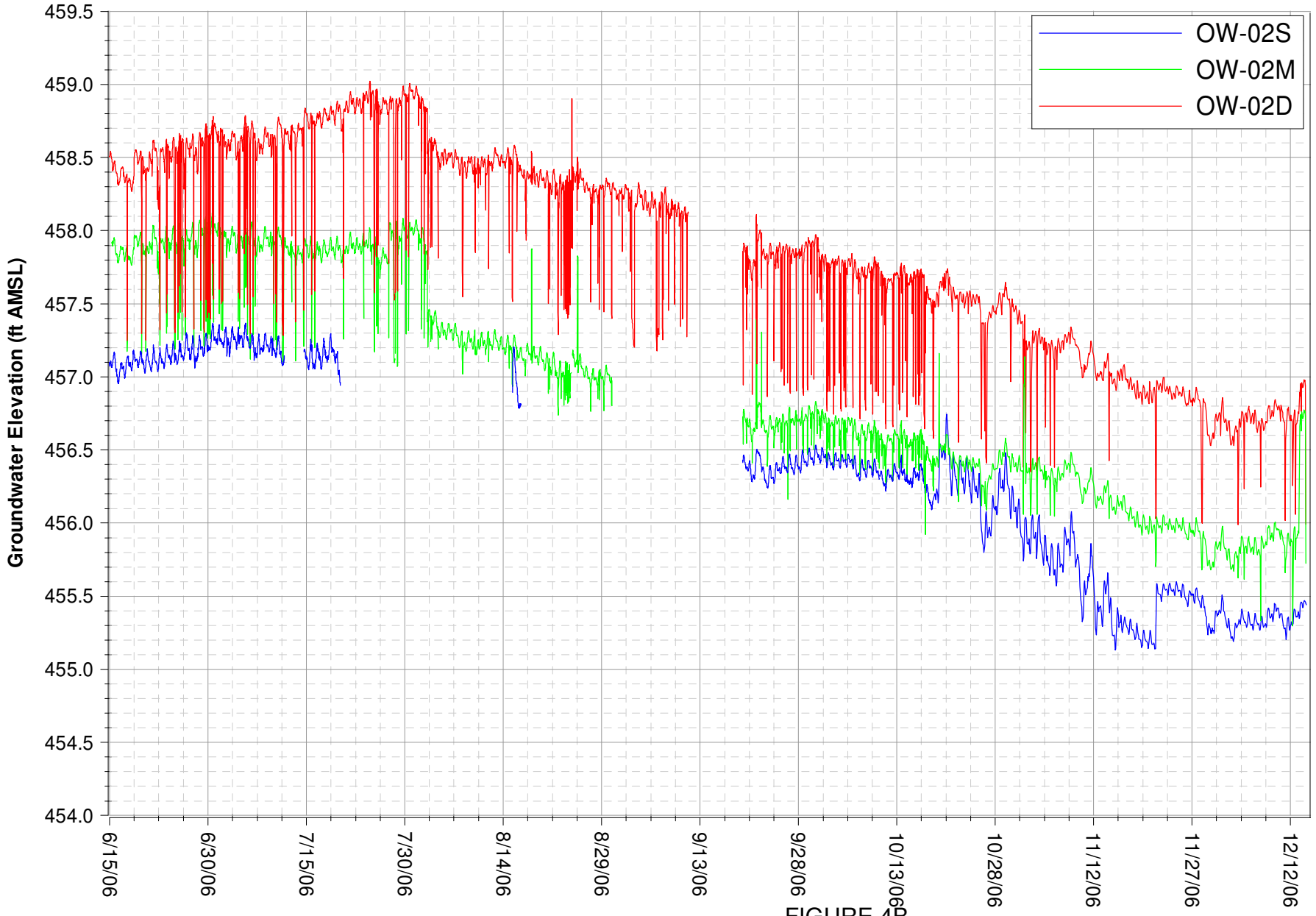
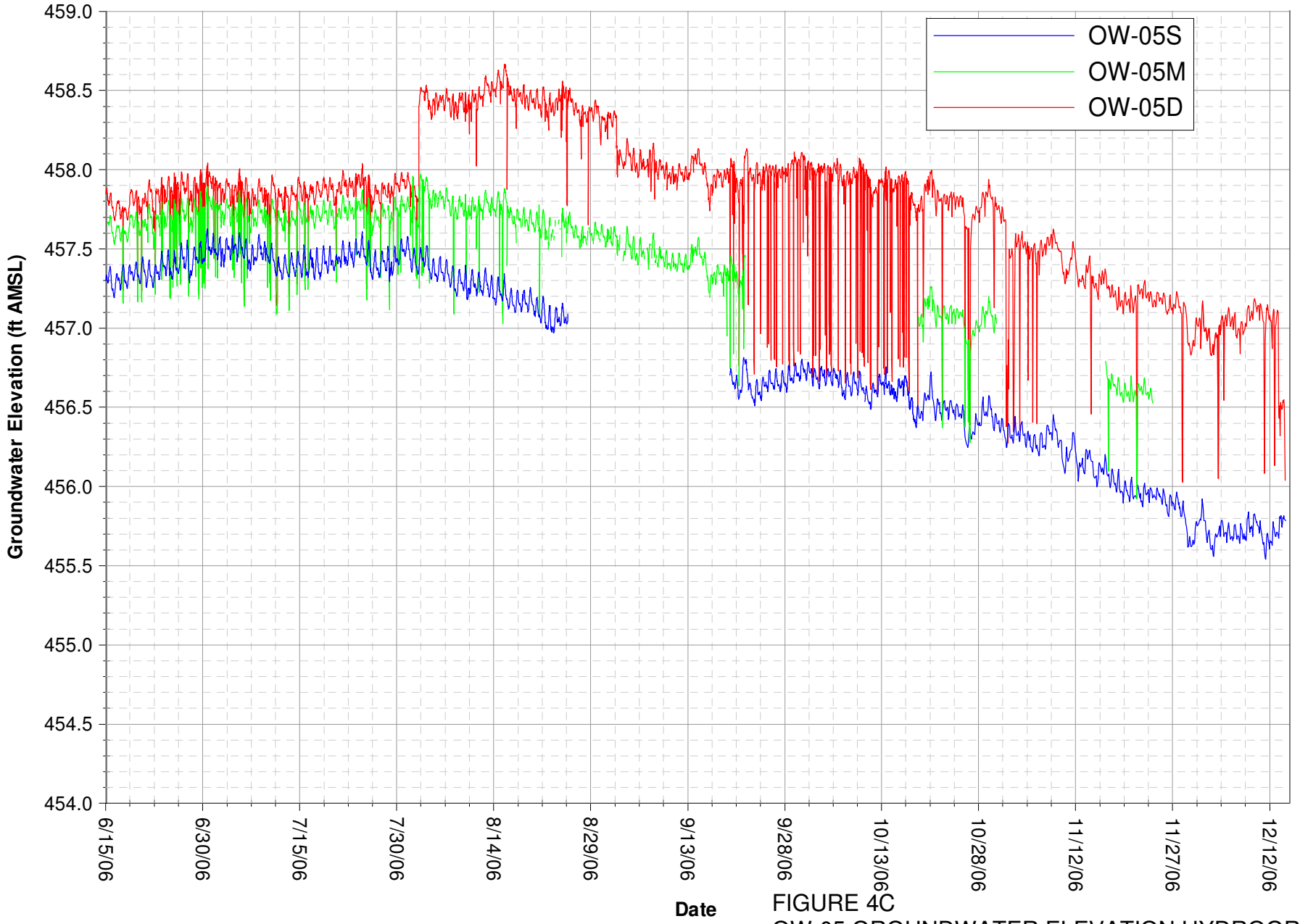


FIGURE 4B
OW-02 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review.
OW-02D data unavailable from 9/10/2006 through 9/15/06 due to power failure.
OW-02M data unavailable from 8/30/06 through 9/15/06 due to power failure.
OW-02S data unavailable from 7/11/06 - 7/14/06 and 7/20/06 - 9/15/06 due to transducer and power failures.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

CH2MHILL



Note: Data subject to review.
OW-5S data unavailable 8/24/06 - 9/15/06 due to power failure.
OW-5M data unavailable from 9/20/06 to 10/18/06 due to transducer failure, 10/30/06 to 11/16/06 due to power failure, and after 11/23/06 due to transducer failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

FIGURE 4C
OW-05 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

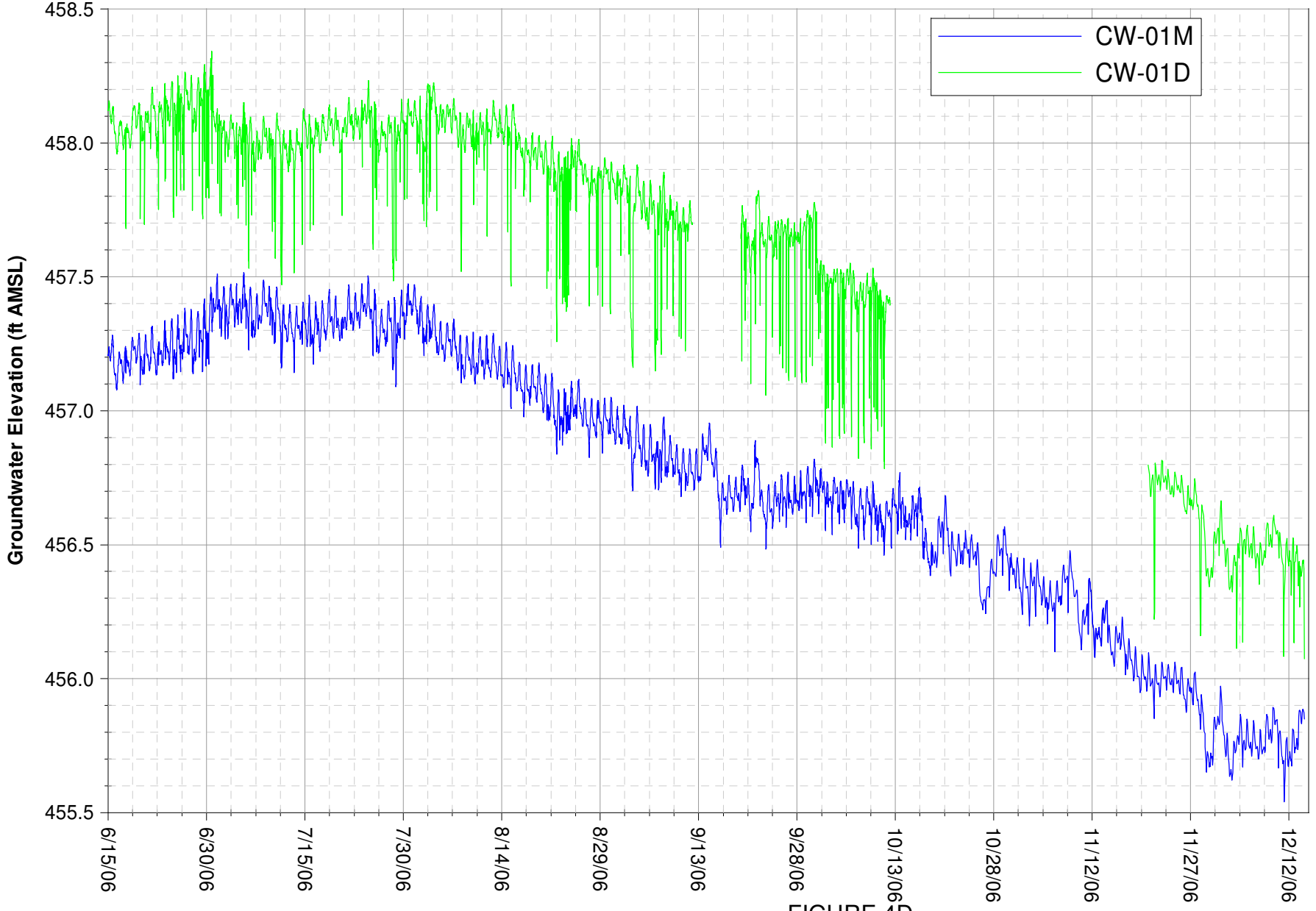


FIGURE 4D
CW-01 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review.
CW-01D Data Unavailable from 9/12/06 - 9/15/06 due to power failure.
CW-01D Data Unavailable from 10/12/06 - 11/15/06 due to transducer failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

CH2MHILL

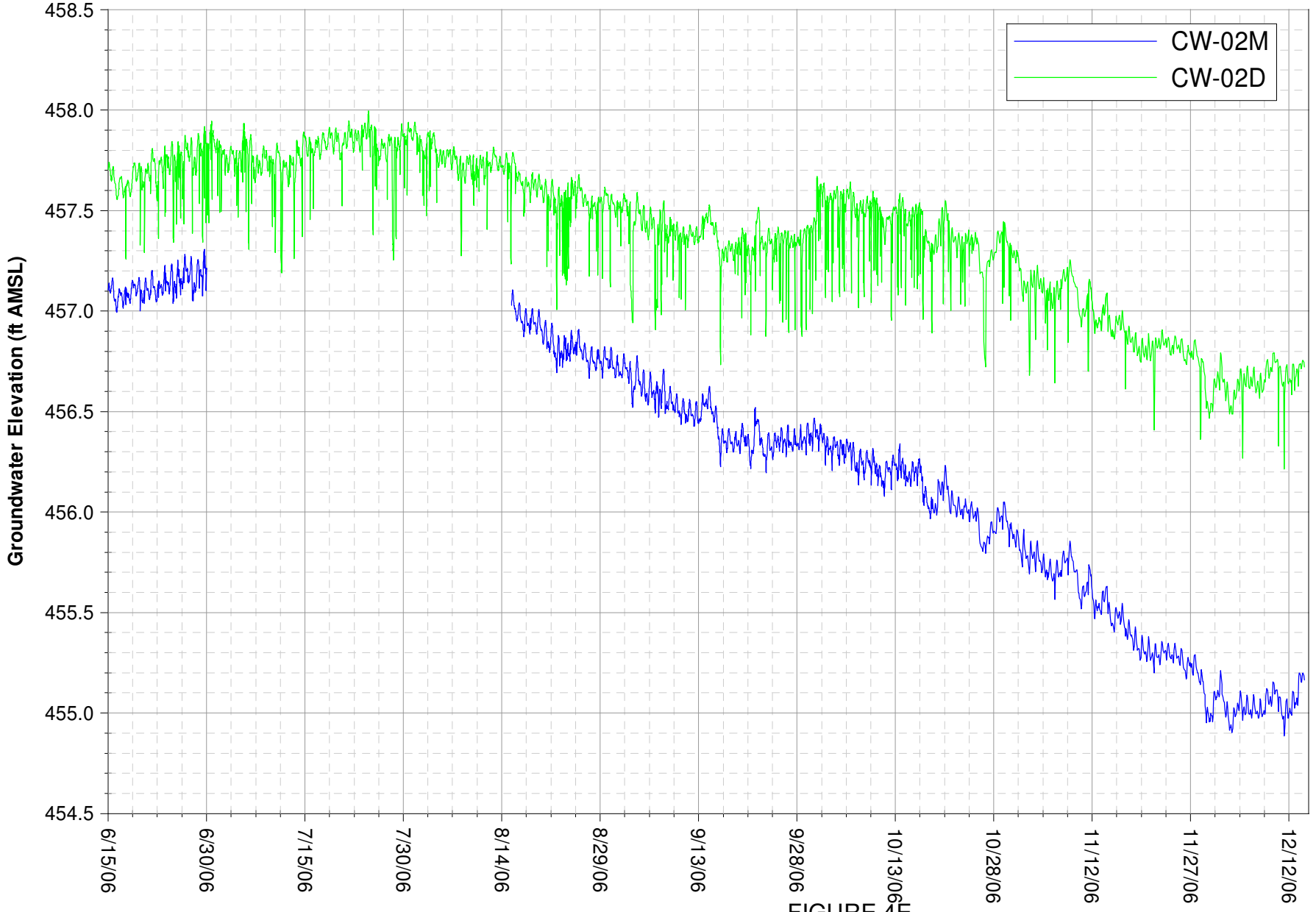


FIGURE 4E
CW-02 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review.
CW-02M Data unavailable from 6/30/06 - 8/15/06 due to transducer failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

CH2MHILL

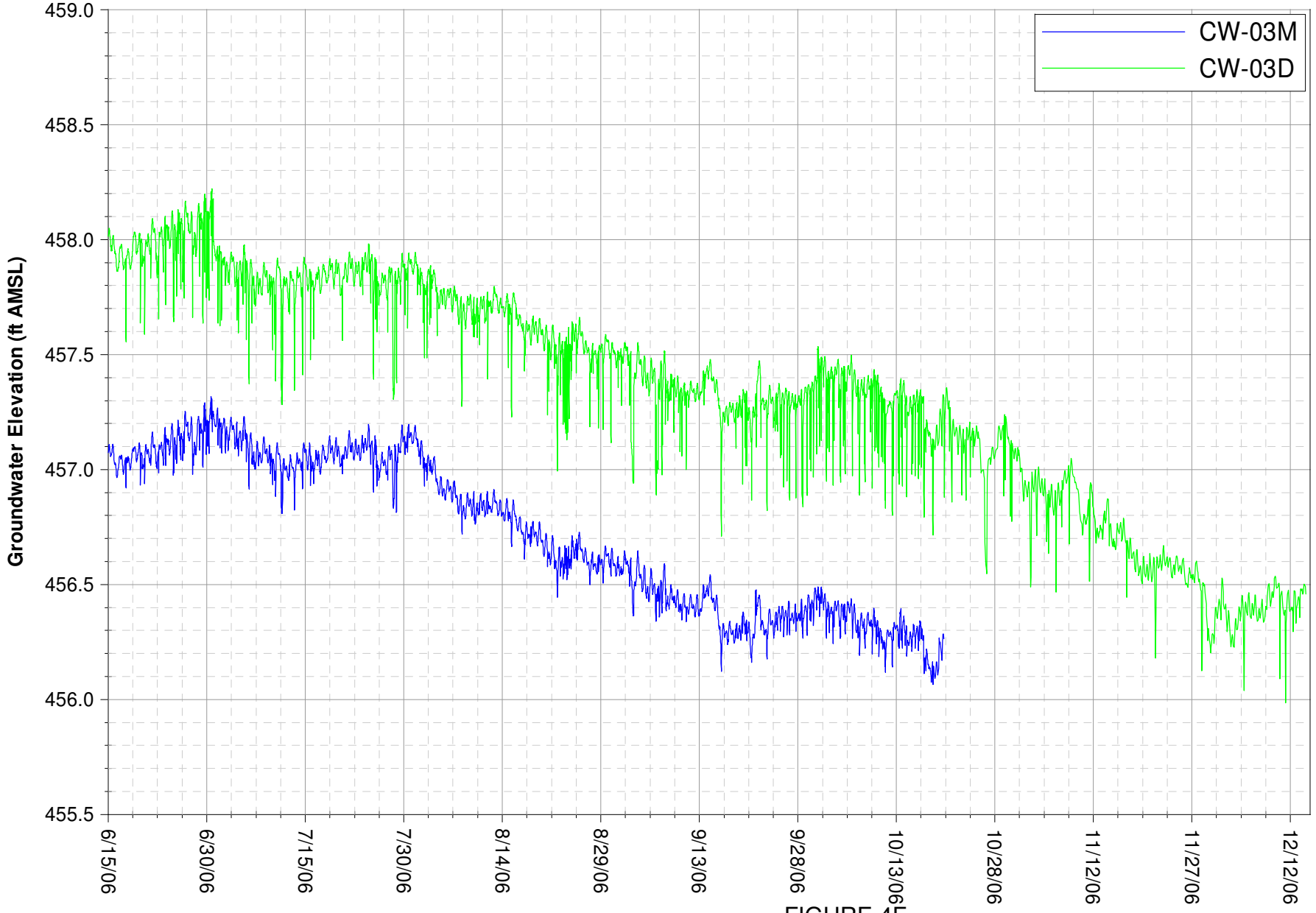


FIGURE 4F
CW-03 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review..
CW-03M data unavailable after 10/20/2006 due to transducer failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06

CH2MHILL

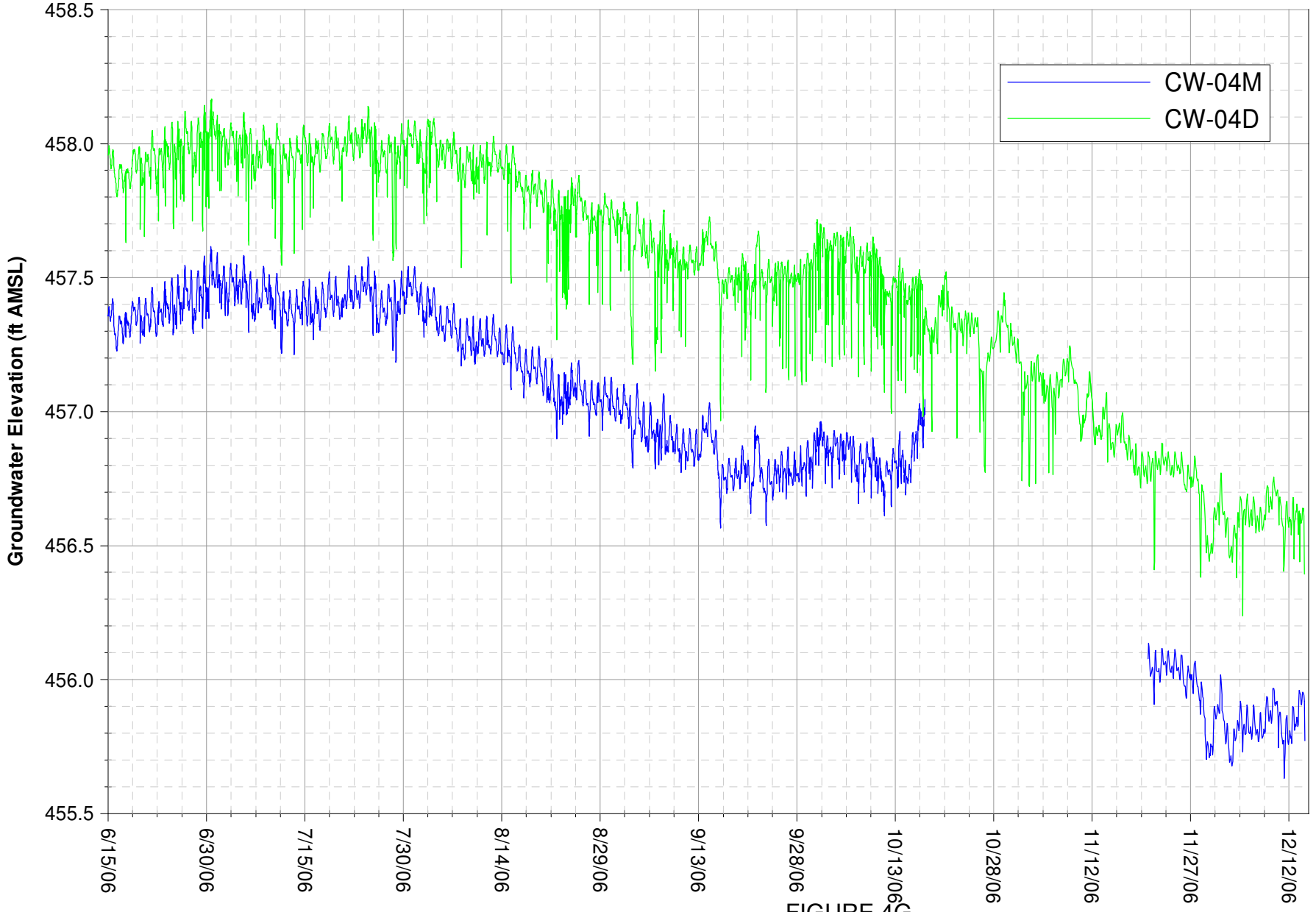
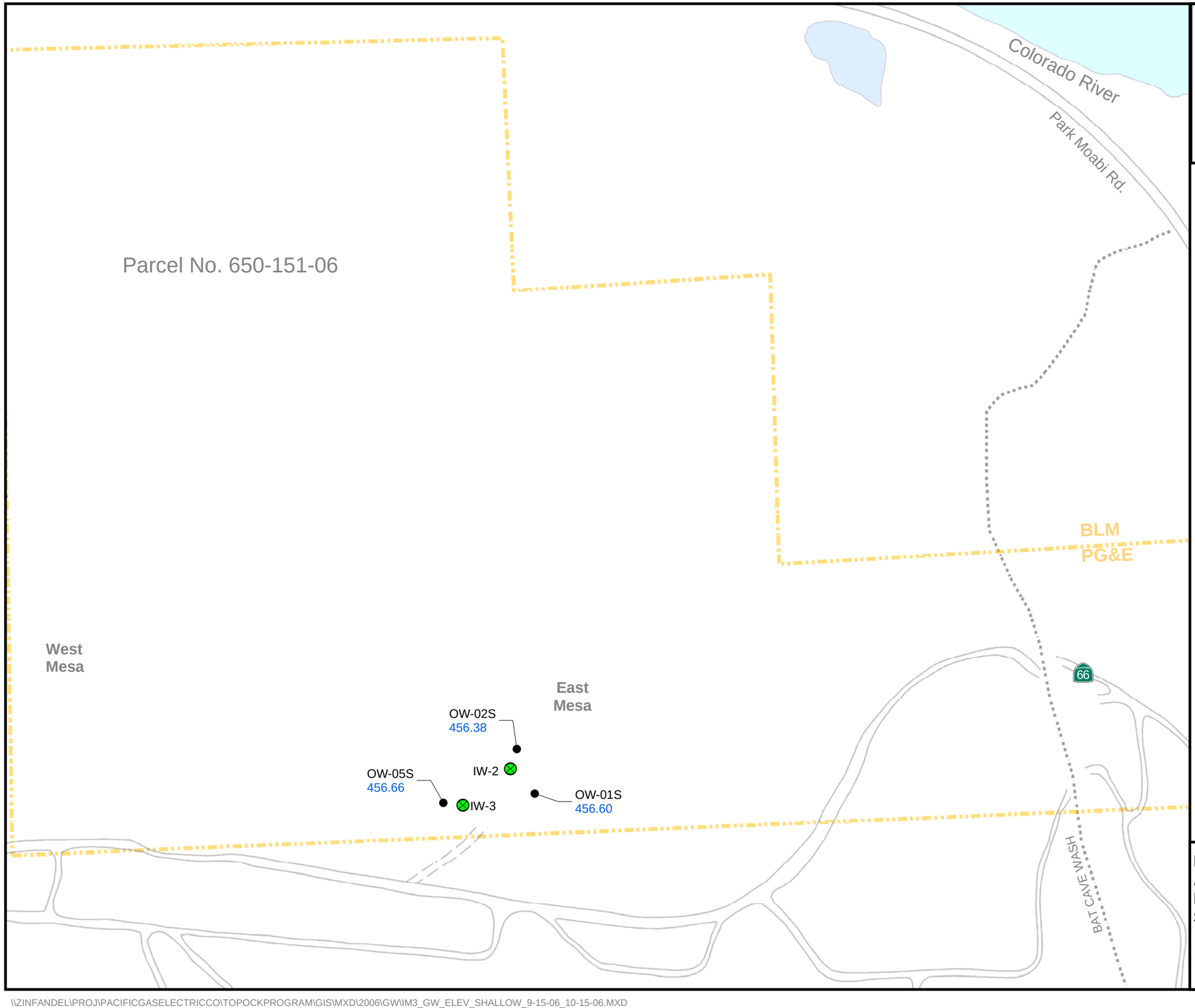


FIGURE 4G
CW-04 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note: Data subject to review.
CW-04M Data unavailable from 10/17/06 - 11/18/06 transducer failure.
Injection at IW-2 ceased on 8/2/06. Injection at IW-3 began on 8/2/06.

CH2MHILL



N

0 250 500 Feet

1 inch equals 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 454.75 — Salinity and temperature adjusted groundwater head elevation in feet above mean sea level (MSL)

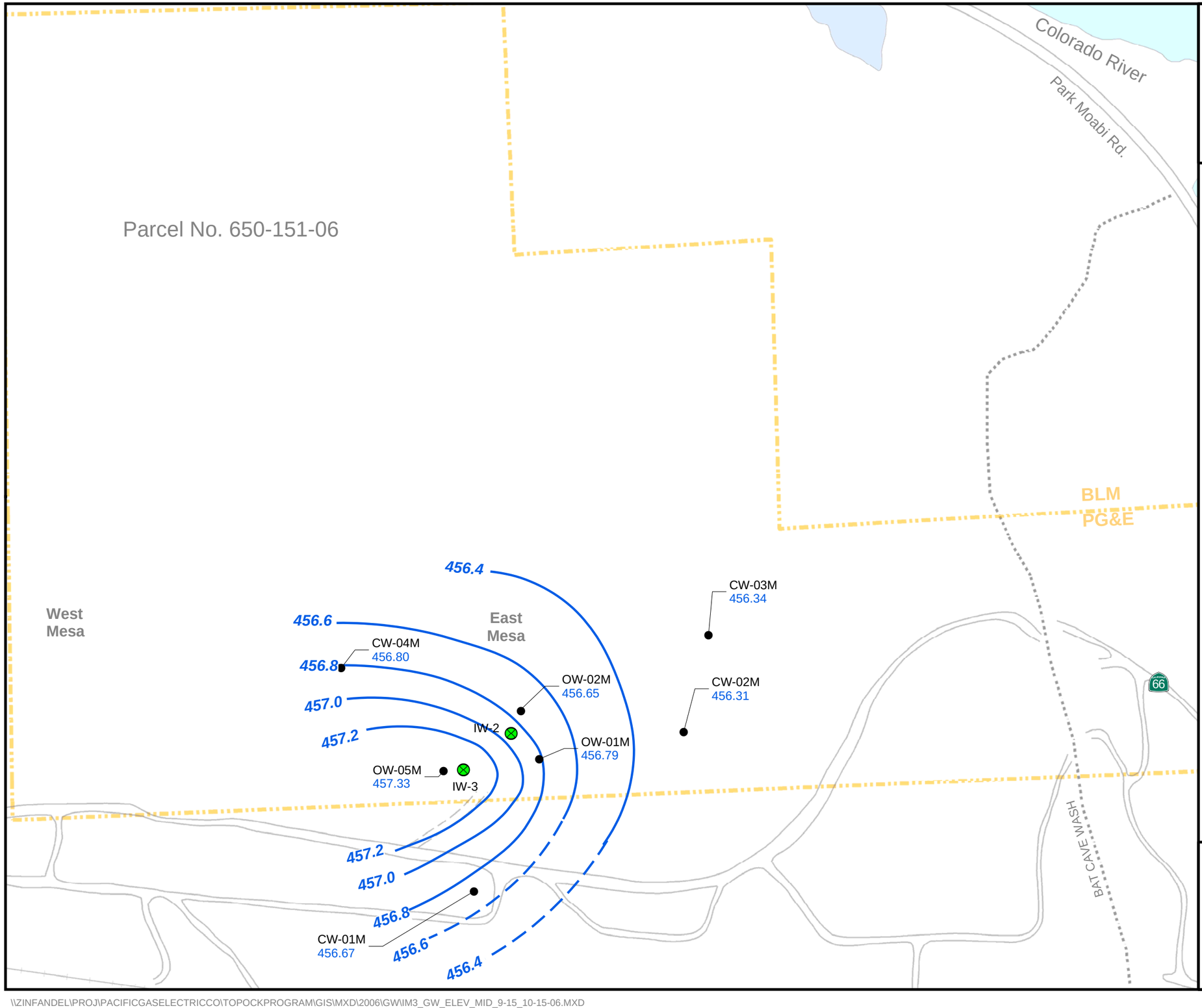
Note: Average monthly groundwater elevations are calculated with pressure transducer data measured at 30 minute intervals.

FIGURE 5A
AVERAGE GROUNDWATER ELEVATIONS FOR SHALLOW WELLS SEPTEMBER 15 TO OCTOBER 15, 2006

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

CH2MHILL

\\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2006\GW\IM3_GW_ELEV_SHALLOW_9-15-06_10-15-06.MXD



N

0 250 500 Feet

1 inch equals 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** 454.75 — 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

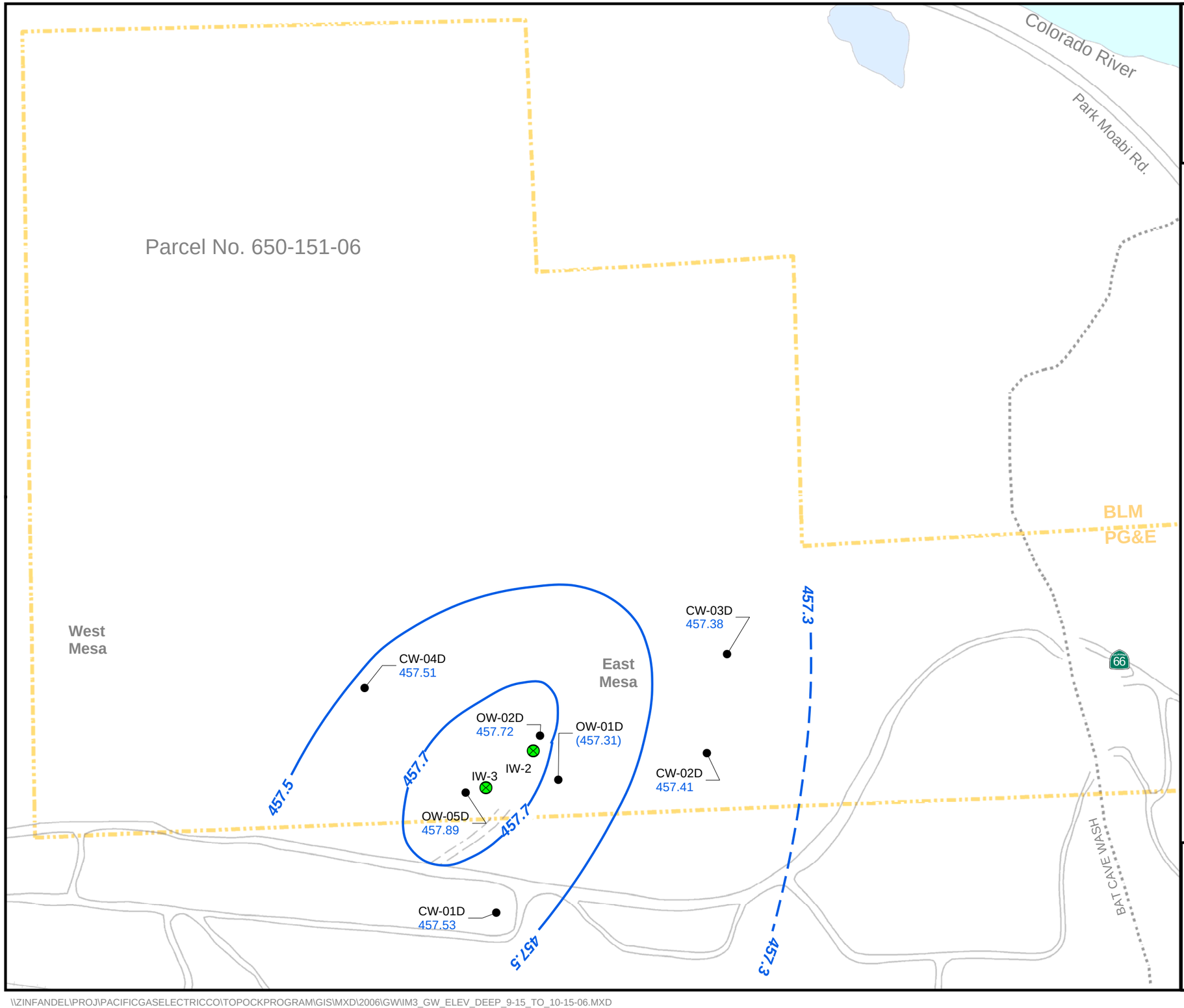
Note: Average monthly groundwater elevations are calculated with pressure transducer data measured at 30 minute intervals. OW-5M is the average of data from 9/15/2006 through 9/23/2006.

FIGURE 5B
AVERAGE GROUNDWATER ELEVATION CONTOURS FOR MID-DEPTH WELLS SEPTEMBER 15 TO OCTOBER 15, 2006

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

CH2MHILL

\\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2006\GW\IM3_GW_ELEV_MID_9-15_10-15-06.MXD



N

0 250 500 Feet

1 inch equals 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** 454.75 — 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. (OW-1D) excluded from contouring.

FIGURE 5C
AVERAGE GROUNDWATER ELEVATION CONTOURS FOR DEEP WELLS SEPTEMBER 15 TO OCTOBER 15, 2006

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

CH2MHILL

\\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\TOPOCKPROGRAM\GIS\MXD\2006\GW\IM3_GW_ELEV_DEEP_9-15_TO_10-15-06.MXD

Appendix A
Laboratory Reports, Fourth Quarter 2006

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

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

December 6, 2006

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 2006-CMP-010 PROJECT, GROUNDWATER MONITORING

TLI NO.: 959639

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 project groundwater monitoring. A summary table for this laboratory number 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 have been included under Section 5.

The samples were received and delivered with the chain of custody on October 10, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter they will be kept in warm storage for an additional 2 months before disposal.

A result for Hexavalent Chromium by SW 7199 is reported for sample 959639-6 in the matrix spike calculations although it is below the reporting limit due to the small amount of Hexavalent Chromium present in the sample.

Per Shawn Duffy's request the Specific Conductivity for sample 959639-2 was re-analyzed and reported.

No other violations or nonconformance 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.

Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

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

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.: 332959.CM.FW.01

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006

ANALYST LIST

SW 7199	Hexavalent Chromium	Roger Chen
SW 6010B	Dissolved Metals by ICP	Riddhi Patel
SW 6020	Dissolved Metals by ICP/MS	Riddhi Patel
SW 7470A	Mercury	Aksiniya Dimitrova
EPA 120.1	Specific Conductivity	Kim Luck
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

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: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959639
Date: December 6, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 12, 2006
Analytical Batch: 10EC06L
Revision 1

Investigation: **Specific Conductivity by EPA 120.1**

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959639-1	OW-02D-010	µmhos/cm	EPA 120.1	1.00	2.00	6020
959639-3	MW-91-010	µmhos/cm	EPA 120.1	1.00	2.00	6250
959639-4	OW-01S-010	µmhos/cm	EPA 120.1	1.00	2.00	2090
959639-5	OW-01M-010	µmhos/cm	EPA 120.1	1.00	2.00	6180
959639-6	CW-01D-010	µmhos/cm	EPA 120.1	1.00	2.00	6700
959639-7	CW-03M-010	µmhos/cm	EPA 120.1	1.00	2.00	7820

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959639-7	7820	7800	0.26%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	710	706	101%	90% - 110%	Yes
CVS#1	909	1000	90.9%	90% - 110%	Yes
CVS#2	921	1000	92.1%	90% - 110%	Yes
LCS	720	706	102%	90% - 110%	Yes
LCSD	719	706	102%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959639
Date: December 6, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: December 6, 2006
Analytical Batch: 12EC06E
Revision 1

Investigation: **Specific Conductivity by EPA 120.1**

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959639-2	OW-02M-010	µmhos/cm	EPA 120.1	1.00	2.00	6570 J

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959639-2	6570	6590	0.30%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	689	706	97.6%	90% - 110%	Yes
CVS#1	955	1000	95.5%	90% - 110%	Yes
LCS	690	706	97.7%	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.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10CrH06O

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 11, 2006
Analytical Batch: 10CrH06O

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959639-1	OW-02D-010	10:18	00:01	mg/L	1.05	0.00020	0.00024
959639-2	OW-02M-010	10:40	00:31	mg/L	1.05	0.00020	0.0014
959639-3	MW-91-010	13:00	01:33	mg/L	1.05	0.00020	0.0014
959639-4	OW-01S-010	12:20	01:43	mg/L	1.05	0.00020	0.0199

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: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10CrH06N

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 10 - 11, 2006
Analytical Batch: 10CrH06N

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959639-5	OW-01M-010	13:50	10/10/06; 23:52	mg/L	1.05	0.00020	0.00081
959639-6	CW-01D-010	14:40	10/11/06; 02:27	mg/L	5.00	0.0010	ND
959639-7	CW-03M-010	15:30	10/11/06; 01:17	mg/L	5.00	0.0010	0.0113
959639-8	EB-CMP-010-01	15:40	10/11/06; 00:20	mg/L	1.05	0.00020	ND

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: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 101606A

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 16, 2006
Analytical Batch: 101606A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Dissolved Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959639-1	OW-02D-010	10:18	15:51	mg/L	1.04	0.0010	ND
959639-2	OW-02M-010	10:40	15:55	mg/L	1.04	0.0010	ND
959639-3	MW-91-010	13:00	15:59	mg/L	1.04	0.0010	ND
959639-4	OW-01S-010	12:20	16:04	mg/L	1.04	0.0010	0.0162
959639-5	OW-01M-010	13:50	16:27	mg/L	1.04	0.0010	ND
959639-6	CW-01D-010	14:40	16:12	mg/L	1.04	0.0010	0.0013
959639-7	CW-03M-010	15:30	16:17	mg/L	1.04	0.0010	0.0094

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959638-4	0.00693	0.00715	3.13%	≤ 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	959638-4	0.00693	1.04	0.0100	0.0104	0.0151	0.0173	78.6%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0108	0.0100	108%	90% - 110%	Yes
MRCVS#1	0.0109	0.0100	109%	90% - 110%	Yes
MRCVS#2	0.0101	0.0100	101%	90% - 110%	Yes
ICS	0.0102	0.0100	102%	80% - 120%	Yes
LCS	0.0101	0.0100	101%	90% - 110%	Yes

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

Respectfully submitted,
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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.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 11, 2006
Analytical Batch: 10PH06I

Investigation: **pH by EPA 150.1**

Analytical Results pH

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	RL	Results
959639-1	OW-02D-010	10:18	10:28	pH Units	2.00	7.67
959639-2	OW-02M-010	10:40	10:32	pH Units	2.00	7.64
959639-3	MW-91-010	13:00	10:36	pH Units	2.00	7.68
959639-4	OW-01S-010	12:20	10:40	pH Units	2.00	7.67
959639-5	OW-01M-010	13:50	10:43	pH Units	2.00	7.70
959639-6	CW-01D-010	14:40	10:47	pH Units	2.00	7.76
959639-7	CW-03M-010	15:30	10:51	pH Units	2.00	7.59

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959639-6	7.76	7.77	0.01	± 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #2	7.01	7.00	0.01	± 0.100 Units	Yes

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

Respectfully submitted,
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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.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10TDS06G

Laboratory No.: 959639
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 14, 2006
Analytical Batch: 10TDS06G

Investigation: **Total Dissolved Solids by EPA 160.1**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Sample Time	Units	Method	RL	Results
959639-1	OW-02D-010	10:18	mg/L	EPA 160.1	139	4440
959639-2	OW-02M-010	10:40	mg/L	EPA 160.1	125	4180
959639-3	MW-91-010	13:00	mg/L	EPA 160.1	139	3740
959639-4	OW-01S-010	12:20	mg/L	EPA 160.1	50.0	1300
959639-5	OW-01M-010	13:50	mg/L	EPA 160.1	139	4010
959639-6	CW-01D-010	14:40	mg/L	EPA 160.1	250	4260
959639-7	CW-03M-010	15:30	mg/L	EPA 160.1	250	4860

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959639-5	4010	3880	1.65%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	486	500	97.2%	90% - 110%	Yes
LCS 2	494	500	98.8%	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

Samples: Eight (8) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Investigation: California Title 22, Section 26 Metals (Dissolved)

Laboratory No.: 959639
Reported October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Analyzed: October 13 - 27, 2006

Analytical Results

SAMPLE ID: OW-02D-010 **Time Collected:** 10:18 **LAB ID:** 959639-1

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	15:38
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:34
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:38
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:34
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:34
Chromium	SW 6010B	ND	1.04	mg/L	0.0010	101606A	10/16/06	15:51
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:34
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:34
Magnesium	SW 6010B	18.2	2.08	mg/L	1.00	102006A	10/20/06	13:36
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:38
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06D	10/13/06	13:10
Molybdenum	SW 6020	0.0124	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:38
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	15:34
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:34
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:38
Boron	SW 6010B	1.20	1.04	mg/L	0.200	101306A	10/13/06	15:38
Calcium	SW 6010B	191	20.8	mg/L	4.16	102006A	10/20/06	15:30
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:38
Potassium	SW 6010B	20.3	2.08	mg/L	1.00	102006A	10/20/06	13:36
Sodium	SW 6010B	967	20.8	mg/L	4.16	102006A	10/20/06	15:30

SAMPLE ID: OW-02M-010		Time Collected: 10:40				LAB ID: 959639-2		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	14:52
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:40
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	14:52
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:40
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:40
Chromium	SW 6010B	ND	1.04	mg/L	0.0010	101606A	10/16/06	15:55
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:40
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:40
Magnesium	SW 6010B	15.1	2.08	mg/L	1.00	102006A	10/20/06	13:39
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	14:52
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06D	10/13/06	13:13
Molybdenum	SW 6020	0.0135	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	14:52
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	15:40
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:40
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	14:52
Boron	SW 6010B	1.27	1.04	mg/L	0.200	101306A	10/13/06	14:52
Calcium	SW 6010B	192	20.8	mg/L	4.16	102006A	10/20/06	15:33
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	14:52
Potassium	SW 6010B	19.6	2.08	mg/L	1.00	102006A	10/20/06	13:39
Sodium	SW 6010B	1040	20.8	mg/L	4.16	102006A	10/20/06	15:33

SAMPLE ID: MW-91-010		Time Collected:	13:00			LAB ID:	959639-3	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	14:57
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:46
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	14:57
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:46
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:46
Chromium	SW 6010B	ND	1.04	mg/L	0.0010	101606A	10/16/06	15:59
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:46
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:46
Magnesium	SW 6010B	15.3	2.08	mg/L	1.00	102006A	10/20/06	13:42
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	14:57
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06D	10/13/06	13:15
Molybdenum	SW 6020	0.0115	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	14:57
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	15:46
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:46
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	14:52
Boron	SW 6010B	1.24	1.04	mg/L	0.200	101306A	10/13/06	14:57
Calcium	SW 6010B	195	20.8	mg/L	4.16	102006A	10/20/06	15:36
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	14:57
Potassium	SW 6010B	19.5	2.08	mg/L	1.00	102006A	10/20/06	13:42
Sodium	SW 6010B	1030	20.8	mg/L	4.16	102006A	10/20/06	15:36

SAMPLE ID: OW-01S-010		Time Collected:	12:20			LAB ID:	959639-4	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	15:01
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:52
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:01
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:52
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:52
Chromium	SW 6010B	0.0162	1.04	mg/L	0.0010	101606A	10/16/06	16:04
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:52
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:52
Magnesium	SW 6010B	14.8	2.08	mg/L	1.00	102006A	10/20/06	13:45
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:01
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06D	10/13/06	13:17
Molybdenum	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:01
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	15:52
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:52
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:01
Boron	SW 6010B	0.312	1.04	mg/L	0.200	101306A	10/13/06	15:01
Calcium	SW 6010B	103	20.8	mg/L	4.16	102006A	10/20/06	15:39
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:01
Potassium	SW 6010B	9.70	2.08	mg/L	1.00	102006A	10/20/06	13:45
Sodium	SW 6010B	269	20.8	mg/L	4.16	102006A	06/28/06	15:39

SAMPLE ID: OW-01M-010		Time Collected: 13:50				LAB ID: 959639-5		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	15:42
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	16:10
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:42
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	16:10
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	16:10
Chromium	SW 6010B	ND	1.04	mg/L	0.0010	101606A	10/16/06	16:27
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	16:10
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	16:10
Magnesium	SW 6010B	12.2	2.08	mg/L	1.00	102006A	10/20/06	13:47
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:42
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06D	10/13/06	13:20
Molybdenum	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:42
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	16:10
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	16:10
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:42
Boron	SW 6010B	1.47	1.04	mg/L	0.200	101306A	10/13/06	15:42
Calcium	SW 6010B	181	20.8	mg/L	4.16	102006A	10/20/06	15:51
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:42
Potassium	SW 6010B	17.8	2.08	mg/L	1.00	102006A	10/20/06	13:47
Sodium	SW 6010B	1030	20.8	mg/L	4.16	102006A	10/20/06	15:51

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CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 10 Days

DATE 10/10/06 PAGE 1 OF 1

959639

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199) Lab Filtered	Dissolved Metals (6010B) Field Filtered	22 B,Ca,Mg,K,Na,Mn,Fe	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS
1	OW-02D-010	10/10/06	1018	Groundwater	X	X	X	X	X		3
2	OW-02M-010	10/10/06	1040	Groundwater	X	X	X	X	X		3
3	MW-91-010	10/10/06	1300	Groundwater	X	X	X	X	X		3
4	OW-01S-010	10/10/06	1220	Groundwater	X	X	X	X	X		3
5	OW-01M-010	10/10/06	1350	Groundwater	X	X	X	X	X		3
6	OW-01D-010	10/10/06	1440	Groundwater	X	X	X	X	X		3
7	OW-03M-010	10/10/06	1530	Groundwater	X	X	X	X	X		3
8	EB-CMP-010-01	10/10/06	1540	Groundwater	X	X	X	X	X		3

ALERT !!
Level III QC

For Sample Conditions See Form Attached

COMMENTS

Rec'd 10/10/06
slib 959639

pH-2

Rec'd 1 bottle only (Cr6)

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allan Ericksen	C H2M HILL	10/10/06 1600
Signature (Received)	FRED DOUGLAS	EXECUTIVE	10/10/06 1600
Signature (Relinquished)			
Signature (Received) Ann Brown	Ann Brown		10-10-06 20:30
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TRUESDAIL LABORATORIES, INC.

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October 31, 2006

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK 2006-CMP-010, GROUNDWATER MONITORING PROJECT, TLI NO.: 959640

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 groundwater-monitoring project for Total Dissolved and Hexavalent Chromium, pH, Total Dissolved Solids, Specific Conductivity, and Title 22 Metals. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, wet chemistry raw data, 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 October 10, 2006, 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.

Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00

Laboratory No.: 959640
Date: November 28, 2006
Collected: October 10, 2006
Received: October 10, 2006

ANALYST LIST

SW 7199	Hexavalent Chromium	Faisal Raihan
SW 6010B	Dissolved Metals by ICP	Riddhi Patel
SW 6020	Dissolved Metals by ICP/MS	Riddhi Patel
SW 7470A	Mercury	Aksiniya Dimitrova
EPA 120.1	Specific Conductivity	Kim Luck
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Prep. Batch: 10CrH06N

Laboratory No.: 959640
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 10, 2006
Analytical Batch: 10CrH06N

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959640-1	OW-05S-010	09:30	21:54	mg/L	5.00	0.0010	0.0254
959640-2	OW-02S-010	11:15	22:03	mg/L	5.00	0.0010	0.0342
959640-3	MW-90-010a	13:30	22:12	mg/L	5.00	0.0010	0.0348

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959638-1	9.66	9.67	0.186%	≤ 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	959640-1	0.0254	5.00	0.0100	0.0500	0.0748	0.0754	98.8%	85-115%	Yes
MS	959640-2	0.0342	5.00	0.0100	0.0500	0.0832	0.0842	98.0%	85-115%	Yes
MSD	959640-3	0.0348	5.00	0.0100	0.0500	0.0829	0.0848	96.2%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00488	0.00500	97.6%	90% - 110%	Yes
MRCVS#1	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#2	0.00966	0.0100	96.6%	90% - 110%	Yes
MRCVS#3	0.00966	0.0100	96.6%	90% - 110%	Yes
MRCVS#4	0.00994	0.0100	99.4%	90% - 110%	Yes
MRCVS#5	0.0104	0.0100	104%	90% - 110%	Yes
LCS	0.00505	0.00500	101%	90% - 110%	Yes
LCSD	0.00505	0.00500	101%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Prep. Batch: 101706A

Laboratory No.: 959640
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 101706A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Dissolved Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959640-1	OW-05S-010	09:30	11:36	mg/L	1.04	0.0010	0.0221
959640-2	OW-02S-010	11:15	14:12	mg/L	2.08	0.0021	0.0362
959640-3	MW-90-010a	13:30	14:16	mg/L	2.08	0.0021	0.0342

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959698-5	0.00237	0.00260	9.26%	≤ 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	959698-5	0.00237	1.04	0.0100	0.0104	0.0109	0.0128	82.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#1	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#2	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#3	0.0105	0.0100	105%	90% - 110%	Yes
ICS	0.0102	0.0100	102%	80% - 120%	Yes
LCS	0.0100	0.0100	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.
*: The sample was filtered in the laboratory.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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.: 959640

Sample: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00

Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 12, 2006
Analytical Batch: 10EC06M

Investigation: **Specific Conductivity by EPA 120.1**

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959640-1	OW-05S-010	µmhos/cm	EPA 120.1	1.00	2.00	1590
959640-2	OW-02S-010	µmhos/cm	EPA 120.1	1.00	2.00	1690
959640-3	MW-90-010a	µmhos/cm	EPA 120.1	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	959640-1	1590	1590	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	699	706	99.0%	90% - 110%	Yes
CVS#1	921	1000	92.1%	90% - 110%	Yes
CVS#2	926	1000	92.6%	90% - 110%	Yes
LCS	712	706	101%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi

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.: 959640

Sample: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00

Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 11, 2006
Analytical Batch: 10PH06I

Investigation: **pH by EPA 150.1**

Analytical Results pH

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	RL	Results
959640-1	OW-05S-010	09:30	09:40	pH Units	2.00	7.76
959640-2	OW-02S-010	11:15	09:44	pH Units	2.00	7.89
959640-3	MW-90-010a	13:30	09:48	pH Units	2.00	7.91

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959638-6	7.04	7.04	0.00	± 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #2	7.01	7.00	0.01	± 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Prep. Batch: 10TDS06G

Laboratory No.: 959640
Date: October 31, 2006
Collected: October 10, 2006
Received: October 10, 2006
Prep/ Analyzed: October 14, 2006
Analytical Batch: 10TDS06G

Investigation: **Total Dissolved Solids by EPA 160.1**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Sample Time	Units	Method	RL	Results
959640-1	OW-05S-010	09:30	mg/L	EPA 160.1	50.0	942
959640-2	OW-02S-010	11:15	mg/L	EPA 160.1	50.0	1180
959640-3	MW-90-010a	13:30	mg/L	EPA 160.1	50.0	1160

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959639-5	4010	3880	1.65%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	486	500	97.2%	90% - 110%	Yes
LCS 2	494	500	98.8%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi

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

Samples: Three (3) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Investigation: Total Dissolved Metal Analyses as Requested

Laboratory No.: 959640
Reported: November 28, 2006
Collected: October 10, 2006
Received: October 10, 2006
Analyzed: October 6 - 24, 2006
Revision 1

Analytical Results

SAMPLE ID: OW-05S-010 **Time Collected:** 09:30 **LAB ID:** 959640-1

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	15:18
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:16
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:18
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:16
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:16
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:16
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:16
Magnesium	SW 6010B	8.38	2.08	mg/L	1.00	102006A	10/20/06	13:56
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:18
Mercury	SW 7470a	ND	1.00	mg/L	0.00020	10HG06D	10/16/06	13:28
Molybdenum	SW 6020	0.0253	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:18
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Thallium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:16
Vanadium	SW 6020	0.0053	2.08	mg/L	0.0050	102706A	10/27/06	15:16
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:18
Boron	SW 6010B	0.449	1.04	mg/L	0.200	101306A	10/13/06	15:18
Calcium	SW 6010B	51.7	5.21	mg/L	1.04	102006A	10/20/06	16:00
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:18
Potassium	SW 6010B	8.11	2.08	mg/L	1.00	102006A	10/20/06	13:56
Sodium	SW 6010B	182	5.21	mg/L	1.04	102006A	10/20/06	16:00

SAMPLE ID: OW-02S-010		Time Collected:	11:15			LAB ID:	959640-2	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	0.152	1.04	mg/L	0.0520	101306A	10/13/06	15:22
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:22
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:22
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:22
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:22
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:22
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:22
Magnesium	SW 6010B	4.84	2.08	mg/L	1.00	102006A	10/20/06	13:59
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:22
Mercury	SW 7470a	ND	1.00	mg/L	0.00020	10HG06D	10/16/06	13:30
Molybdenum	SW 6020	0.0453	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:22
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Thallium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:22
Vanadium	SW 6020	0.0063	2.08	mg/L	0.0050	102706A	10/27/06	15:22
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:22
Boron	SW 6010B	0.762	1.04	mg/L	0.200	101306A	10/13/06	15:22
Calcium	SW 6010B	38.2	2.08	mg/L	1.00	102006A	10/20/06	13:59
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:22
Potassium	SW 6010B	7.51	2.08	mg/L	1.00	102006A	10/20/06	13:59
Sodium	SW 6010B	269	5.21	mg/L	1.04	102006A	10/20/06	16:03

TRUESDAIL LABORATORIES, INC.

Report Continued

SAMPLE ID: MW-90-010a **Time Collected:** 13:30 **LAB ID:** 959640-3

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	15:27
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	15:28
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:27
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	15:28
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:28
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	15:28
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	15:28
Magnesium	SW 6010B	4.58	2.08	mg/L	1.00	102006A	10/20/06	14:02
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	15:27
Mercury	SW 7470a	ND	1.00	mg/L	0.00020	10HG06C	10/12/06	13:33
Molybdenum	SW 6020	0.0432	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306B	10/13/06	15:27
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Thallium	SW 6020	ND	10.4	mg/L	0.0052	102706A	10/27/06	15:28
Vanadium	SW 6020	0.0067	2.08	mg/L	0.0050	102706A	10/27/06	15:28
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	15:27
Boron	SW 6010B	0.748	1.04	mg/L	0.200	101306A	10/13/06	15:27
Calcium	SW 6010B	36.5	2.08	mg/L	1.00	102006A	10/20/06	14:02
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	15:27
Potassium	SW 6010B	7.08	2.08	mg/L	1.00	102006A	10/20/06	14:02
Sodium	SW 6010B	232	5.21	mg/L	1.04	102006A	10/20/06	16:06

ND: Not detected,or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
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CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 10 Days

DATE 10/10/06 PAGE 1 OF 1

959640

COMPANY	E2
PROJECT NAME	PG&E Topock
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612
P.O. NUMBER	348319.CM.FW.00 TEAM 1
SAMPLERS (SIGNATURE	

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Title 22 B,Ca,Mg,K,Na,Mn,Fe	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
1	GW-055-010	10/10/06	0920	GRAB	X	X	X	X	X	3	pH-2
2	GW-025-010	10/10/06	1115	Grab water	X	X	X	X	X	3	
3	MW-90-010	10/10/06	1330	Grab water	X	X	X	X	X	3	

For Sample Conditions See Form Attached

ALERT !! Level IV QC

Rec'd 10/10/06
slib 959640

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allen Eriksen	CH2MHill	10/10/06 1700
Signature (Received)	FRED DOUGLAS	EXECUTIVE	10/10/06 1600
Signature (Relinquished)			
Signature (Received)	Ann Brown		10-10-06 20:30
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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December 11, 2006

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 2006-CMP-010 PROJECT, GROUNDWATER MONITORING

TLI NO.: 959698

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 project groundwater monitoring. A summary table for this laboratory number 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 have been included under Section 5.

The samples were received and delivered with the chain of custody on October 11, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter they will be kept in warm storage for an additional 2 months before disposal.

Shawn Duffy requested that the pH be re-analyzed for samples 959698-1 through 959698-7 and 959698-9. The results from the re-analyses, which were past the method specified holding time, were reported. The discrepancy between the first and second analyses was possibly due to a faulty probe or instrument, which will be serviced to correct the problem.

No violations or nonconformance 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.

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: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006

ANALYST LIST

SW 7199	Hexavalent Chromium	Faisal Raihan / Stanley Hsieh
SW 6010B	Dissolved Metals by ICP	Riddhi Patel
SW 6020	Dissolved Metals by ICP/MS	Riddhi Patel
SW 7470A	Mercury	Aksiniya Dimitrova
EPA 120.1	Specific Conductivity	Kim Luck
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat

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REPORT

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

Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959698

Date: December 11, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: December 11, 2006
Analytical Batch: 12PH06G
Revision 2

Investigation: **pH by EPA 150.1**

Analytical Results pH

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	RL	Results
959698-2	CW-02D-010	10:30	09:48	pH Units	2.00	7.80 J
959698-5	CW-04D-010	14:00	09:52	pH Units	2.00	7.75 J
959698-6	OW-05M-010	12:20	09:56	pH Units	2.00	7.91 J
959698-7	OW-05D-010	14:40	10:00	pH Units	2.00	7.88 J

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959698-7	7.88	7.89	0.01	± 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.00	7.00	0.00	± 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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

Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959698
Date: November 28, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: November 27, 2006
Analytical Batch: 11PH06TA
Revision 1

Investigation: **pH by EPA 150.1**

Analytical Results pH

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	RL	Results
959698-1	CW-02M-010	08:45	15:15	pH Units	2.00	7.76 J
959698-3	CW-01M-010	10:30	15:18	pH Units	2.00	7.86 J
959698-4	CW-04M-010	12:35	15:22	pH Units	2.00	7.76 J
959698-9	CW-03D-010	15:30	15:25	pH Units	2.00	7.56 J

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959698-4	7.76	7.81	0.05	± 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.01	7.00	0.01	± 0.100 Units	Yes
LCS #1	7.01	7.00	0.01	± 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10CrH06P

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 11, 2006
Analytical Batch: 10CrH06P

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959698-1	CW-02M-010	08:45	22:38	mg/L	1.05	0.00020	0.0156
959698-2	CW-02D-010	10:30	23:34	mg/L	5.00	0.0010	0.0030
959698-3	CW-01M-010	10:30	22:56	mg/L	1.05	0.00020	0.0127
959698-4	CW-04M-010	12:35	23:06	mg/L	1.05	0.00020	0.0212

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959698-1	0.0156	0.0157	0.64%	≤ 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	959698-1	0.0156	1.08	0.0200	0.0216	0.0379	0.0372	103%	85-115%	Yes
MS	959698-2	0.0030	5.00	0.00100	0.00500	0.00780	0.00800	96.0%	85-115%	Yes
MS	959698-3	0.0127	1.09	0.0150	0.0164	0.0294	0.0291	102%	85-115%	Yes
MS	959698-4	0.0212	1.11	0.0250	0.0278	0.0494	0.0490	102%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00491	0.00500	98.2%	90% - 110%	Yes
MRCVS#1	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#2	0.0101	0.0100	101%	90% - 110%	Yes
LCS	0.00495	0.00500	99.0%	90% - 110%	Yes
LCSD	0.00492	0.00500	98.4%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10CrH06Q

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 11 - 12, 2006
Analytical Batch: 10CrH06Q

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959698-5	CW-04D-010	14:00	10/11/06; 22:45	mg/L	5.00	0.0010	0.0023
959698-6	OW-05M-010	12:20	10/11/06; 22:15	mg/L	1.05	0.00020	0.0020
959698-7	OW-05D-010	14:40	10/11/06; 22:25	mg/L	1.05	0.00020	ND
959698-8	EB-CMP-010-02	15:00	10/12/06; 00:17	mg/L	1.05	0.00020	ND
959698-9	CW-03D-010	15:30	10/11/06; 23:36	mg/L	5.00	0.0010	0.0025
959698-10	EB-CMP-010-03	15:40	10/12/06; 00:27	mg/L	1.05	0.00020	ND

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 101706A

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 101706A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Dissolved Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959698-1	CW-02M-010	08:45	14:21	mg/L	2.08	0.0021	0.0143
959698-2	CW-02D-010	10:30	11:53	mg/L	1.04	0.0010	0.0026
959698-3	CW-01M-010	10:30	14:25	mg/L	2.08	0.0021	0.0121
959698-4	CW-04M-010	12:35	12:02	mg/L	1.04	0.0010	0.0168
959698-5	CW-04D-010	14:00	12:06	mg/L	1.04	0.0010	0.0024
959698-6	OW-05M-010	12:20	13:15	mg/L	1.04	0.0010	0.0020
959698-7	OW-05D-010	14:40	13:19	mg/L	1.04	0.0010	ND
959698-9	CW-03D-010	15:30	13:23	mg/L	1.04	0.0010	0.0020

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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

Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 12, 2006
Analytical Batch: 10EC06M

Investigation: **Specific Conductivity by EPA 120.1**

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959698-1	CW-02M-010	µmhos/cm	EPA 120.1	1.00	2.00	6110
959698-2	CW-02D-010	µmhos/cm	EPA 120.1	10.0	20.0	12300
959698-3	CW-01M-010	µmhos/cm	EPA 120.1	1.00	2.00	6190
959698-4	CW-04M-010	µmhos/cm	EPA 120.1	1.00	2.00	5310
959698-5	CW-04D-010	µmhos/cm	EPA 120.1	10.0	20.0	11500
959698-6	OW-05M-010	µmhos/cm	EPA 120.1	1.00	2.00	6870
959698-7	OW-05D-010	µmhos/cm	EPA 120.1	1.00	2.00	6550
959698-9	CW-03D-010	µmhos/cm	EPA 120.1	10.0	20.0	13100

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959640-1	1590	1590	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	699	706	99.0%	90% - 110%	Yes
CVS#1	921	1000	92.1%	90% - 110%	Yes
CVS#2	926	1000	92.6%	90% - 110%	Yes
LCS	712	706	101%	90% - 110%	Yes
LCSD	713	706	101%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Ellen C Hill
for Mona Nassimi

Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 10TDS06I

Laboratory No.: 959698
Date: November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 10TDS06I

Investigation: **Total Dissolved Solids by EPA 160.1**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Sample Time	Units	Method	RL	Results
959698-1	CW-02M-010	08:45	mg/L	EPA 160.1	250	3960
959698-2	CW-02D-010	10:30	mg/L	EPA 160.1	250	6310
959698-3	CW-01M-010	10:30	mg/L	EPA 160.1	250	4470
959698-4	CW-04M-010	12:35	mg/L	EPA 160.1	250	3640
959698-5	CW-04D-010	14:00	mg/L	EPA 160.1	312	7510
959698-6	OW-05M-010	12:20	mg/L	EPA 160.1	250	4630
959698-7	OW-05D-010	14:40	mg/L	EPA 160.1	250	4850
959698-9	CW-03D-010	15:30	mg/L	EPA 160.1	278	9580

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959698-5	7510	7310	1.35%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	480	500	96.0%	90% - 110%	Yes
LCS 2	466	500	93.2%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi

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REPORT

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

Samples: Ten (10) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01

Investigation: California Title 22, Section 26 Metals (Dissolved)

Laboratory No.: 959698
Reported November 3, 2006
Collected: October 11, 2006
Received: October 11, 2006
Analyzed: October 13 - 30, 2006

Analytical Results

SAMPLE ID: CW-02M-010 **Time Collected:** 08:45 **LAB ID:** 959698-1

Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:23
Antimony	SW 6020	ND	2.08	mg/L	0.0030	102706A	10/27/06	17:16
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:23
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	102706A	10/27/06	17:16
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	17:16
Chromium	SW 6010B	0.0143	2.08	mg/L	0.0021	101706A	10/17/06	14:21
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Copper	SW 6020	ND	2.08	mg/L	0.0100	102706A	10/27/06	17:16
Lead	SW 6020	ND	2.08	mg/L	0.0020	102706A	10/27/06	17:16
Magnesium	SW 6010B	7.26	2.08	mg/L	1.00	102006A	10/20/06	14:32
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:23
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:04
Molybdenum	SW 6020	0.0254	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:23
Selenium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Silver	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Thallium	SW 6020	ND	2.08	mg/L	0.0021	102706A	10/27/06	17:16
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	102706A	10/27/06	17:16
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:23
Boron	SW 6010B	1.22	1.04	mg/L	0.200	101306A	10/13/06	16:23
Calcium	SW 6010B	140	20.8	mg/L	4.16	102006A	10/20/06	16:21
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:23
Potassium	SW 6010B	17.7	2.08	mg/L	1.00	102006A	10/20/06	14:32
Sodium	SW 6010B	1160	20.8	mg/L	4.16	102006A	10/20/06	16:21

SAMPLE ID: CW-02D-010		Time Collected:	10:30			LAB ID:	959698-2	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:27
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	14:47
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:27
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	14:47
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	14:47
Chromium	SW 6010B	0.0026	1.04	mg/L	0.0010	101706A	10/17/06	11:53
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	14:47
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	14:47
Magnesium	SW 6010B	9.65	2.08	mg/L	1.00	102006A	10/20/06	14:35
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:27
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:07
Molybdenum	SW 6020	0.0600	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:27
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	14:47
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	14:47
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:27
Boron	SW 6010B	1.84	1.04	mg/L	0.200	101306A	10/13/06	16:27
Calcium	SW 6010B	271	52.1	mg/L	10.4	102006A	10/20/06	16:24
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:27
Potassium	SW 6010B	24.2	2.08	mg/L	1.00	102006A	10/20/06	14:35
Sodium	SW 6010B	2120	52.1	mg/L	10.4	102006A	10/20/06	16:24

SAMPLE ID: CW-01M-010		Time Collected:	10:30			LAB ID:	959698-3	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:32
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:11
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:32
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:11
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:11
Chromium	SW 6010B	0.0121	2.08	mg/L	0.0021	101706A	10/17/06	14:25
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:11
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:11
Magnesium	SW 6010B	9.02	2.08	mg/L	1.00	102006A	10/20/06	16:32
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	14:57
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:09
Molybdenum	SW 6020	0.0244	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:32
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:11
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:11
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:32
Boron	SW 6010B	1.25	1.04	mg/L	0.200	101306A	10/13/06	16:32
Calcium	SW 6010B	145	20.8	mg/L	4.16	102006A	10/20/06	16:27
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:32
Potassium	SW 6010B	15.5	2.08	mg/L	1.00	102006A	10/20/06	14:38
Sodium	SW 6010B	1120	20.8	mg/L	4.16	102006A	10/20/06	16:27

SAMPLE ID: CW-04M-010		Time Collected:	12:35			LAB ID:	959698-4	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:36
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:17
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:36
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:17
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:17
Chromium	SW 6010B	0.0168	1.04	mg/L	0.0010	101706A	10/17/06	12:02
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:17
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:17
Magnesium	SW 6010B	9.77	2.08	mg/L	1.00	102006A	10/20/06	14:41
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:36
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:11
Molybdenum	SW 6020	0.0160	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:36
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:17
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:17
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:36
Boron	SW 6010B	1.08	1.04	mg/L	0.200	101306A	10/13/06	16:36
Calcium	SW 6010B	156	20.8	mg/L	4.16	102006A	10/20/06	16:29
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:36
Potassium	SW 6010B	15.6	2.08	mg/L	1.00	102006A	10/20/06	14:41
Sodium	SW 6010B	937	20.8	mg/L	4.16	102006A	10/20/06	16:29

SAMPLE ID: CW-04D-010		Time Collected:	14:00			LAB ID:	959698-5	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:40
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:23
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:40
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:23
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:23
Chromium	SW 6010B	0.0024	1.04	mg/L	0.0010	101706A	10/17/06	12:06
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:23
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:23
Magnesium	SW 6010B	14.7	2.08	mg/L	1.00	102006A	10/20/06	14:44
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:40
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:13
Molybdenum	SW 6020	0.0436	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:40
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:23
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:23
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:40
Boron	SW 6010B	1.72	1.04	mg/L	0.200	101306A	10/13/06	16:40
Calcium	SW 6010B	353	52.1	mg/L	10.4	102006A	10/20/06	16:32
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:40
Potassium	SW 6010B	25.6	2.08	mg/L	1.00	102006A	10/20/06	14:44
Sodium	SW 6010B	2230	52.1	mg/L	10.4	102006A	10/20/06	16:32

SAMPLE ID: OW-05M-010		Time Collected: 12:20				LAB ID: 959698-6		
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:45
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:29
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:45
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:29
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:29
Chromium	SW 6010B	0.0020	1.04	mg/L	0.0010	101706A	10/17/06	13:15
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:29
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:29
Magnesium	SW 6010B	8.06	2.08	mg/L	1.00	102006A	10/20/06	14:46
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:45
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:15
Molybdenum	SW 6020	0.0271	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:45
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:29
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:29
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:45
Boron	SW 6010B	1.43	1.04	mg/L	0.200	101306A	10/13/06	16:45
Calcium	SW 6010B	140	20.8	mg/L	4.16	102006A	10/20/06	16:35
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:45
Potassium	SW 6010B	16.6	2.08	mg/L	1.00	102006A	10/20/06	14:46
Sodium	SW 6010B	1170	20.8	mg/L	4.16	102006A	10/20/06	16:35

SAMPLE ID: OW-05D-010		Time Collected:	14:40			LAB ID:	959698-7	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:49
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:35
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:49
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:35
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:35
Chromium	SW 6010B	ND	1.04	mg/L	0.0010	101706A	10/17/06	13:19
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:35
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:35
Magnesium	SW 6010B	8.89	2.08	mg/L	1.00	102006A	10/20/06	14:49
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:49
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:18
Molybdenum	SW 6020	0.0126	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:49
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:35
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:35
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:49
Boron	SW 6010B	1.22	1.04	mg/L	0.200	101306A	10/13/06	16:49
Calcium	SW 6010B	174	20.8	mg/L	4.16	102006A	10/20/06	16:38
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:49
Potassium	SW 6010B	20.9	2.08	mg/L	1.00	102006A	10/20/06	14:49
Sodium	SW 6010B	1320	41.6	mg/L	8.32	102006A	10/20/06	16:52

SAMPLE ID: CW-03D-010		Time Collected:	15:30			LAB ID:	959698-9	
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	SW 6010B	ND	1.04	mg/L	0.0520	101306A	10/13/06	16:53
Antimony	SW 6020	ND	2.08	mg/L	0.0030	100306A	10/30/06	15:41
Arsenic	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Barium	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:53
Beryllium	SW 6020	ND	2.08	mg/L	0.0010	103006A	10/30/06	15:41
Cadmium	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:41
Chromium	SW 6010B	0.0020	1.04	mg/L	0.0010	101706A	10/17/06	13:23
Cobalt	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Copper	SW 6020	ND	2.08	mg/L	0.0100	103006A	10/30/06	15:41
Lead	SW 6020	ND	2.08	mg/L	0.0020	103006A	10/30/06	15:41
Magnesium	SW 6010B	18.1	2.08	mg/L	1.00	102006A	10/20/06	14:52
Manganese	SW 6010B	ND	1.04	mg/L	0.500	101306A	10/13/06	16:53
Mercury	SW 7470A	ND	1.00	mg/L	0.00020	10HG06F	10/17/06	16:20
Molybdenum	SW 6020	0.0520	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Nickel	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:53
Selenium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Silver	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Thallium	SW 6020	ND	2.08	mg/L	0.0021	103006A	10/30/06	15:41
Vanadium	SW 6020	ND	2.08	mg/L	0.0050	103006A	10/30/06	15:41
Zinc	SW 6010B	ND	1.04	mg/L	0.0200	101306A	10/13/06	16:53
Boron	SW 6010B	1.85	1.04	mg/L	0.200	101306A	10/13/06	16:53
Calcium	SW 6010B	353	52.1	mg/L	10.4	102006A	10/20/06	16:41
Iron	SW 6010B	ND	1.04	mg/L	0.300	101306A	10/13/06	16:53
Potassium	SW 6010B	31.7	2.08	mg/L	1.00	102006A	10/20/06	14:52
Sodium	SW 6010B	2440	52.1	mg/L	10.4	102006A	10/20/06	16:41

ND: Not detected,or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

959698

108

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

CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 10 Days

DATE 10/11/06 PAGE 1 OF 2

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE

ALERT !!
Level III QC

Rec'd 10/11/06
959698

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199)	Diss Metals (6010B) Hard Filtered Time	22 B,Ca,Mg,K,Na,Mn,Fe	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-1	CW-02M-010	10/11/06	0845	GW	X	X	X	X	X		1	
-2	CW-02D-010	10/11/06	1030	GW	X	X	X	X	X		1	
-3	CW-01M-010	10/11/06	1030	GW	X	X	X	X	X		1	
-4	CW-04M-010	10/11/06	1235	GW	X	X	X	X	X		1	
-5	CW-04D-010	10/11/06	1400	GW	X	X	X	X	X		1	
-6	OW-05M-010	10/11/06	1220	GW	X	X	X	X	X		1	
-7	OW-05D-010	10/11/06	1440	GW	X	X	X	X	X		1	
-8	EB-CMP-010-02	10/11/06	1500	GW	X						1	
-9	CW-03D-010	10/11/06	1530	GW	X	X	X	X	X		2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allen Ericksen	CH2M HILL	10/11/06 1530
Signature (Received)	J Brown	TRI	10-11-06 2014
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

For Sample Conditions See Form Attached

959698

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CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 10 Days

DATE 10/11/06 PAGE 2 OF 2

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE)

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Title 22 B Ca Mg K Na Mn Fe	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
-10 EB-CMP-010-03	10/11/06	1540	EB	X					1	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allan Steinhurst	CH2M HILL	10/11/06 1550
Signature (Received)	J Brown	TLI	10-11-06 2040
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

14201 FRANKLIN AVENUE
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October 27, 2006

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK 2006-CMP-010, GROUNDWATER MONITORING PROJECT, TLI NO.: 959744

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 groundwater-monitoring project for Total Dissolved and Hexavalent Chromium, pH, Total Dissolved Solids, and Specific Conductivity. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, wet chemistry raw data, 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 October 12, 2006, 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.

Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

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(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2

Laboratory No.: 959744
Date: November 28, 2006
Collected: October 12, 2006
Received: October 12, 2006

ANALYST LIST

SW 7199	Hexavalent Chromium	Stanley Hsieh
SW 6010B	Dissolved Metals by ICP	Riddhi Patel
EPA 120.1	Specific Conductivity	Kim Luck / Tina Acquiat
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat

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REPORT

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

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2
P.O. No.: 332959.CM.FW.E2

Laboratory No.: 959744
Date: October 27, 2006
Collected: October 12, 2006
Received: October 12, 2006
Prep/ Analyzed: October 26, 2006
Analytical Batch: 10EC06V

Investigation: **Specific Conductivity by EPA 120.1**

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959744	OW-01D-010	µmhos/cm	EPA 120.1	10.0	20.0	8380

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	960134	8620	8650	0.35%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	697	706	98.7%	90% - 110%	Yes
CVS#1	950	1000	95.0%	90% - 110%	Yes
LCS	697	706	98.7%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2
P.O. No.: 332959.CM.FW.E2

Laboratory No.: 959744
Date: November 28, 2006
Collected: October 12, 2006
Received: October 12, 2006
Prep/ Analyzed: November 27, 2006
Analytical Batch: 11PH06TA
Revision 1

Investigation: **pH by EPA 150.1**

Analytical Results pH

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	RL	Results
959744	OW-01D-010	09:50	15:28	pH Units	2.00	7.71 J

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959698-4	7.76	7.81	0.05	± 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.01	7.00	0.01	± 0.100 Units	Yes
LCS #1	7.01	7.00	0.01	± 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi

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
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2
P.O. No.: 332959.CM.FW.E2
Prep. Batch: 10TDS06I

Laboratory No.: 959744
Date: October 27, 2006
Collected: October 12, 2006
Received: October 12, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 10TDS06I

Investigation: **Total Dissolved Solids by EPA 160.1**

Analytical Results Total Dissolved Solids

TLI I.D.	Field I.D.	Sample Time	Units	Method	RL	Results
959744	OW-01D-010	09:50	mg/L	EPA 160.1	250	4970

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959744	4970	5340	3.59%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	480	500	96.0%	90% - 110%	Yes
LCS 2	466	500	93.2%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi

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: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2
P.O. No.: 332959.CM.FW.E2
Prep. Batch: 10CrH06R

Laboratory No.: 959744
Date: October 27, 2006
Collected: October 12, 2006
Received: October 12, 2006
Prep/ Analyzed: October 12, 2006
Analytical Batch: 10CrH06R

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959744	OW-01D-010	09:50	21:30	mg/L	1.05	0.00020	0.0010

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959747-3	0.0178	0.0178	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	959744	0.0010	1.06	0.00500	0.00530	0.00644	0.00630	103%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00463	0.00500	92.6%	90% - 110%	Yes
MRCVS#1	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#2	0.0102	0.0100	102%	90% - 110%	Yes
MRCVS#3	0.0102	0.0100	102%	90% - 110%	Yes
MRCVS#4	0.0101	0.0100	101%	90% - 110%	Yes
LCS	0.00495	0.00500	99.0%	90% - 110%	Yes
LCSD	0.00496	0.00500	99.2%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.E2
P.O. No.: 332959.CM.FW.E2
Prep. Batch: 101706A

Laboratory No.: 959744
Date: October 27, 2006
Collected: October 12, 2006
Received: October 12, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 101706A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Dissolved Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959744	OW-01D-010	09:50	11:32	mg/L	1.04	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959698-5	0.00237	0.00260	9.26%	≤ 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	959698-5	0.00237	1.04	0.0100	0.0104	0.0109	0.0128	82.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#1	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#2	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#3	0.0105	0.0100	105%	90% - 110%	Yes
ICS	0.0102	0.0100	102%	80% - 120%	Yes
LCS	0.0100	0.0100	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).
DF: Dilution Factor.
*: The sample was filtered in the laboratory.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

John A Hill
for Mona Nassimi

Mona Nassimi, Manager
Analytical Services

CHAIN OF CUSTODY RECORD

[~~2006-GMP-110-Q3~~] CMP

COC Number 959744

TURNAROUND TIME 10 Days

DATE 10/12/06 PAGE 1 OF 1

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

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER ~~338284.GM.02.00~~ TEAM 1

SAMPLERS (SIGNATURE)

ALERT W
Level III QC

Rec'd 10/12/06
~~SVL~~ 959744

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7196A) Lab Filtered	CR6 (7199) Lab Filtered	Dissolved Metals (6010B) Field Filtered Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	NUMBER OF CONTAINERS	COMMENTS
GW-01D-010	10/12/06	0950	GW	X	X	X	X	X			pH-2

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name Matt Ringler	Company/ Agency E2	Date/ Time 10/12/06 1540	
Signature (Received)	Printed Name [illegible]	Company/ Agency T-L-I	Date/ Time 10/12/06 21:20	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

037

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www.truesdail.com

December 4, 2006

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK 2006-CMP-010, GROUNDWATER MONITORING PROJECT, TLI NO.: 960933

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 groundwater-monitoring project for Total Dissolved and Hexavalent Chromium. 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 November 21, 2006, 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.

Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Prep. Batch: 11CrH06M

Laboratory No.: 960933
Date: December 4, 2006
Collected: November 21, 2006
Received: November 21, 2006
Prep/ Analyzed: November 22, 2006
Analytical Batch: 11CrH06M

Investigation: **Hexavalent Chromium by IC using SW 7199**

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
960933	OW-2S-010C	12:44	06:16	mg/L	5.00	0.0010	0.0380

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	960933	0.0380	0.0379	0.26%	≤ 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	960933	0.0380	5.00	0.0100	0.0500	0.0868	0.0880	97.6%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00512	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.0100	0.0100	100%	90% - 110%	Yes
LCS	0.00510	0.00500	102%	90% - 110%	Yes
LCSD	0.00512	0.00500	102%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 348319.CM.FW.00
P.O. No.: 348319.CM.FW.00
Prep. Batch: 112906A

Laboratory No.: 960933
Date: December 4, 2006
Collected: November 21, 2006
Received: November 21, 2006
Prep/ Analyzed: November 29, 2006
Analytical Batch: 112906A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Dissolved Chromium

TLI I.D.	Field I.D.	Sample Time	Method	Run Time	Units	DF	RL	Results
960933	OW-2S-010C	12:44	SW 6010B	10:20	mg/L	5.21	0.0052	0.0400

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	960933	0.0400	0.0404	1.00%	≤ 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	960933	0.0400	5.21	0.0100	0.0521	0.0973	0.0921	110%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#1	0.0108	0.0100	108%	90% - 110%	Yes
ICS	0.00956	0.0100	95.6%	80% - 120%	Yes
LCS	0.0105	0.0100	105%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

960933

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

CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 10 Days

DATE 11-21-06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE) Gary Steele

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199) Lab Filtered	Diss Metals (6010B) Field Filtered Trip Blk	22 B,Ca,Mg,K,Na,Mn,Sr	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Cr T (6010B) Field Filtered	Rec'd 11/21/06 960933	NUMBER OF CONTAINERS	COMMENTS
QU-25-010C	11-21-06	1244	GW	X						X		2	pH=2
												2	

ALERT!! Level III QC

For Sample Conditions See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Gary Steele	ENT Topock ENS	11-21-06 1318
Signature (Received)	N.B.	TLI	11/21/06 9:00
Signature (Relinquished)			
Signature (Received)			
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

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

December 13, 2006

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK 2006-CMP-010, GROUNDWATER MONITORING PROJECT, TLI NO.: 961416

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock 2006-CMP-010 groundwater-monitoring project for Total Iron. 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 on October 10, 11, and 12, 2006, 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.

Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

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

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Nineteen (19) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01

Laboratory No.: 961416
Date: December 13, 2006
Collected: October 10, 11, & 12, 2006
Received: October 10, 11, & 12, 2006

ANALYST LIST

SW 6010B	Total Metals by ICP	Riddhi Patel

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
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REPORT

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: Nineteen (19) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 332959.CM.FW.01
P.O. No.: 332959.CM.FW.01
Prep. Batch: 121206c

Laboratory No.: 961416
Date: December 13, 2006
Collected: October 10, 11, & 12, 2006
Received: October 10, 11, & 12, 2006
Prep/ Analyzed: December 12, 2006
Analytical Batch: 121206c

Investigation: **Total Iron by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using SW 6010B**

Analytical Results Total Iron

TLI I.D.	Field I.D.	Sample Time	Method	Run Time	Units	DF	RL	Results
961416-1	CW-01M-010	10:30	SW 6010B	17:30	mg/L	1.04	0.300	ND
961416-2	CW-01D-010	14:40	SW 6010B	17:47	mg/L	1.04	0.300	ND
961416-3	CW-02M-010	08:45	SW 6010B	17:51	mg/L	1.04	0.300	ND
961416-4	CW-02D-010	10:30	SW 6010B	17:55	mg/L	1.04	0.300	ND
961416-5	CW-03M-010	15:30	SW 6010B	18:00	mg/L	1.04	0.300	ND
961416-6	CW-03D-010	15:30	SW 6010B	18:04	mg/L	1.04	0.300	ND
961416-7	CW-04M-010	12:35	SW 6010B	18:08	mg/L	1.04	0.300	ND
961416-8	CW-04D-010	14:00	SW 6010B	18:12	mg/L	1.04	0.300	ND
961416-9	OW-01S-010	12:20	SW 6010B	18:17	mg/L	1.04	0.300	ND
961416-10	OW-01M-010	13:50	SW 6010B	18:21	mg/L	1.04	0.300	ND
961416-11	OW-02S-010	11:15	SW 6010B	18:41	mg/L	1.04	0.300	ND
961416-12	MW-90-010A	13:30	SW 6010B	18:46	mg/L	1.04	0.300	ND
961416-13	OW-02M-010	10:40	SW 6010B	18:50	mg/L	1.04	0.300	ND
961416-14	MW-91-010	13:00	SW 6010B	18:54	mg/L	1.04	0.300	ND
961416-15	OW-01S-010	12:20	SW 6010B	18:58	mg/L	1.04	0.300	ND
961416-16	OW-01M-010	13:50	SW 6010B	19:03	mg/L	1.04	0.300	ND
961416-17	OW-02S-010	11:15	SW 6010B	19:07	mg/L	1.04	0.300	ND
961416-18	MW-90-010A	13:30	SW 6010B	19:11	mg/L	1.04	0.300	ND
961416-19	OW-02M-010	10:40	SW 6010B	19:16	mg/L	1.04	0.300	ND

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

CHAIN OF CUSTODY

961416

TRUESDAIL LABORATORIES, INC.
14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008
(714) 730-6239 - FAX (714) 730-6462

[X] TURNAROUND TIME: Normal TAT
DATE: _____ PAGE: 1 OF 1

METHODS

COMPANY: E2
CONTACT:
PHONE: FAX:
ADDRESS:
Project & PO#: 332959.CM.FW.01
SAMPLES (SIGNATURE):

Rec'd 12/08/06
961416

ALERT!! Level III QC!

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Total Iron (6010B)	NUMBER OF CONTAINERS	COMMENTS
-1	CW-01M-010	10/11/06	10:30		X		Total Iron added 12/8/06 by Shawn Duffy
-2	CW-01D-010	10/10/06	14:40		X		
-3	CW-02M-010	10/11/06	08:45		X		
-4	CW-02D-010	10/11/06	10:20		X		
-5	CW-03M-010	10/10/06	15:30		X		
-6	CW-03D-010	10/11/06	15:30		X		
-7	CW-04M-010	10/11/06	12:35		X		
-8	CW-04D-010	10/11/06	14:00		X		
-9	OW-01S-010	10/10/06	12:20		X		
-10	OW-01M-010	10/10/06	13:50		X		

Chain of Custody Signature Record

	Signature	Company/ Agency	Date/ Time
1.	Shawn P. Duffy (Relinquished)	CH2M	12/8/06
2.	L. Shabecoff (Received)	TLI	12/8/06
3.	(Relinquished)		
4.	(Received)		
5.	(Relinquished)		
6.	(Received)		
7.	(Relinquished)		

LABORATORY SAMPLE LOGIN
(Enter following line items on Invoice):

MYOB Code	Description	Price
Total		0

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:
RECEIVED
Cool [ ] Warm [ ] _____ °F

CUSTODY SEALS
Yes [ ] No [ ]

SPECIAL REQUIREMENTS:

017

CHAIN OF CUSTODY

961416

TRUESDAIL LABORATORIES, INC.
14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008
(714) 730-6239 - FAX (714) 730-6462

X DATE: _____ TURNAROUND TIME: Normal TAT

PAGE: 1 OF 1

COMPANY: E2
CONTACT:
PHONE: _____ FAX: _____
ADDRESS:
Project & PO#: 332959.CM.FW.01

SAMPLES (SIGNATURE)

METHODS

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Total Iron (6010B)	ALERT: Level IV QC	NUMBER OF CONTAINER	COMMENTS
11	OW-02S-010	10/10/06	11:15		X			
12	MW-90-010A		13:30		X			
13	OW-02M-010		10:40		X			
14	MW-91-010		13:00		X			
15	OW-02D-010		10:18		X			
16	OW-05S-010		09:30		X			
17	OW-05M-010	10/11/06	12:20		X			
18	OW-05D-010	10/11/06	14:40		X			
19	OW-01D-010	10/12/06	09:50		X			

TOTAL NUMBER OF CONTAINERS

Chain of Custody Signature Record

1.	John P. Duffy Signature (Relinquished)	CH2M Company/ Agency	12/8/06 Date/ Time
2.	Signature(Received)	Company/ Agency	Date/ Time
3.	Signature (Relinquished)	Company/ Agency	Date/ Time
4.	Signature(Received)	Company/ Agency	Date/ Time
5.	Signature (Relinquished)	Company/ Agency	Date/ Time
6.	Signature(Received)	Company/ Agency	Date/ Time
7.	Signature (Relinquished)	Company/ Agency	Date/ Time

LABORATORY SAMPLE LOGIN
(Enter following line items on invoice):

MYOB Code	Description	Price
Total		0

SAMPLE CONDITIONS:

RECEIVED

Cool ☐ Warm ☐ _____ °F

CUSTODY SEALS

Yes ☐ No ☐

SPECIAL REQUIREMENTS:

0180

CHAIN OF CUSTODY

961416

TRUESDAIL LABORATORIES, INC.
14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008
(714) 730-6239 - FAX (714) 730-6462

[X] TURNAROUND TIME: Normal TAT
DATE: _____ PAGE: 1 OF 1

COMPANY: E2
CONTACT:
PHONE: _____ FAX: _____
ADDRESS:
Project & PO#: 332959.CM.FW.01
SAMPLES (SIGNATURE):

Rec'd 12/08/06
961416

ALERT!! Level III QC

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Total Iron (6010B)	NUMBER OF CONTAINERS	COMMENTS
1	CW-01M-010	10/11/06	10:30		X		
2	CW-01D-010	10/10/06	14:40		X		
3	CW-02M-010	10/11/06	08:45		X		
4	CW-02D-010	10/11/06	10:20		X		
5	CW-03M-010	10/10/06	15:30		X		
6	CW-03D-010	10/11/06	15:30		X		
7	CW-04M-010	10/11/06	12:35		X		
8	CW-04D-010	10/11/06	14:00		X		
9	OW-01S-010	10/10/06	12:20		X		
10	OW-01M-010	10/10/06	13:50		X		

METHODS

Chain of Custody Signature Record

	Signature	Company/ Agency	Date/ Time
1.	_____ (Relinquished)		
2.	L. Shabecoff (Received)	TLI	12/8/06
3.	_____ (Relinquished)		
4.	_____ (Received)		
5.	_____ (Relinquished)		
6.	_____ (Received)		
7.	_____ (Relinquished)		

LABORATORY SAMPLE LOGIN
(Enter following line items on Invoice):

MYOB Code	Description	Price
Total		0

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:

RECEIVED
Cool [ ] Warm [ ]
_____ °F

CUSTODY SEALS
Yes [ ] No [ ]

SPECIAL REQUIREMENTS:

CHAIN OF CUSTODY

961416

TRUESDAIL LABORATORIES, INC.
14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008
(714) 730-6239 - FAX (714) 730-6462

X TURNAROUND TIME: Normal TAT
DATE: _____ PAGE: 1 OF 2

COMPANY: E2
CONTACT:
PHONE: FAX:
ADDRESS:
Project & PO#: 332959.CM.FW.01
SAMPLES (SIGNATURE):

METHODS

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Total Iron (6010B)	NUMBER OF CONTAINERS	COMMENTS
11	OW-02S-010	10/10/06	11:15		X		
12	MW-90-010A	"	13:30		X		
13	OW-02M-010		10:40		X		
14	MW-91-010		13:00		X		
15	OW-02D-010		10:18		X		
16	OW-05S-010	↓	09:30		X		
17	OW-05M-010	10/11/06	12:20		X		
18	OW-05D-010	10/11/06	14:40		X		
19	OW-01D-010	10/12/06	09:50		X		

ALERT: Level III QC

Chain of Custody Signature Record

1.	Signature (Relinquished)	Company/ Agency	Date/ Time
2.	Signature(Received)	Company/ Agency	Date/ Time
3.	Signature (Relinquished)	Company/ Agency	Date/ Time
4.	Signature(Received)	Company/ Agency	Date/ Time
5.	Signature (Relinquished)	Company/ Agency	Date/ Time
6.	Signature(Received)	Company/ Agency	Date/ Time
7.	Signature (Relinquished)	Company/ Agency	Date/ Time

LABORATORY SAMPLE LOGIN
(Enter following line items on invoice):

MYOB Code	Description	Price
Total		0

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:

RECEIVED
Cool ☐ Warm ☐
_____ °F

CUSTODY SEALS
Yes ☐ No ☐

SPECIAL REQUIREMENTS:

06J103

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 12 Days

DATE 10/10/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Alkalinity (310.1)	Anions (300) Chloride,Fluoride,Sulfate	Nitrate/Nitrite (E353.3)	Ammonia (350.2)	Turbidity (180.1)	NUMBER OF CONTAINERS	COMMENTS
1	OW-02D-010	10/10/06	1018	Groundwater	x	x	x	x	x	2	
2	OW-02M-010	10/10/06	1040	Groundwater	x	x	x	x	x	2	
3	MW-91-010	10/10/06	1300	Groundwater	x	x	x	x	x	2	
4	OW-01S-010	10/10/06	1220	Groundwater	x	x	x	x	x	2	
5	OW-01M-010	10/10/06	1350	Groundwater	x	x	x	x	x	2	
6	OW-01D-010	10/10/06	1440	Groundwater	x	x	x	x	x	2	
7	OW-03M-010	10/10/06	1530	Groundwater	x	x	x	x	x	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allan Ericson	CH2M HILL	10/10/06
Signature (Received)	RED DOUGHTY	EXECUTIVE	10/10/06 1660
Signature (Relinquished)	Nichalle Bleiler	TLI	10/11/06 1128
Signature (Received)	Phil Hatcher	EMAX	10/11/06 1330
Signature (Relinquished)	Phil Hatcher	EMAX	10.11.06 1410
Signature (Received)	INDRA PATEL	EMAX	10-11-06 1410

SAMPLE CONDITIONS

RECEIVED COOL ☑ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS: T=3.2C

06J103

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 12 Days

DATE 10/10/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Alkalinity (310.1)	Anions (300) Chloride,Fluoride,Sulfate	Nitrate/Nitrite (E353.3)	Ammonia (350.2)	Turbidity (180.1)	NUMBER OF CONTAINERS	COMMENTS
8	OW-055-010	10/10/06	930	Groundwater	x	x	x	x	x	2	
9	OW-025-010	10/10/06	1115	Groundwater	x	x	x	x	x	2	
10	MW-90-010	10/10/06	1330	Groundwater	x	x	x	x	x	2	
	~~OW-015-010~~	~~10/10/06~~	~~1220~~	~~Groun~~							A2

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
1	Signature (Relinquished)	Alley Erickson	CH2M HILL	10/10/06
2	Signature (Received)	FRED DOUGLAS	EXECUTIVE	10/10/06 1600
3	Signature (Relinquished)	Nicholle Bleiler	TLI	10/11/06 1:28
4	Signature (Received)	Phil Hatcher	EMAX	10-11-06 1330
5	Signature (Relinquished)	Phil Hatcher	EMAX	10 11 06 1410
6	Signature (Received)	INDRA PATEL	EMAX	10-11-06 1410

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J103**

METHOD 180.1
TURBIDITY

Ten (10) water samples were received on 10/11/06 for Turbidity analyses by Method 180.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample

Lab control result was within QC limit.

4. Duplicate

Sample J103-10 was analyzed for duplicate. %RPD was within QC limit.

5. Sample Analysis

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

METHOD 180.1
TURBIDITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I30

SAMPLE ID	EMAX SAMPLE ID	RESULTS (NTU)	DLF	MOIST	RL (NTU)	MDL (NTU)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	TUJ006WB	ND	1	NA	1.00	0.100	10/12/0607:13	NA	TUJ006-03	TUJ006-01	TUJ006W	NA	NA
LCS1W	TUJ006WL	4.81	1	NA	1.00	0.100	10/12/0607:14	NA	TUJ006-04	TUJ006-01	TUJ006W	NA	NA
OW-02D-010	J103-01	ND	1	NA	1.00	0.100	10/12/0607:15	NA	TUJ006-05	TUJ006-01	TUJ006W	10/10/06	10/11/06
OW-02M-010	J103-02	ND	1	NA	1.00	0.100	10/12/0607:19	NA	TUJ006-06	TUJ006-01	TUJ006W	10/10/06	10/11/06
MW-91-010	J103-03	ND	1	NA	1.00	0.100	10/12/0607:22	NA	TUJ006-07	TUJ006-01	TUJ006W	10/10/06	10/11/06
OW-01S-010	J103-04	1.86	1	NA	1.00	0.100	10/12/0607:24	NA	TUJ006-08	TUJ006-01	TUJ006W	10/10/06	10/11/06
OW-01M-010	J103-05	17.0	1	NA	1.00	0.100	10/12/0607:27	NA	TUJ006-09	TUJ006-01	TUJ006W	10/10/06	10/11/06
CW-01D-010	J103-06	ND	1	NA	1.00	0.100	10/12/0607:29	NA	TUJ006-10	TUJ006-01	TUJ006W	10/10/06	10/11/06
CW-03M-010	J103-07	ND	1	NA	1.00	0.100	10/12/0607:30	NA	TUJ006-11	TUJ006-01	TUJ006W	10/10/06	10/11/06
OW-05S-010	J103-08	12.4	1	NA	1.00	0.100	10/12/0607:30	NA	TUJ006-12	TUJ006-01	TUJ006W	10/10/06	10/11/06
OW-02S-010	J103-09	1.18	1	NA	1.00	0.100	10/12/0607:30	NA	TUJ006-15	TUJ006-13	TUJ006W	10/10/06	10/11/06
MW-90-010	J103-10	ND	1	NA	1.00	0.100	10/12/0607:31	NA	TUJ006-16	TUJ006-13	TUJ006W	10/10/06	10/11/06
MW-90-010DUP	J103-10D	ND	1	NA	1.00	0.100	10/12/0607:33	NA	TUJ006-17	TUJ006-13	TUJ006W	10/10/06	10/11/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J103**

METHOD 300.0
ANIONS

Ten (10) water samples were received on 10/11/06 for Chloride, Fluoride, and Sulfate analyses by Method 300.0 in accordance with "Method for Determination of Inorganic Anions by Ion Chromatography", EPA 600/84-017.

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limits.

4. Duplicate

Duplicate sample was not designated in this SDG.

5. Matrix Spike

MS sample was not designated in this SDG.

6. Sample Analysis

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

METHOD 300.0
CHLORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I100

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	ICJ026WB	ND	1	NA	0.500	0.100	10/13/0621:31	NA	AJ14-30	AJ14-25	ICJ026W	NA	NA
LCS1W	ICJ026WL	1.89	1	NA	0.500	0.100	10/13/0621:46	NA	AJ14-31	AJ14-25	ICJ026W	NA	NA
LCD1W	ICJ026WC	1.90	1	NA	0.500	0.100	10/13/0622:02	NA	AJ14-32	AJ14-25	ICJ026W	NA	NA
OW-02M-010	J103-02	1920	500	NA	250	50.0	10/14/0604:21	NA	AJ14-56	AJ14-49	ICJ026W	10/10/06	10/11/06
MW-91-010	J103-03	1980	250	NA	125	25.0	10/14/0604:37	NA	AJ14-57	AJ14-49	ICJ026W	10/10/06	10/11/06
OW-01S-010	J103-04	584	250	NA	125	25.0	10/14/0604:52	NA	AJ14-58	AJ14-49	ICJ026W	10/10/06	10/11/06
MBLK2W	ICJ028WB	ND	1	NA	0.500	0.100	10/14/0605:40	NA	AJ14-61	AJ14-59	ICJ028W	NA	NA
LCS2W	ICJ028WL	1.90	1	NA	0.500	0.100	10/14/0605:56	NA	AJ14-62	AJ14-59	ICJ028W	NA	NA
LCD2W	ICJ028WC	1.90	1	NA	0.500	0.100	10/14/0606:11	NA	AJ14-63	AJ14-59	ICJ028W	NA	NA
OW-01M-010	J103-05	1980	250	NA	125	25.0	10/14/0606:27	NA	AJ14-64	AJ14-59	ICJ028W	10/10/06	10/11/06
CW-01D-010	J103-06	2120	500	NA	250	50.0	10/14/0606:43	NA	AJ14-65	AJ14-59	ICJ028W	10/10/06	10/11/06
CW-03M-010	J103-07	2690	250	NA	125	25.0	10/14/0606:59	NA	AJ14-66	AJ14-59	ICJ028W	10/10/06	10/11/06
OW-05S-010	J103-08	381	250	NA	125	25.0	10/14/0607:14	NA	AJ14-67	AJ14-59	ICJ028W	10/10/06	10/11/06
OW-02S-010	J103-09	397	250	NA	125	25.0	10/14/0607:30	NA	AJ14-68	AJ14-59	ICJ028W	10/10/06	10/11/06
MW-90-010	J103-10	394	250	NA	125	25.0	10/14/0607:46	NA	AJ14-69	AJ14-59	ICJ028W	10/10/06	10/11/06
MBLK3W	ICJ032WB	ND	1	NA	0.500	0.100	10/16/0611:44	NA	AJ16-03	AJ16-01	ICJ032W	NA	NA
LCS3W	ICJ032WL	1.85	1	NA	0.500	0.100	10/16/0612:00	NA	AJ16-04	AJ16-01	ICJ032W	NA	NA
LCD3W	ICJ032WC	1.84	1	NA	0.500	0.100	10/16/0612:15	NA	AJ16-05	AJ16-01	ICJ032W	NA	NA
OW-02D-010	J103-01	2040	200	NA	100	20.0	10/16/0612:31	NA	AJ16-06	AJ16-01	ICJ032W	10/10/06	10/11/06

METHOD 300.0
FLUORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I100

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	ICJ028WB	ND	1	NA	0.500	0.0500	10/14/0605:40	NA	AJ14-61	AJ14-59	ICJ028W	NA	NA
LCS1W	ICJ028WL	1.97	1	NA	0.500	0.0500	10/14/0605:56	NA	AJ14-62	AJ14-59	ICJ028W	NA	NA
LCD1W	ICJ028WC	1.97	1	NA	0.500	0.0500	10/14/0606:11	NA	AJ14-63	AJ14-59	ICJ028W	NA	NA
OW-02D-010	J103-01	1.78	1	NA	0.500	0.0500	10/14/0608:49	NA	AJ14-73	AJ14-71	ICJ028W	10/10/06	10/11/06
OW-02M-010	J103-02	2.02	1	NA	0.500	0.0500	10/14/0609:05	NA	AJ14-74	AJ14-71	ICJ028W	10/10/06	10/11/06
MW-91-010	J103-03	2.01	1	NA	0.500	0.0500	10/14/0609:21	NA	AJ14-75	AJ14-71	ICJ028W	10/10/06	10/11/06
OW-01S-010	J103-04	2.57	1	NA	0.500	0.0500	10/14/0609:37	NA	AJ14-76	AJ14-71	ICJ028W	10/10/06	10/11/06
OW-01M-010	J103-05	1.98	1	NA	0.500	0.0500	10/14/0609:52	NA	AJ14-77	AJ14-71	ICJ028W	10/10/06	10/11/06
CW-01D-010	J103-06	4.98	1	NA	0.500	0.0500	10/14/0610:08	NA	AJ14-78	AJ14-71	ICJ028W	10/10/06	10/11/06
CW-03M-010	J103-07	2.77	1	NA	0.500	0.0500	10/14/0610:24	NA	AJ14-79	AJ14-71	ICJ028W	10/10/06	10/11/06
OW-05S-010	J103-08	2.60	1	NA	0.500	0.0500	10/14/0610:40	NA	AJ14-80	AJ14-71	ICJ028W	10/10/06	10/11/06
OW-02S-010	J103-09	4.93	1	NA	0.500	0.0500	10/14/0612:11	NA	AJ14-84	AJ14-82	ICJ028W	10/10/06	10/11/06
MW-90-010	J103-10	4.92	1	NA	0.500	0.0500	10/14/0612:27	NA	AJ14-85	AJ14-82	ICJ028W	10/10/06	10/11/06

METHOD 300.0
SULFATE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I100

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	ICJ026WB	ND	1	NA	0.500	0.250	10/13/0621:31	NA	AJ14-30	AJ14-25	ICJ026W	NA	NA
LCS1W	ICJ026WL	4.64	1	NA	0.500	0.250	10/13/0621:46	NA	AJ14-31	AJ14-25	ICJ026W	NA	NA
LCD1W	ICJ026WC	4.65	1	NA	0.500	0.250	10/13/0622:02	NA	AJ14-32	AJ14-25	ICJ026W	NA	NA
OW-02M-010	J103-02	456	500	NA	250	125	10/14/0604:21	NA	AJ14-56	AJ14-49	ICJ026W	10/10/06	10/11/06
MW-91-010	J103-03	443	250	NA	125	62.5	10/14/0604:37	NA	AJ14-57	AJ14-49	ICJ026W	10/10/06	10/11/06
OW-01S-010	J103-04	137	250	NA	125	62.5	10/14/0604:52	NA	AJ14-58	AJ14-49	ICJ026W	10/10/06	10/11/06
MBLK2W	ICJ028WB	ND	1	NA	0.500	0.250	10/14/0605:40	NA	AJ14-61	AJ14-59	ICJ028W	NA	NA
LCS2W	ICJ028WL	4.68	1	NA	0.500	0.250	10/14/0605:56	NA	AJ14-62	AJ14-59	ICJ028W	NA	NA
LCD2W	ICJ028WC	4.67	1	NA	0.500	0.250	10/14/0606:11	NA	AJ14-63	AJ14-59	ICJ028W	NA	NA
OW-01M-010	J103-05	440	250	NA	125	62.5	10/14/0606:27	NA	AJ14-64	AJ14-59	ICJ028W	10/10/06	10/11/06
CW-01D-010	J103-06	460	500	NA	250	125	10/14/0606:43	NA	AJ14-65	AJ14-59	ICJ028W	10/10/06	10/11/06
CW-03M-010	J103-07	381	250	NA	125	62.5	10/14/0606:59	NA	AJ14-66	AJ14-59	ICJ028W	10/10/06	10/11/06
OW-05S-010	J103-08	144	250	NA	125	62.5	10/14/0607:14	NA	AJ14-67	AJ14-59	ICJ028W	10/10/06	10/11/06
OW-02S-010	J103-09	132	250	NA	125	62.5	10/14/0607:30	NA	AJ14-68	AJ14-59	ICJ028W	10/10/06	10/11/06
MW-90-010	J103-10	130	250	NA	125	62.5	10/14/0607:46	NA	AJ14-69	AJ14-59	ICJ028W	10/10/06	10/11/06
MBLK3W	ICJ032WB	ND	1	NA	0.500	0.250	10/16/0611:44	NA	AJ16-03	AJ16-01	ICJ032W	NA	NA
LCS3W	ICJ032WL	4.63	1	NA	0.500	0.250	10/16/0612:00	NA	AJ16-04	AJ16-01	ICJ032W	NA	NA
LCD3W	ICJ032WC	4.61	1	NA	0.500	0.250	10/16/0612:15	NA	AJ16-05	AJ16-01	ICJ032W	NA	NA
OW-02D-010	J103-01	450	200	NA	100	50.0	10/16/0612:31	NA	AJ16-06	AJ16-01	ICJ032W	10/10/06	10/11/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J103**

METHOD 310.1
ALKALINITY

Ten (10) water samples were received on 10/11/06 for Bicarbonate, Carbonate, and Total Alkalinity analyses by Method 310.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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 J103-01 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample J103-01 was spiked. %Recovery was within QC limit.

6. Sample Analysis

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

METHOD 310.1
BICARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
OW-02D-010	J103-01	67.5	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-04	NA	ALJ011W	10/10/06	10/11/06
OW-02D-010DUP	J103-01D	70.0	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-05	NA	ALJ011W	10/10/06	10/11/06
OW-02M-010	J103-02	60.0	1	NA	5.00	1.00	10/16/0614:03	NA	ALJ011-07	NA	ALJ011W	10/10/06	10/11/06
MW-91-010	J103-03	65.0	1	NA	5.00	1.00	10/16/0614:06	NA	ALJ011-08	NA	ALJ011W	10/10/06	10/11/06
OW-01S-010	J103-04	67.5	1	NA	5.00	1.00	10/16/0614:09	NA	ALJ011-09	NA	ALJ011W	10/10/06	10/11/06
OW-01M-010	J103-05	65.0	1	NA	5.00	1.00	10/16/0614:13	NA	ALJ011-06	NA	ALJ011W	10/10/06	10/11/06
CW-01D-010	J103-06	45.0	1	NA	5.00	1.00	10/16/0614:26	NA	ALJ011-11	NA	ALJ011W	10/10/06	10/11/06
CW-03M-010	J103-07	45.0	1	NA	5.00	1.00	10/16/0614:36	NA	ALJ011-12	NA	ALJ011W	10/10/06	10/11/06
OW-05S-010	J103-08	87.5	1	NA	5.00	1.00	10/16/0614:39	NA	ALJ011-13	NA	ALJ011W	10/10/06	10/11/06
OW-02S-010	J103-09	97.5	1	NA	5.00	1.00	10/16/0614:45	NA	ALJ011-14	NA	ALJ011W	10/10/06	10/11/06
MW-90-010	J103-10	95.5	1	NA	5.00	1.00	10/16/0614:49	NA	ALJ011-15	NA	ALJ011W	10/10/06	10/11/06

METHOD 310.1
CARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
OW-02D-010	J103-01	ND	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-04	NA	ALJ011W	10/10/06	10/11/06
OW-02D-010DUP	J103-01D	ND	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-05	NA	ALJ011W	10/10/06	10/11/06
OW-02M-010	J103-02	ND	1	NA	5.00	1.00	10/16/0614:03	NA	ALJ011-07	NA	ALJ011W	10/10/06	10/11/06
MW-91-010	J103-03	ND	1	NA	5.00	1.00	10/16/0614:06	NA	ALJ011-08	NA	ALJ011W	10/10/06	10/11/06
OW-01S-010	J103-04	ND	1	NA	5.00	1.00	10/16/0614:09	NA	ALJ011-09	NA	ALJ011W	10/10/06	10/11/06
OW-01M-010	J103-05	ND	1	NA	5.00	1.00	10/16/0614:13	NA	ALJ011-06	NA	ALJ011W	10/10/06	10/11/06
CW-01D-010	J103-06	ND	1	NA	5.00	1.00	10/16/0614:26	NA	ALJ011-11	NA	ALJ011W	10/10/06	10/11/06
CW-03M-010	J103-07	ND	1	NA	5.00	1.00	10/16/0614:36	NA	ALJ011-12	NA	ALJ011W	10/10/06	10/11/06
OW-05S-010	J103-08	ND	1	NA	5.00	1.00	10/16/0614:39	NA	ALJ011-13	NA	ALJ011W	10/10/06	10/11/06
OW-02S-010	J103-09	ND	1	NA	5.00	1.00	10/16/0614:45	NA	ALJ011-14	NA	ALJ011W	10/10/06	10/11/06
MW-90-010	J103-10	ND	1	NA	5.00	1.00	10/16/0614:49	NA	ALJ011-15	NA	ALJ011W	10/10/06	10/11/06

METHOD 310.1
TOTAL ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
LCS1W	ALJ011WL	113	1	NA	5.00	1.00	10/16/0613:48	NA	ALJ011-02	NA	ALJ011W	NA	NA
LCD1W	ALJ011WC	115	1	NA	5.00	1.00	10/16/0613:51	NA	ALJ011-03	NA	ALJ011W	NA	NA
OW-02D-010	J103-01	67.5	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-04	NA	ALJ011W	10/10/06	10/11/06
OW-02D-010DUP	J103-01D	70.0	1	NA	5.00	1.00	10/16/0613:54	NA	ALJ011-05	NA	ALJ011W	10/10/06	10/11/06
OW-02D-010MS	J103-01M	135	1	NA	5.00	1.00	10/16/0613:58	NA	ALJ011-06	NA	ALJ011W	10/10/06	10/11/06
OW-02M-010	J103-02	60.0	1	NA	5.00	1.00	10/16/0614:03	NA	ALJ011-07	NA	ALJ011W	10/10/06	10/11/06
MW-91-010	J103-03	65.0	1	NA	5.00	1.00	10/16/0614:06	NA	ALJ011-08	NA	ALJ011W	10/10/06	10/11/06
OW-01S-010	J103-04	67.5	1	NA	5.00	1.00	10/16/0614:09	NA	ALJ011-09	NA	ALJ011W	10/10/06	10/11/06
OW-01M-010	J103-05	65.0	1	NA	5.00	1.00	10/16/0614:13	NA	ALJ011-06	NA	ALJ011W	10/10/06	10/11/06
CW-01D-010	J103-06	45.0	1	NA	5.00	1.00	10/16/0614:26	NA	ALJ011-11	NA	ALJ011W	10/10/06	10/11/06
CW-03M-010	J103-07	45.0	1	NA	5.00	1.00	10/16/0614:36	NA	ALJ011-12	NA	ALJ011W	10/10/06	10/11/06
OW-05S-010	J103-08	87.5	1	NA	5.00	1.00	10/16/0614:39	NA	ALJ011-13	NA	ALJ011W	10/10/06	10/11/06
OW-02S-010	J103-09	97.5	1	NA	5.00	1.00	10/16/0614:45	NA	ALJ011-14	NA	ALJ011W	10/10/06	10/11/06
MW-90-010	J103-10	95.0	1	NA	5.00	1.00	10/16/0614:49	NA	ALJ011-15	NA	ALJ011W	10/10/06	10/11/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J103**

METHOD 350.2
AMMONIA (NH3-N)

Ten (10) water samples were received on 10/11/06 for Ammonia analyses by Method 350.2 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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 J103-10 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample J103-10 was spiked. %Recovery was within QC limit.

6. Sample Analysis

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

METHOD 350.2
AMMONIA (NH3-N)

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

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	NHJ003WB	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-05	NHJ003-01	NHJ003W	NA	10/18/06
LCS1W	NHJ003WL	.994	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-06	NHJ003-01	NHJ003W	NA	10/18/06
LCD1W	NHJ003WC	.968	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-07	NHJ003-01	NHJ003W	NA	10/18/06
OW-02D-010	J103-01	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-08	NHJ003-01	NHJ003W	10/10/06	10/11/06
OW-02M-010	J103-02	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-09	NHJ003-01	NHJ003W	10/10/06	10/11/06
MW-91-010	J103-03	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-10	NHJ003-01	NHJ003W	10/10/06	10/11/06
OW-01S-010	J103-04	ND	1	NA	0.500	0.0300	10/19/0610:34	10/18/0612:00	NHJ003-11	NHJ003-01	NHJ003W	10/10/06	10/11/06
OW-01M-010	J103-05	ND	1	NA	0.500	0.0300	10/19/0610:34	10/18/0612:00	NHJ003-12	NHJ003-01	NHJ003W	10/10/06	10/11/06
CW-01D-010	J103-06	ND	1	NA	0.500	0.0300	10/19/0610:34	10/18/0612:00	NHJ003-15	NHJ003-13	NHJ003W	10/10/06	10/11/06
CW-03M-010	J103-07	ND	1	NA	0.500	0.0300	10/19/0610:34	10/18/0612:00	NHJ003-16	NHJ003-13	NHJ003W	10/10/06	10/11/06
OW-05S-010	J103-08	ND	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-17	NHJ003-13	NHJ003W	10/10/06	10/11/06
OW-02S-010	J103-09	ND	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-18	NHJ003-13	NHJ003W	10/10/06	10/11/06
MW-90-010	J103-10	ND	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-19	NHJ003-13	NHJ003W	10/10/06	10/11/06
MW-90-010DUP	J103-10D	ND	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-20	NHJ003-13	NHJ003W	10/10/06	10/11/06
MW-90-010MS	J103-10M	.895	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-21	NHJ003-13	NHJ003W	10/10/06	10/11/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J103**

METHOD 353.3
NITRATE/NITRITE-N

Ten (10) water samples were received on 10/11/06 for Nitrate/Nitrite-N analyses by Method 353.3 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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 J103-10 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample J103-10 was spiked. %Recovery was within QC limit.

6. Sample Analysis

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

METHOD 353.3
NITRATE/NITRITE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J103

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	NAJ005WB	ND	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-10	NAJ005-07	NAJ005W	NA	NA
LCS1W	NAJ005WL	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-11	NAJ005-07	NAJ005W	NA	NA
LCD1W	NAJ005WC	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-12	NAJ005-07	NAJ005W	NA	NA
OW-02D-010	J103-01T	3.28	5	NA	0.500	0.100	10/18/0614:22	NA	NAJ005-16	NAJ005-07	NAJ005W	10/10/06	10/11/06
OW-02M-010	J103-02T	3.27	5	NA	0.500	0.100	10/18/0614:22	NA	NAJ005-18	NAJ005-07	NAJ005W	10/10/06	10/11/06
MW-91-010	J103-03T	3.25	5	NA	0.500	0.100	10/18/0614:24	NA	NAJ005-22	NAJ005-19	NAJ005W	10/10/06	10/11/06
OW-01S-010	J103-04T	4.02	5	NA	0.500	0.100	10/18/0614:25	NA	NAJ005-24	NAJ005-19	NAJ005W	10/10/06	10/11/06
OW-01M-010	J103-05T	2.98	5	NA	0.500	0.100	10/18/0614:26	NA	NAJ005-26	NAJ005-19	NAJ005W	10/10/06	10/11/06
CW-01D-010	J103-06T	3.78	5	NA	0.500	0.100	10/18/0614:27	NA	NAJ005-28	NAJ005-19	NAJ005W	10/10/06	10/11/06
CW-03M-010	J103-07	.831	1	NA	0.100	0.0200	10/18/0614:27	NA	NAJ005-29	NAJ005-19	NAJ005W	10/10/06	10/11/06
OW-05S-010	J103-08T	5.01	5	NA	0.500	0.100	10/18/0614:29	NA	NAJ005-33	NAJ005-31	NAJ005W	10/10/06	10/11/06
OW-02S-010	J103-09T	4.99	5	NA	0.500	0.100	10/18/0614:30	NA	NAJ005-35	NAJ005-31	NAJ005W	10/10/06	10/11/06
MW-90-010	J103-10T	5.37	10	NA	1.00	0.200	10/18/0614:31	NA	NAJ005-37	NAJ005-31	NAJ005W	10/10/06	10/11/06
MW-90-010DUP	J103-10D	5.23	10	NA	1.00	0.200	10/18/0614:31	NA	NAJ005-38	NAJ005-31	NAJ005W	10/10/06	10/11/06
MW-90-010MS	J103-10M	5.92	10	NA	1.00	0.200	10/18/0614:31	NA	NAJ005-39	NAJ005-31	NAJ005W	10/10/06	10/11/06

06J114

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel: (310) 618 8889 Ext. 119 Fax: (310) 618 0818
Joe Kelbley jkelbley@emaxlabs.com

CHAIN OF CUSTODY RECORD

[2006-CMP-010]

COC Number

TURNAROUND TIME 12 Days

DATE 10/11/06 PAGE 1 OF 1

COMPANY E2

PROJECT NAME PG&E Topock GWM

PHONE (530) 229-3303 FAX (530) 339-3303

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 348319.CM.FW.00 TEAM 1

SAMPLERS (SIGNATURE

	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Alkalinity (310.1)	Anions (300) Chloride,Fluoride,Sulfate	Nitrate/Nitrite (E353.3)	Ammonia (350.2)	Turbidity (180.1)	NUMBER OF CONTAINERS	COMMENTS
1	CW-02M-010	10/11/06	0845	GW	X	X	X	X	X	2	T=2.2°C
2	CW-02D-010	10/11/06	1030	GW	X	X	X	X	X	2	
3	CW-01M-010	10/11/06	1030	GW	X	X	X	X	X	2	
4	CW-04M-010	10/11/06	1235	GW	X	X	X	X	X	2	
5	CW-04D-010	10/11/06	1400	GW	X	X	X	X	X	2	
6	OW-05M-010	10/11/06	1220	GW	X	X	X	X	X	2	
7	OW-05D-010	10/11/06	1440	GW	X	X	X	X	X	2	
8	CW-03S-010	10/11/06	1530	GW	X	X	X	X	X	2	

CHAIN OF CUSTODY SIGNATURE RECORD

	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Allan Eriksen	CH2M HILL	10/11/06 1530
Signature (Received)	Phil Hatcher	EMAX	10/12/06 945
Signature (Relinquished)	Phil Hatcher	EMAX	10-12-06 1400
Signature (Received)	INDRA PATEL	EMAX	10-12-06 1400
Signature (Relinquished)			
Signature (Received)			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J114**

METHOD 180.1
TURBIDITY

Eight (8) water samples were received on 10/12/06 for Turbidity analyses by Method 180.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample

Lab control result was within QC limit.

4. Duplicate

No duplicate sample was designated in this SDG.

5. Matrix Spike

Sample J114-08 was analyzed for duplicate. %RPD was within QC limit.

6. Sample Analysis

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

METHOD 180.1
TURBIDITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I30

SAMPLE ID	EMAX SAMPLE ID	RESULTS (NTU)	DLF	MOIST	RL (NTU)	MDL (NTU)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	TUJ007WB	ND	1	NA	1.00	0.100	10/13/0607:11	NA	TUJ007-03	TUJ007-01	TUJ007W	NA	NA
LCS1W	TUJ007WL	4.82	1	NA	1.00	0.100	10/13/0607:12	NA	TUJ007-04	TUJ007-01	TUJ007W	NA	NA
CW-02M-010	J114-01	ND	1	NA	1.00	0.100	10/13/0607:13	NA	TUJ007-05	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-02D-010	J114-02	ND	1	NA	1.00	0.100	10/13/0607:17	NA	TUJ007-06	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-01M-010	J114-03	2.88	1	NA	1.00	0.100	10/13/0607:21	NA	TUJ007-07	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-04M-010	J114-04	ND	1	NA	1.00	0.100	10/13/0607:22	NA	TUJ007-08	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-04D-010	J114-05	ND	1	NA	1.00	0.100	10/13/0607:26	NA	TUJ007-09	TUJ007-01	TUJ007W	10/11/06	10/12/06
OW-05M-010	J114-06	ND	1	NA	1.00	0.100	10/13/0607:31	NA	TUJ007-10	TUJ007-01	TUJ007W	10/11/06	10/12/06
OW-05D-010	J114-07	ND	1	NA	1.00	0.100	10/13/0607:33	NA	TUJ007-11	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-03D-010	J114-08	ND	1	NA	1.00	0.100	10/13/0607:35	NA	TUJ007-12	TUJ007-01	TUJ007W	10/11/06	10/12/06
CW-03D-010DUP	J114-08D	ND	1	NA	1.00	0.100	10/13/0607:38	NA	TUJ007-15	TUJ007-13	TUJ007W	10/11/06	10/12/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J114**

METHOD 300.0
ANIONS

Eight (8) water samples were received on 10/12/06 for Chloride, Fluoride, and Sulfate analyses by Method 300.0 in accordance with "Method for Determination of Inorganic Anions by Ion Chromatography", EPA 600/84-017.

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limits.

4. Duplicate

Sample J114-08 was analyzed for duplicate. %RPDs were within QC limit.

5. Matrix Spike

Sample J114-08 was spiked. Recoveries were within QC limit.

6. Sample Analysis

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

METHOD 300.0
CHLORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I100

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	ICJ034WB	ND	1	NA	0.500	0.100	10/16/0620:34	NA	AJ16-33	AJ16-25	ICJ034W	NA	NA
LCS1W	ICJ034WL	1.89	1	NA	0.500	0.100	10/16/0620:50	NA	AJ16-34	AJ16-25	ICJ034W	NA	NA
LCD1W	ICJ034WC	1.90	1	NA	0.500	0.100	10/16/0621:05	NA	AJ16-35	AJ16-25	ICJ034W	NA	NA
CW-02M-010	J114-01	1880	500	NA	250	50.0	10/16/0621:21	NA	AJ16-36	AJ16-25	ICJ034W	10/11/06	10/12/06
CW-02D-010	J114-02	3790	2000	NA	1000	200	10/16/0622:09	NA	AJ16-39	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-01M-010	J114-03	1990	250	NA	125	25.0	10/16/0622:24	NA	AJ16-40	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-04M-010	J114-04	1730	250	NA	125	25.0	10/16/0622:40	NA	AJ16-41	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-04D-010	J114-05	3850	500	NA	250	50.0	10/16/0622:56	NA	AJ16-42	AJ16-37	ICJ034W	10/11/06	10/12/06
OW-05M-010	J114-06	2120	250	NA	125	25.0	10/16/0623:12	NA	AJ16-43	AJ16-37	ICJ034W	10/11/06	10/12/06
OW-05D-010	J114-07	1990	250	NA	125	25.0	10/16/0623:27	NA	AJ16-44	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-03D-010	J114-08	4500	2000	NA	1000	200	10/16/0623:43	NA	AJ16-45	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-03D-010DUP	J114-08D	4500	2000	NA	1000	200	10/16/0623:59	NA	AJ16-46	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-03D-010MS	J114-08M	8380	2000	NA	1000	200	10/17/0600:15	NA	AJ16-47	AJ16-37	ICJ034W	10/11/06	10/12/06

METHOD 300.0
FLUORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I100

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	ICJ032WB	ND	1	NA	0.500	0.0500	10/16/0611:44	NA	AJ16-03	AJ16-01	ICJ032W	NA	NA
LCS1W	ICJ032WL	1.97	1	NA	0.500	0.0500	10/16/0612:00	NA	AJ16-04	AJ16-01	ICJ032W	NA	NA
LCD1W	ICJ032WC	1.97	1	NA	0.500	0.0500	10/16/0612:15	NA	AJ16-05	AJ16-01	ICJ032W	NA	NA
CW-02M-010	J114-01	3.14	1	NA	0.500	0.0500	10/16/0613:22	NA	AJ16-09	AJ16-01	ICJ032W	10/11/06	10/12/06
CW-02D-010	J114-02	3.62	1	NA	0.500	0.0500	10/16/0613:38	NA	AJ16-10	AJ16-01	ICJ032W	10/11/06	10/12/06
CW-01M-010	J114-03	2.90	1	NA	0.500	0.0500	10/16/0613:58	NA	AJ16-11	AJ16-01	ICJ032W	10/11/06	10/12/06
CW-04M-010	J114-04	2.00	1	NA	0.500	0.0500	10/16/0615:01	NA	AJ16-15	AJ16-13	ICJ032W	10/11/06	10/12/06
CW-04D-010	J114-05	3.20	1	NA	0.500	0.0500	10/16/0615:17	NA	AJ16-16	AJ16-13	ICJ032W	10/11/06	10/12/06
OW-05M-010	J114-06	3.97	1	NA	0.500	0.0500	10/16/0615:32	NA	AJ16-17	AJ16-13	ICJ032W	10/11/06	10/12/06
OW-05D-010	J114-07	1.80	1	NA	0.500	0.0500	10/16/0615:48	NA	AJ16-18	AJ16-13	ICJ032W	10/11/06	10/12/06
CW-03D-010	J114-08	2.87	1	NA	0.500	0.0500	10/16/0616:04	NA	AJ16-19	AJ16-13	ICJ032W	10/11/06	10/12/06
CW-03D-010DUP	J114-08D	2.89	1	NA	0.500	0.0500	10/16/0616:20	NA	AJ16-20	AJ16-13	ICJ032W	10/11/06	10/12/06
CW-03D-010MS	J114-08M	4.61	1	NA	0.500	0.0500	10/16/0616:35	NA	AJ16-21	AJ16-13	ICJ032W	10/11/06	10/12/06

METHOD 300.0
SULFATE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I100

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	ICJ034WB	ND	1	NA	0.500	0.250	10/16/0620:34	NA	AJ16-33	AJ16-25	ICJ034W	NA	NA
LCS1W	ICJ034WL	4.76	1	NA	0.500	0.250	10/16/0620:50	NA	AJ16-34	AJ16-25	ICJ034W	NA	NA
LCD1W	ICJ034WC	4.78	1	NA	0.500	0.250	10/16/0621:05	NA	AJ16-35	AJ16-25	ICJ034W	NA	NA
CW-02M-010	J114-01	370	500	NA	250	125	10/16/0621:21	NA	AJ16-36	AJ16-25	ICJ034W	10/11/06	10/12/06
CW-01M-010	J114-03	357	250	NA	125	62.5	10/16/0622:24	NA	AJ16-40	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-04M-010	J114-04	282	250	NA	125	62.5	10/16/0622:40	NA	AJ16-41	AJ16-37	ICJ034W	10/11/06	10/12/06
CW-04D-010	J114-05	575	500	NA	250	125	10/16/0622:56	NA	AJ16-42	AJ16-37	ICJ034W	10/11/06	10/12/06
OW-05M-010	J114-06	466	250	NA	125	62.5	10/16/0623:12	NA	AJ16-43	AJ16-37	ICJ034W	10/11/06	10/12/06
OW-05D-010	J114-07	456	250	NA	125	62.5	10/16/0623:27	NA	AJ16-44	AJ16-37	ICJ034W	10/11/06	10/12/06
MBLK2W	ICJ036WB	ND	1	NA	0.500	0.250	10/17/0605:15	NA	AJ16-66	AJ16-61	ICJ036W	NA	NA
LCS2W	ICJ036WL	4.80	1	NA	0.500	0.250	10/17/0605:30	NA	AJ16-67	AJ16-61	ICJ036W	NA	NA
LCD2W	ICJ036WC	4.81	1	NA	0.500	0.250	10/17/0605:46	NA	AJ16-68	AJ16-61	ICJ036W	NA	NA
CW-02D-010	J114-02	546	250	NA	125	62.5	10/17/0612:05	NA	AJ16-92	AJ16-85	ICJ036W	10/11/06	10/12/06
CW-03D-010	J114-08	615	250	NA	125	62.5	10/17/0612:21	NA	AJ16-93	AJ16-85	ICJ036W	10/11/06	10/12/06
CW-03D-010DUP	J114-08D	614	250	NA	125	62.5	10/17/0612:37	NA	AJ16-94	AJ16-85	ICJ036W	10/11/06	10/12/06
CW-03D-010MS	J114-08M	1830	250	NA	125	62.5	10/17/0612:52	NA	AJ16-95	AJ16-85	ICJ036W	10/11/06	10/12/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J114**

METHOD 310.1
ALKALINITY

Eight (8) water samples were received on 10/12/06 for Bicarbonate, Carbonate, and Total Alkalinity analyses by Method 310.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 310.1
BICARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
CW-02M-010	J114-01	49.5	1	NA	5.00	1.00	10/16/0614:53	NA	ALJ011-16	NA	ALJ011W	10/11/06	10/12/06
CW-02D-010	J114-02	32.5	1	NA	5.00	1.00	10/16/0615:07	NA	ALJ011-17	NA	ALJ011W	10/11/06	10/12/06
CW-01M-010	J114-03	50.0	1	NA	5.00	1.00	10/16/0615:11	NA	ALJ011-18	NA	ALJ011W	10/11/06	10/12/06
CW-04M-010	J114-04	55.0	1	NA	5.00	1.00	10/16/0615:14	NA	ALJ011-19	NA	ALJ011W	10/11/06	10/12/06
CW-04D-010	J114-05	31.5	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-20	NA	ALJ011W	10/11/06	10/12/06
OW-05M-010	J114-06	56.5	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-21	NA	ALJ011W	10/11/06	10/12/06
OW-05D-010	J114-07	75.0	1	NA	5.00	1.00	10/16/0615:39	NA	ALJ011-22	NA	ALJ011W	10/11/06	10/12/06
CW-03D-010	J114-08	32.0	1	NA	5.00	1.00	10/16/0615:56	NA	ALJ011-23	NA	ALJ011W	10/11/06	10/12/06

METHOD 310.1
CARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
CW-02M-010	J114-01	ND	1	NA	5.00	1.00	10/16/0614:53	NA	ALJ011-16	NA	ALJ011W	10/11/06	10/12/06
CW-02D-010	J114-02	ND	1	NA	5.00	1.00	10/16/0615:07	NA	ALJ011-17	NA	ALJ011W	10/11/06	10/12/06
CW-01M-010	J114-03	ND	1	NA	5.00	1.00	10/16/0615:11	NA	ALJ011-18	NA	ALJ011W	10/11/06	10/12/06
CW-04M-010	J114-04	ND	1	NA	5.00	1.00	10/16/0615:14	NA	ALJ011-19	NA	ALJ011W	10/11/06	10/12/06
CW-04D-010	J114-05	ND	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-20	NA	ALJ011W	10/11/06	10/12/06
OW-05M-010	J114-06	ND	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-21	NA	ALJ011W	10/11/06	10/12/06
OW-05D-010	J114-07	ND	1	NA	5.00	1.00	10/16/0615:39	NA	ALJ011-22	NA	ALJ011W	10/11/06	10/12/06
CW-03D-010	J114-08	ND	1	NA	5.00	1.00	10/16/0615:56	NA	ALJ011-23	NA	ALJ011W	10/11/06	10/12/06

METHOD 310.1
TOTAL ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

Matrix : WATER
Instrument ID : I53

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	ALJ011WB	ND	1	NA	5.00	1.00	10/16/0613:47	NA	ALJ011-01	NA	ALJ011W	NA	NA
LCS1W	ALJ011WL	113	1	NA	5.00	1.00	10/16/0613:48	NA	ALJ011-02	NA	ALJ011W	NA	NA
LCD1W	ALJ011WC	115	1	NA	5.00	1.00	10/16/0613:51	NA	ALJ011-03	NA	ALJ011W	NA	NA
CW-02M-010	J114-01	49.5	1	NA	5.00	1.00	10/16/0614:53	NA	ALJ011-16	NA	ALJ011W	10/11/06	10/12/06
CW-02D-010	J114-02	32.5	1	NA	5.00	1.00	10/16/0615:07	NA	ALJ011-17	NA	ALJ011W	10/11/06	10/12/06
CW-01M-010	J114-03	50.0	1	NA	5.00	1.00	10/16/0615:11	NA	ALJ011-18	NA	ALJ011W	10/11/06	10/12/06
CW-04M-010	J114-04	55.0	1	NA	5.00	1.00	10/16/0615:14	NA	ALJ011-19	NA	ALJ011W	10/11/06	10/12/06
CW-04D-010	J114-05	31.5	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-20	NA	ALJ011W	10/11/06	10/12/06
OW-05M-010	J114-06	56.5	1	NA	5.00	1.00	10/16/0615:29	NA	ALJ011-21	NA	ALJ011W	10/11/06	10/12/06
OW-05D-010	J114-07	75.0	1	NA	5.00	1.00	10/16/0615:39	NA	ALJ011-22	NA	ALJ011W	10/11/06	10/12/06
CW-03D-010	J114-08	32.0	1	NA	5.00	1.00	10/16/0615:56	NA	ALJ011-23	NA	ALJ011W	10/11/06	10/12/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J114**

METHOD 350.2
AMMONIA (NH3-N)

Eight (8) water samples were received on 10/12/06 for Ammonia analyses by Method 350.2 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 350.2
AMMONIA (NH3-N)

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

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	NHJ003WB	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-05	NHJ003-01	NHJ003W	NA	10/18/06
LCS1W	NHJ003WL	.994	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-06	NHJ003-01	NHJ003W	NA	10/18/06
LCD1W	NHJ003WC	.968	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-07	NHJ003-01	NHJ003W	NA	10/18/06
CW-02M-010	J114-01	ND	1	NA	0.500	0.0300	10/19/0610:35	10/18/0612:00	NHJ003-22	NHJ003-13	NHJ003W	10/11/06	10/12/06
CW-02D-010	J114-02	ND	1	NA	0.500	0.0300	10/19/0610:36	10/18/0612:00	NHJ003-23	NHJ003-13	NHJ003W	10/11/06	10/12/06
CW-01M-010	J114-03	ND	1	NA	0.500	0.0300	10/19/0610:36	10/18/0612:00	NHJ003-24	NHJ003-13	NHJ003W	10/11/06	10/12/06
CW-04M-010	J114-04	ND	1	NA	0.500	0.0300	10/19/0610:36	10/18/0612:00	NHJ003-27	NHJ003-25	NHJ003W	10/11/06	10/12/06
CW-04D-010	J114-05	ND	1	NA	0.500	0.0300	10/19/0610:36	10/18/0612:00	NHJ003-28	NHJ003-25	NHJ003W	10/11/06	10/12/06
OW-05M-010	J114-06	ND	1	NA	0.500	0.0300	10/19/0610:36	10/18/0612:00	NHJ003-29	NHJ003-25	NHJ003W	10/11/06	10/12/06
OW-05D-010	J114-07	ND	1	NA	0.500	0.0300	10/19/0610:37	10/18/0612:00	NHJ003-30	NHJ003-25	NHJ003W	10/11/06	10/12/06
CW-03D-010	J114-08	ND	1	NA	0.500	0.0300	10/19/0610:37	10/18/0612:00	NHJ003-31	NHJ003-25	NHJ003W	10/11/06	10/12/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J114**

METHOD 353.3
NITRATE/NITRITE-N

Eight (8) water samples were received on 10/12/06 for Nitrate/Nitrite-N analyses by Method 353.3 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 353.3
NITRATE/NITRITE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J114

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	NAJ005WB	ND	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-10	NAJ005-07	NAJ005W	NA	NA
LCS1W	NAJ005WL	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-11	NAJ005-07	NAJ005W	NA	NA
LCD1W	NAJ005WC	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-12	NAJ005-07	NAJ005W	NA	NA
CW-02M-010	J114-01T	1.01	2	NA	0.200	0.0400	10/18/0614:33	NA	NAJ005-41	NAJ005-31	NAJ005W	10/11/06	10/12/06
CW-02D-010	J114-02T	1.29	2	NA	0.200	0.0400	10/18/0614:34	NA	NAJ005-45	NAJ005-41	NAJ005W	10/11/06	10/12/06
CW-01M-010	J114-03T	1.44	2	NA	0.200	0.0400	10/18/0614:35	NA	NAJ005-47	NAJ005-43	NAJ005W	10/11/06	10/12/06
CW-04M-010	J114-04T	1.96	2	NA	0.200	0.0400	10/18/0614:35	NA	NAJ005-49	NAJ005-43	NAJ005W	10/11/06	10/12/06
CW-04D-010	J114-05	.469	1	NA	0.100	0.0200	10/18/0614:36	NA	NAJ005-50	NAJ005-43	NAJ005W	10/11/06	10/12/06
OW-05M-010	J114-06T	3.15	5	NA	0.500	0.100	10/18/0614:36	NA	NAJ005-52	NAJ005-43	NAJ005W	10/11/06	10/12/06
OW-05D-010	J114-07T	3.30	5	NA	0.500	0.100	10/18/0614:38	NA	NAJ005-54	NAJ005-43	NAJ005W	10/11/06	10/12/06
CW-03D-010	J114-08	.329	1	NA	0.100	0.0200	10/18/0614:40	NA	NAJ005-57	NAJ005-55	NAJ005W	10/11/06	10/12/06

06J127A

EMAX Laboratories, Inc.
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CHAIN OF CUSTODY RECORD

~~[2006-GMP-110-Q3]~~ 2006-GMP-010 per shawn

COC Number

TURNAROUND TIME 12 Days

DATE 10/12/06 PAGE ___ OF ___

COMPANY	E2
PROJECT NAME	PG&E Topock GWM
PHONE	(530) 229-3303 FAX (530) 339-3303
ADDRESS	155 Grand Ave Ste 1000, Oakland, CA 94612
P.O. NUMBER	338234.GM.02.00 TEAM 1
SAMPLERS (SIGNATURE	Matt Rijn

SAMPLE I.D.	DATE	TIME	DESCRIPTION	Diss Metals (6010B) Field Filtered Dissolved Ca,Mg,K,Na,B	Diss Metals (6010B) Field Filtered Title 22	Diss Metals (6010B) Field Filtered Title 22,Ca,Mg,K,Na,B	Diss Metals (7470A) Field Filtered	Alkalinity (310.1)	Anions (300) Br,Cl,SO4,NO3N	E180.1	E353.3	E350.2	Rl 10/17/06					NUMBER OF CONTAINERS	COMMENTS
3 GW-01D-010	10/12/06	0950	GW					X	X	X	X	X							

CHAIN OF CUSTODY SIGNATURE RECORD

	Signature	Printed Name	Company/ Agency	Date/ Time
Relinquished	Matt Rijn	Matt Rijnen	E2	10/12/06 1540
Received				
Relinquished	Margaret	Margaret	T-L-E	10/13/06 13:05
Received	Phil Hatcher	Phil Hatcher	EMAX	10/13/06 1305
Relinquished	Phil Hatcher	Phil Hatcher	EMAX	10/13/06 1350
Received		alcantara	emax	10/13/06 1350

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ ___ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

T = 2.9 °C

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 6020A
DISSOLVED METALS BY ICP-MS

One (1) water sample was received on 10/13/06 for Dissolved Metals analysis by Method 6020A accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

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. Serial Dilution / Post-Analytical Spike

Sample J826-01 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

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

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Client	: CH2M HILL	Date Collected:	10/12/06
Project	: PG&E'S TOPOCK GAS COMPRESSOR STAT	Date Received:	10/13/06
SDG NO.	: 06J127A	Date Extracted:	10/18/06 13:10
Sample ID:	OW-01D-010	Date Analyzed:	10/19/06 06:32
Lab Samp ID:	J127-01	Dilution Factor:	1
Lab File ID:	98J18070	Matrix :	WATER
Ext Btch ID:	IMJ013W	% Moisture :	NA
Calib. Ref.:	98J18061	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.05000	0.025000
Antimony	ND	0.00200	0.000500
Arsenic	ND	0.00500	0.002500
Barium	ND	0.30000	0.150000
Beryllium	ND	0.00100	0.000500
Boron^	1.30	.10	.05
Cadmium	ND	0.00100	0.000500
Calcium	120	1.00	0.0500
Chromium	0.00126	0.00100	0.000500
Cobalt	ND	0.00100	0.000500
Copper	0.00132	0.00100	0.000500
Iron	ND	0.300	0.1500
Lead	ND	0.00100	0.000500
Magnesium	9.61	1.00	0.0500
Manganese	ND	0.50000	0.250000
Molybdenum	0.0166	0.00200	0.00100
Nickel	ND	0.02000	0.010000
Potassium	10.3	1.00	0.0500
Selenium	ND	0.00500	0.002500
Silver	ND	0.00100	0.000500
Sodium^	1460	10	5
Thallium	ND	0.00100	0.000500
Vanadium	0.00595	0.00100	0.000500
Zinc	ND	0.0200	0.01000

^ Analyzed at DF10 on 10/19/06 01:34 | File ID 98J18035

Revised Report

7003

10/13/06 ra

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 7470A
DISSOLVED MERCURY BY COLD VAPOR

One (1) water sample was received on 10/13/06 for Dissolved Mercury analysis by Method 7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

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. Serial Dilution / Post-Analytical Spike

Sample J137-01 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

6. Sample Analysis

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

METHOD 7470A
DISSOLVED MERCURY BY COLD VAPOR

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : TI047

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	HGJ032WB	ND	1	NA	0.000200	0.000100	10/20/0611:10	10/19/0616:30	M47J019010	M47J019008	HGJ032W	NA	10/19/06
LCS1W	HGJ032WL	0.00496	1	NA	0.000200	0.000100	10/20/0611:12	10/19/0616:30	M47J019011	M47J019008	HGJ032W	NA	10/19/06
LCD1W	HGJ032WC	0.00503	1	NA	0.000200	0.000100	10/20/0611:14	10/19/0616:30	M47J019012	M47J019008	HGJ032W	NA	10/19/06
OW-01D-010	J127-01	ND	1	NA	0.000200	0.000100	10/20/0611:39	10/19/0616:30	M47J019024	M47J019020	HGJ032W	10/12/06	10/13/06

7972
4

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 180.1
TURBIDITY

One (1) water sample was received on 10/13/06 for Turbidity analyses by Method 180.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample

Lab control result was within QC limit.

4. Duplicate

No duplicate sample was designated in this SDG.

5. Matrix Spike

Sample J127-01 was analyzed for duplicate. %RPD was within QC limit.

6. Sample Analysis

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

METHOD 180.1
TURBIDITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I30

SAMPLE ID	EMAX SAMPLE ID	RESULTS (NTU)	DLF	MOIST	RL (NTU)	MDL (NTU)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	TUJ008WB	ND	1	NA	1.00	0.100	10/13/0618:55	NA	TUJ008-03	TUJ008-01	TUJ008W	NA	NA
LCS1W	TUJ008WL	5.14	1	NA	1.00	0.100	10/13/0618:57	NA	TUJ008-04	TUJ008-01	TUJ008W	NA	NA
OW-01D-010	J127-01	ND	1	NA	1.00	0.100	10/13/0618:57	NA	TUJ008-05	TUJ008-01	TUJ008W	10/12/06	10/13/06
OW-01D-010DUP	J127-01D	ND	1	NA	1.00	0.100	10/13/0618:57	NA	TUJ008-06	TUJ008-01	TUJ008W	10/12/06	10/13/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 300.0
ANIONS

One (1) water sample was received on 10/13/06 for Bromide, Chloride, Nitrate-N, and Sulfate analyses by Method 300.0 in accordance with "Method for Determination of Inorganic Anions by Ion Chromatography", EPA 600/84-017.

1. Holding Time

Analyses met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limits.

4. Duplicate

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 300.0
BROMIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I100

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	ICJ024WB	ND	1	NA	0.500	0.100	10/13/0612:58	NA	AJ14-03	AJ14-01	ICJ024W	NA	NA
LCS1W	ICJ024WL	4.73	1	NA	0.500	0.100	10/13/0613:14	NA	AJ14-04	AJ14-01	ICJ024W	NA	NA
LCD1W	ICJ024WC	4.74	1	NA	0.500	0.100	10/13/0613:30	NA	AJ14-05	AJ14-01	ICJ024W	NA	NA
OW-01D-010	J127-01	.838	1	NA	0.500	0.100	10/13/0616:26	NA	AJ14-16	AJ14-13	ICJ024W	10/12/06	10/13/06

METHOD 300.0
CHLORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I100

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	ICJ026WB	ND	1	NA	0.500	0.100	10/13/0621:31	NA	AJ14-30	AJ14-25	ICJ026W	NA	NA
LCS1W	ICJ026WL	1.89	1	NA	0.500	0.100	10/13/0621:46	NA	AJ14-31	AJ14-25	ICJ026W	NA	NA
LCD1W	ICJ026WC	1.90	1	NA	0.500	0.100	10/13/0622:02	NA	AJ14-32	AJ14-25	ICJ026W	NA	NA
OW-01D-010	J127-01	2010	200	NA	100	20.0	10/14/0603:49	NA	AJ14-54	AJ14-49	ICJ026W	10/12/06	10/13/06

METHOD 300.0
NITRATE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I100

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	ICJ024WB	ND	1	NA	0.500	0.0500	10/13/0612:58	NA	AJ14-03	AJ14-01	ICJ024W	NA	NA
LCS1W	ICJ024WL	1.92	1	NA	0.500	0.0500	10/13/0613:14	NA	AJ14-04	AJ14-01	ICJ024W	NA	NA
LCD1W	ICJ024WC	1.92	1	NA	0.500	0.0500	10/13/0613:30	NA	AJ14-05	AJ14-01	ICJ024W	NA	NA
OW-01D-010	J127-01	2.19	1	NA	0.500	0.0500	10/13/0616:26	NA	AJ14-16	AJ14-13	ICJ024W	10/12/06	10/13/06

METHOD 300.0
SULFATE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I100

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	ICJ026WB	ND	1	NA	0.500	0.250	10/13/0621:31	NA	AJ14-30	AJ14-25	ICJ026W	NA	NA
LCS1W	ICJ026WL	4.64	1	NA	0.500	0.250	10/13/0621:46	NA	AJ14-31	AJ14-25	ICJ026W	NA	NA
LCD1W	ICJ026WC	4.65	1	NA	0.500	0.250	10/13/0622:02	NA	AJ14-32	AJ14-25	ICJ026W	NA	NA
OW-01D-010	J127-01	445	200	NA	100	50.0	10/14/0603:49	NA	AJ14-54	AJ14-49	ICJ026W	10/12/06	10/13/06

CASE NARRATIVE

CLIENT: CH2M HILL

PROJECT: PG&E'S TOPOCK GAS COMPRESSOR STAT

SDG: 06J127A

METHOD 300.0
ANIONS

One (1) water sample was received on 10/13/06 for Bromide, Chloride, Fluoride, Nitrate-N, and Sulfate analyses by Method 300.0 in accordance with "Method for Determination of Inorganic Anions by Ion Chromatography", EPA 600/84-017.

1. **Holding Time**

   Analyses met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

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

   Lab control results were within QC limits.

4. **Duplicate**

   No duplicate sample was designated in this SDG.

5. **Matrix Spike**

   No MS sample was designated in this SDG.

6. **Sample Analysis**

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

Revised Report

8008

to m/rlab

METHOD 300.0
FLUORIDE

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I100

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	ICJ024WB	ND	1	NA	0.500	0.0500	10/13/0612:58	NA	AJ14-03	AJ14-01	ICJ024W	NA	NA
LCS1W	ICJ024WL	1.91	1	NA	0.500	0.0500	10/13/0613:14	NA	AJ14-04	AJ14-01	ICJ024W	NA	NA
LCD1W	ICJ024WC	1.92	1	NA	0.500	0.0500	10/13/0613:30	NA	AJ14-05	AJ14-01	ICJ024W	NA	NA
OW-01D-010	J127-01	2.62	1	NA	0.500	0.0500	10/13/0616:26	NA	AJ14-16	AJ14-13	ICJ024W	10/12/06	10/13/06

Revised Report

80114

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 310.1
ALKALINITY

One (1) water sample was received on 10/13/06 for Bicarbonate, Carbonate, and Total Alkalinity analyses by Method 310.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 310.1
BICARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I53

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	ALJ010WB	ND	1	NA	5.00	1.00	10/16/0610:22	NA	ALJ010-01	NA	ALJ010W	NA	NA
OW-01D-010	J127-01	57.5	1	NA	5.00	1.00	10/16/0611:00	NA	ALJ010-10	NA	ALJ010W	10/12/06	10/13/06

METHOD 310.1
CARBONATE ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I53

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	ALJ010WB	ND	1	NA	5.00	1.00	10/16/0610:22	NA	ALJ010-01	NA	ALJ010W	NA	NA
OW-01D-010	J127-01	ND	1	NA	5.00	1.00	10/16/0611:00	NA	ALJ010-10	NA	ALJ010W	10/12/06	10/13/06

METHOD 310.1
TOTAL ALKALINITY

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

Matrix : WATER
Instrument ID : I53

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	ALJ010WB	ND	1	NA	5.00	1.00	10/16/0610:22	NA	ALJ010-01	NA	ALJ010W	NA	NA
LCS1W	ALJ010WL	125	1	NA	5.00	1.00	10/16/0610:23	NA	ALJ010-02	NA	ALJ010W	NA	NA
LCD1W	ALJ010WC	128	1	NA	5.00	1.00	10/16/0610:24	NA	ALJ010-03	NA	ALJ010W	NA	NA
OW-01D-010	J127-01	57.5	1	NA	5.00	1.00	10/16/0611:00	NA	ALJ010-10	NA	ALJ010W	10/12/06	10/13/06

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 350.2
AMMONIA (NH3-N)

One (1) water sample was received on 10/13/06 for Ammonia analyses by Method 350.2 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 350.2
AMMONIA (NH3-N)

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

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	Receive DATETIM
MBLK1W	NHJ003WB	ND	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-05	NHJ003-01	NHJ003W	NA	10/18/0
LCS1W	NHJ003WL	.994	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-06	NHJ003-01	NHJ003W	NA	10/18/0
LCD1W	NHJ003WC	.968	1	NA	0.500	0.0300	10/19/0610:33	10/18/0612:00	NHJ003-07	NHJ003-01	NHJ003W	NA	10/18/0
OW-01D-010	J127-01	ND	1	NA	0.500	0.0300	10/19/0610:37	10/18/0612:00	NHJ003-32	NHJ003-25	NHJ003W	10/12/06	10/13/0

CASE NARRATIVE

CLIENT: **CH2M HILL**

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

SDG: **06J127A**

METHOD 353.3
NITRATE/NITRITE-N

One (1) water sample was received on 10/13/06 for Nitrate/Nitrite-N analyses by Method 353.3 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. Holding Time

Analyses 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

No duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

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

METHOD 353.3
NITRATE/NITRITE-N

Client : CH2M HILL
Project : PG&E'S TOPOCK GAS COMPRESSOR STAT
Batch No. : 06J127A

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	NAJ005WB	ND	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-10	NAJ005-07	NAJ005W	NA	NA
LCS1W	NAJ005WL	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-11	NAJ005-07	NAJ005W	NA	NA
LCD1W	NAJ005WC	.520	1	NA	0.100	0.0200	10/18/0614:20	NA	NAJ005-12	NAJ005-07	NAJ005W	NA	NA
OW-01D-010	J127-01T	2.79	5	NA	0.500	0.100	10/18/0614:41	NA	NAJ005-59	NAJ005-55	NAJ005W	10/12/06	10/13/06

Appendix B
Field Data Sheets, Fourth Quarter 2006

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions windy, sunny, hot

Sampling Event 2006-CMP-010
Date 10/10/06
Page 1 of 1

Well/Sample Number CW-01D-010 **QC Sample ID** NA QC Sample Time

Purge Start Time 1358 Purge Method grundfos Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 98 Purge Rate (gpm)/(mLpm) ~ 3 2 1/2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	1403	12.5	8.11	6.68	8.91	6.01	30.10	0.36	4.20	47	clear
—	1408	25	8.24	6.64	4.91	6.43	30.46	0.36	4.18	39	clear
—	1413	37.5	8.24	6.63	2.50	6.44	30.48	0.36	4.18	35	clear
—	1418	50	8.25	6.64	1.93	6.43	30.48	0.36	4.18	33	clear
—	1423	62.5	8.25	6.64	1.57	6.43	30.51	0.36	4.18	32	clear
—	1428	75	8.25	6.64	1.43	6.43	30.51	0.36	4.19	31	clear
—	1433	87.5	8.25	6.65	1.32	6.41	30.55	0.36	4.19	30	clear
—	1438	100	8.25	6.65	1.24	6.39	30.57	0.36	4.19	29	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (6/6/2006)			8.2	8300	2.3	6.28	31.42	0.46		27	
Are measurements consistent with previous?			Y	N	Y	Y	NA	Y		Y	

Sample Time 1440 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: could not take a WL during purging b/c water was dripping down well & not enough space in well w/ transducer and pump.

Initial Depth to Water (ft BTOC): 109.09
Field measured confirmation of Well Depth (ft btoc): not a cluster
WD (Well Depth - from database) ft btoc (300.2)
SWH (Standing Water Height) = WD-Initial Depth 191.11
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 32.49
Three Casing Volumes = 97.46

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal N/A
Time	Initial DTW	Time	Final DTW	Time of Reinstallation N/A
1357	109.09	N/A	N/A	
Comments:				

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

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions windy, sunny, warm

Sampling Event 2006-CMP-010
Date 10/10/06 & 10/11/06
Page 1 of 1

Well/Sample Number CW-01M-010 **QC Sample ID** NA QC Sample Time N/A

Purge Start Time 0957 Purge Method grundfos Ded. Pump ~~Y~~ N

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 41 Purge Rate (gpm)/(mLpm) 1 1/2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
109.42	0959	3	7.07 ~~8.02~~	8.78 ~~0.002~~	66.5	5.74 ~~7.42~~	31.96 ~~32.30~~	0.48 ~~0.00~~	5.7 ~~0.00~~	166 ~~198~~	slightly brown, cloudy
109.40	1003	9	7.47	9.01	34.4	3.37	31.11	0.50	5.9	154	cloudy
109.40	1007	15	7.62	9.25	16.0	3.47	31.11	0.51	6.0	138	clear
109.40	1011	21	7.73	9.21	9.40	3.83	30.75	0.51	6.0	120	clear
109.42	1015	27	7.81	9.07	3.72	3.42	31.20	0.50	5.9	103	clear
109.39	1019	33	7.85	8.78	1.88	2.21	31.34	0.48	5.7	80	clear
109.38	1021	36	7.87	8.67	1.79	2.07	31.29	0.48	5.6	69	clear
109.38	1023	39	7.89	8.61	2.72	2.00	31.24	0.47	5.5	58	clear
109.41	1025	42	7.94	8.45	1.83	1.94	31.23	0.47	5.5	44	clear
109.40	1027	45	7.96	8.39	1.10	1.91	31.28	0.46	5.4	31	clear
109.40	1028	46.5	7.97	8.35	1.42	1.91	31.31	0.46	5.4	25	clear
109.41	1029	48.0	7.99	8.34	0.99	1.89	31.27	0.46	5.4	19	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y		Y	
Previous Field measurement (5/2/2006)			7.67	6260	3.6	2.5	30.2	0.3		-15	
Are measurements consistent with previous?			Y	N	Y	Y	NA	N		N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 109.21 109.31 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

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

WD (Well Depth - from database) ft btoc (190)

SWH (Standing Water Height) = WD-Initial Depth 80.79 80.69

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

One Casing Volume = D*SWH 13.73 13.72

Three Casing Volumes = 41.2 41.15

Initial DTW / Before Removal		If Transducer		10/11/06
		Approx. 5 min After Reinstallation		Time of Removal ~~N/A~~ 0817
Time	Initial DTW	Time	Final DTW	Time of Reinstallation ~~N/A~~ 1048
JSS 1306	109.21	~~N/A~~ 1053	~~N/A~~ 109.34	
Comments:		KS	KS	
10/11/06 0816	109.31			

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 348319.CM.FW.00
Field Team 1 Field Conditions

Sampling Event 2006-CMP-010
Date 10/11/06
Page 1 of 1

Well/Sample Number CW-02D-010 **QC Sample ID** NA QC Sample Time —

Purge Start Time 0915 Purge Method Grundfos 2" Ded. Pump —

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 134 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
93.30	0925	20	8.22	15.6	1.10	3.13	29.45	0.92	9.7	-19	
93.30	0935	40	8.29	17.2	5.85	3.24	29.92	0.89	9.5	16	
93.15	0945	60	8.29	15.6	4.03	3.22	30.20	0.91	9.6	28	
93.10	0955	80	8.30	15.6	2.42	3.26	30.43	0.91	9.6	33	
93.00	1005	100	8.30	15.6	2.39	3.24	30.48	0.91	9.6	35	
92.95	1015	120	8.30	15.5	1.34	3.20	30.43	0.91	9.7	36	~~DO~~ WL m seems
92.90	1025	140	8.30	15.5	1.08	3.20	30.41	0.91	9.7	35	to be off
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?							NA				
Previous Field measurement (6/7/2006)			8.32	15700	2.7	3.82	31.5	0.92		-26	
Are measurements consistent with previous?							NA				

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

Comments: ____

Initial Depth to Water (ft BTOC): 93.41

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

WD (Well Depth - from database) ft btoc (355)

SWH (Standing Water Height) = WD-Initial Depth 261.89

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

One Casing Volume = D*SWH 44.52

Three Casing Volumes = 133.56

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-018

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	0904
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1033
0903	93.41	1038	92.78		
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 348319.CM.FW.00
Field Team 1 Field Conditions Sunny 80°

Sampling Event 2006-CMP-010
Date 10/11/06
Page 1 of 1

Well/Sample Number CW-02M-010 **QC Sample ID** NA QC Sample Time —
Purge Start Time 0813 (A3) Purge Method Grundfos 2" Ded. Pump —
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 56 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
93.24	0817	8	7.05	10.5	4.73	3.54	22.95	0.55	6.2	165	
93.24	0821	16	7.48	9.3	3.33	3.45	25.37	0.52	5.8	155	
93.23	0825	24	7.77	6.37	1.73	3.35	27.28	0.34	4.00	147	
93.23	0829	32	7.92	6.30	1.34	3.30	27.83	0.34	3.97	143	
93.23	0833	40	8.02	6.29	1.02	3.22	28.15	0.34	3.96	138	
93.23	0837	48	8.08	6.29	0.93	3.17	28.20	0.34	3.96	135	
93.23	0841	56	8.12	6.27	0.86	3.13	28.34	0.34	3.95	133	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (5/2/2006)			7.62	6360	1.96	2.24	31.4	0.3		1	
Are measurements consistent with previous?			N	Y	X	N	NA	Y	—	N	

Sample Time 0845 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 93.10
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (202)
SWH (Standing Water Height) = WD-Initial Depth 108.9
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-2005-01B

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	7:58
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	0855
7:57	93.10	0900	93.13		
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 348319.CM.FW.00
Field Team 1 Field Conditions Sunny, Breezy, 95°F

Sampling Event 2006-CMP-010
Date 10/11/06
Page 1 of _____

Well/Sample Number CW-03D-010 **QC Sample ID** NA QC Sample Time NA
Purge Start Time 1438 Purge Method Mobile Redi-Flo Ded. Pump ~~Redi-Flo~~
Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 133.8 Purge Rate (gpm)/(mLpm) 3 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
77.78	1440	0	8.07	16.17	.04	5.61	30.49	0.98	10	-330	& Strong ODOR
77.75	1446	20	8.11	16.15	9.8	2.01	30.12	0.97	10	-331	
77.77	1454	40	7.87	16.4	8.9	1.32	30.76	0.98	10	-312	
77.77	1500	60	7.65	18.0	6.5	1.17	31.00	1.07	11	-248	
77.77	1508	80	7.62	18.4	2.6	1.07	31.03	1.09	11	-232	Low odor
77.77	1514	100	7.61	18.0	2.3	1.03	31.01	1.07	11	-223	Low odor
77.77	1522	120	7.60	17.6	1.4	1.00	30.97	1.04	11	-215	
77.77	1527	135	7.60	17.3	1.4	0.98	30.96	1.03	11	-209	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			✓	✓	✓	✓	NA	✓	✓	✓	
Previous Field measurement (6/7/2006)			7.8	14100	1.35	1.58	30.96	0.82		-136	
Are measurements consistent with previous?			N	N	Y	N	NA		✓	N	

Sample Time 1530 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 77.6
Field measured confirmation of Well Depth (ft btoc): _____
WD (Well Depth - from database) ft btoc (340)
SWH (Standing Water Height) = WD-Initial Depth 262.4
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 44.6
Three Casing Volumes = 133.8

Measure Point: (Well TOC) Steel Casing

Page 2005-C3
WATER LEVEL METER SERIAL NUMBER: _____

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

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

Odor: none, sulphur, (organic), other

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

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions Sunny 90°

Sampling Event 2006-CMP-010
Date 10/10/06
Page 1 of 1

Well/Sample Number CW-03M-010 **QC Sample ID** NA QC Sample Time —
Purge Start Time 1445 Purge Method Grundfos 2" Ded. Pump —
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. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
77.86	1450	10	8.12	9.57	5.76	1.43	31.59	0.54	6.3	116	
77.86	1455	20	8.15	9.78	3.49	1.20	31.73	0.54	6.3	114	
77.86	1500	30	8.18	9.39	4.14	1.17	31.95	0.52	6.1	112	
77.86	1505	40	8.20	9.24	4.03	1.09	31.52	0.51	6.0	110	
77.86	1510	50	8.21	9.16	2.73	1.10	31.93	0.51	6.0	108	
77.86	1515	60	8.21	9.08	2.97	1.07	31.86	0.51	5.9	106	
77.86	1520	70	8.22	9.10	1.79	1.10	31.98	0.51	5.9	105	
77.86	1525	80	8.22	9.05	1.13	1.11	31.98	0.51	5.9	104	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (6/7/2006)			8.02	8450	3.33	1.94	31	0.47		72	
Are measurements consistent with previous?			Y	Y	N	Y	NA	Y	—	N	

Sample Time 1530 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____
Comments: ____

Initial Depth to Water (ft BTOC): 77.73
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (222)
SWH (Standing Water Height) = WD-Initial Depth 144.27
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 24.52
Three Casing Volumes = 73.57

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 11081

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1430
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1537
1430	77.73	15:37 15:42	77.71	
Comments:		AC		

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 348319.CM.FW.00
Field Team 1 Field Conditions Sunny 80°

Sampling Event 2006-CMP-010
Date 10/11/06
Page 1 of 1

Well/Sample Number CW-04D-010 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1252 Purge Method Grundfos 2" Ded. Pump —

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 123 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
62.05	1259	14	7.94	14.7	0.96	2.84	29.77	0.85	9.1	63	
62.10	1306	28	7.91	14.9	0.95	2.60	30.24	0.87	9.3	53	
62.10	1313	42	8.13	17.6	0.87	2.55	30.72	1.05	11.0	42	
62.10	1320	56	8.15	18.4	0.86	2.45	30.83	1.12	11.8	26	
62.10	1327	70	8.17	19.3	0.61	2.38	30.98	1.12	12.0	-32	
62.10	1334	84	8.17	17.1	0.78	2.38	31.06	1.01	10.5	-59	
62.10	1341	98	8.17	17.4	0.62	2.36	31.07	1.01	10.5	-67	
62.10	1348	112	8.17	17.1	0.68	2.35	31.13	1.01	10.6	-74	
62.10	1355	126	8.17	17.0	0.62	2.32	31.16	1.00	10.5	-77	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (6/6/2006)			7.71	18600	0.92	2.38	32.15	1.1		47	
Are measurements consistent with previous?			N	N	N	Y	NA	Y	—	N	

Sample Time 1400 Sample Location: pump tubing X well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): 61.75

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

WD (Well Depth - from database) ft btoc (303)

SWH (Standing Water Height) = WD-Initial Depth 241.25

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

One Casing Volume = D*SWH 41.01

Three Casing Volumes = 123.03

Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: P63E2005-1B

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1243
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1406
1242	61.75	1411	61.76	

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 348319.CM.FW.00
Field Team 1 Field Conditions Sunny 90°

Sampling Event 2006-CMP-010
Date 10/11/06
Page 1 of 1

Well/Sample Number CW-04M-010 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1156 Purge Method Grundfos Ded. Pump —

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

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
62.08	1159	6	7.68	7.37	3.68	3.43	31.39	0.38	4.34	67	
62.09	1202	12	7.75	6.24	3.45	3.31	30.27	0.33	3.90	55	
62.10	1205	18	7.93	5.98	2.15	3.22	30.18	0.32	3.75	51	
62.10	1208	24	8.02	5.87	0.96	3.14	30.18	0.31	3.69	47	
62.10	1211	30	8.06	5.80	0.80	3.08	30.16	0.31	3.65	46	
62.10	1214	36	8.07	5.77	0.61	3.04	30.15	0.31	3.63	46	
62.10	1217	42	8.08	5.76	0.79	3.02	30.17	0.31	3.64	45	
62.10	1220	48	8.08	5.78	0.72	3.03	30.15	0.30	3.62	44	
62.10	1230	58	8.08	5.77	0.89	2.94	30.20	0.30	3.60	43	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	Y	Y	
Previous Field measurement (6/6/2006)			7.97	5920	1.19	2.98	30.52	0.32		39	
Are measurements consistent with previous?			Y	Y	Y	Y	NA	Y	—	Y	

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

Comments: _____

Initial Depth to Water (ft BTOC): 61.80

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

WD (Well Depth - from database) ft btoc (169.8)

SWH (Standing Water Height) = WD-Initial Depth 108

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

One Casing Volume = D*SWH 18.36

Three Casing Volumes = 55.08

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

Initial DTW / Before Removal		If Transducer			
		Approx. 5 min After Reinstallation		Time of Removal	1145
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1240
1143	61.80	1245	61.75		
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: 348319.CM.FW.00
Field Team: 1
Field Conditions: clear/sunny

Sampling Event: 2006-CMP-010
Date: 10-12-06
Page: ____ of ____

Well/Sample Number: OW-01D-010
QC Sample ID: NA
QC Sample Time: ____

Purge Start Time: 0849
Purge Method: 2" redy flow Ded. Pump: ____
Flow Cell (Y) N
Min. Purge Volume (gal)/(L): 93.78 Purge Rate (gpm)/(mLpm): 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
96.55	0855	12	7.26	13.1	3.60	1.38	27.59	0.75	8	80	CLEAR/NO ODER
96.68	0901	24	7.41	12.2	2.84	2.17	29.81	0.70	8	83	"
96.76	0907	36	7.55	12.1	127.0	2.90	31.03	0.69	8	81	CLOUDY
96.72	0913	48	7.77	12.1	9.99	4.25	30.96	0.69	8	76	" TURB. BATT MIGHT BE LOW
96.74	0919	60	7.92	12.3	= 7	4.61	31.18	0.71	8	74	CLOUDY
96.76	0925	72	8.02	12.5	9.99	4.93	31.05	0.72	8	72	"
96.78	0931	84	8.06	12.6	9.99	5.12	31.02	0.72	8	70	"
96.78	0937	96	8.08	12.8	9.99	5.21	30.97	0.72	8	70	WATER CLEAR
96.82	0946	1006	8.17	12.7	4.4	5.14	31.12	0.72	8	70	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	TURB-METER WAS NOT WORKING BECAUSE IT NEEDED NEW BATTERIES
Did Parameters Stablize prior to sampling?							NA				0945 BATTERIES R
Previous Field measurement (8/31/2006)			7.64	7930	7.24	6.45	30.4	0.43		73	
Are measurements consistent with previous?							NA				

Sample Time: 0950 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 93.10
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (277)
SWH (Standing Water Height) = WD-Initial Depth 183.9
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 31.26
Three Casing Volumes = 93.78

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 0827
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1005
0825	93.10	~~1005~~ 1010	93.51	
Comments:				

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

Odor: none, sulphur, organic, other

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

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions Wind 90°

Sampling Event 2006-CMP-010
Date 10/10/06
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Well/Sample Number OW-01M-010 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1314 Purge Method Grundfos Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 47 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
93.73	1320	10	8.17	11.8	170	6.67	32.25	0.68	8	109	
93.73	1323	16	8.19	12.1	100	6.75	32.14	0.69	8	108	
93.73	1326	22	8.20	12.3	22.4	6.79	32.05	0.70	8	107	
93.73	1329	28	8.21	12.2	11.0	6.81	31.99	0.70	8	106	
93.73	1332	34	8.21	12.2	6.27	6.79	31.90	0.69	8	106	
93.73	1335	40	8.21	11.9	10.2	6.44	31.81	0.68	8	106	
93.73	1338	46	8.21	11.8	7.04	6.42	31.75	0.67	8	106	
93.73	1341	52	8.22	11.7	2.97	6.42	31.67	0.67	8	106	
93.73	1344	58	8.22	11.7	2.42	6.41	31.67	0.66	8	106	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			X	X	X	X	NA	—	—	Y	
Previous Field measurement (8/31/2006)			7.38	8280	1.7	6.79	30.27	0.46		149	
Are measurements consistent with previous?			X	X	Y	Y	NA	N		NO	

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

Comments: ____

Initial Depth to Water (ft BTOC): 93.56

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

WD (Well Depth - from database) ft btoc (185.8)

SWH (Standing Water Height) = WD-Initial Depth 92.24

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

One Casing Volume = D*SWH 15.68

Three Casing Volumes = 47.04

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	1255
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1412
1255	93.56	1417	93.65		

Comments:

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

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions Windy, sunny, Warm

Sampling Event 2006-CMP-010
Date 10/10/06
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Well/Sample Number OW-01S-010 **QC Sample ID** NA QC Sample Time N/A

Purge Start Time 1154 Purge Method Waterra Ded. Pump Y

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 10.14 Purge Rate (gpm)/(mLpm) 1/2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	1155	0.5	8.29	2.02	6.25	8.81	28.85	0.09	1.12	131	clear
—	1158	2.0	8.05	2.01	48.9	6.77	28.32	0.10	1.28	129	cloudy
—	1201	3.5	8.04	1.91	55.3	6.44	28.29	0.09	1.24	127	cloudy
—	1204	4.0	8.03	2.02	21.5	6.34	28.30	0.10	1.29	125	cloudy
—	1207	5.5	8.04	2.00	9.24	6.30	28.29	0.10	1.29	121	clear
—	1210	7.0	8.04	2.00	8.03	6.27	28.29	0.09	1.28	119	clear
—	1213	8.5	8.04	1.96	6.59	6.28	28.30	0.09	1.25	115	clear
—	1216	10.0	8.05	1.94	6.60	6.29	28.31	0.09	1.23	113	clear
—	1219	11.5	8.05	1.90		6.31	28.31	0.09	1.23	111	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (8/31/2006)			6.97	2440	12.2	5.54	29.81	0.1		180	
Are measurements consistent with previous?			N	N	N	N	NA	Y		N	

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

Comments: No WL taken during purging b/c only one WL indicator and sharing w/ Alan Erickson

Initial Depth to Water (ft BTOC): 93.61
Field measured confirmation of Well Depth (ft btoc):
WD (Well Depth - from database) ft btoc (113.5)
SWH (Standing Water Height) = WD-Initial Depth 19.89
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 3.38
Three Casing Volumes = 10.14

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

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1142
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1230
1141	93.61	1235	93.62	
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 348319.CM.FW.00
Field Team 1 Field Conditions Windy 80°

Sampling Event 2006-CMP-010
Date 10/11/06
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Well/Sample Number OW-02D-010 **QC Sample ID** NA QC Sample Time —

Purge Start Time 0914 Purge Method 2" Redi Flow/Ded. Pump No

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 126.45 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
~~92.35~~ 92.35	0921	14	7.41	13.1	~~1.88~~ 4.68	4.10	31.45	0.75	8	116	Water Level Meter
91.55	0928	28	7.65	12.6	1.47	5.13	31.77	0.72	8	101	Seems to be off.
91.45	0935	42	7.82	12.4	1.37	5.77	31.72	0.71	8	92	" "
91.45	0942	56	7.93	12.0	1.44	5.99	31.87	0.69	8	86	↓ ↓
91.45	0949	70	8.03	11.9	1.49	5.99	31.82	0.68	8	82	
91.41	0956	84	8.07	11.8	1.31	6.03	32.10	0.67	8	80	
91.39	1003	98	8.11	11.9	1.65	6.01	32.29	0.68	8	78	
91.39	1010	112	8.14	12.1	1.30	6.01	32.51	0.69	8	77	
91.39	1017	126	8.17	12.0	1.51	6.09	32.47	0.68	8	77	
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	X	Y	NA	Y	X	X	
Previous Field measurement (8/31/2006)			7.57	7850	0.94	6.6	32.99	0.43		193	
Are measurements consistent with previous?			N	N	N	N	NA	N	—	N	

Sample Time 10:18 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 92.05

Field measured confirmation of Well Depth (ft btoc): ~~340~~ 340 ?

WD (Well Depth - from database) ft btoc (340)

SWH (Standing Water Height) = WD-Initial Depth 247.95

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

One Casing Volume = D*SWH 45.15

Three Casing Volumes = 126.45

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal 0855
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1041
0850	92.05	1046	91.22	

Comments:

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

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions windy 90°

Sampling Event 2006-CMP-010
Date 10/10/06
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Well/Sample Number OW-02M-010 **QC Sample ID** MW-91-010 QC Sample Time 1300

Purge Start Time 1005 Purge Method Grund fos 2" Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 60 Purge Rate (gpm)/(mLpm) ~~3~~ 2 gpm

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
91.55	1009	~~8~~ (FS)	8.13	10.3	1.57	5.48	32.58	0.59	7	87	
91.96	1013	16	8.14	11.2	1.48	5.98	32.37	0.63	7	85	
91.96	1017	24	8.15	11.3	1.25	6.02	32.46	0.64	7	84	
91.96	1021	32	8.16	11.3	1.19	6.11	32.58	0.64	7	85	
91.96	1025	40	8.16	11.5	2.02	6.23	32.59	0.65	7	85	
91.93	1029	48	8.17	11.4	1.95	6.35	32.56	0.65	7	86	
91.93	1033	56	8.18	11.4	1.41	6.39	32.56	0.65	7	86	
91.93	1037	64	8.18	11.4	1.44	6.42	32.59	0.65	7	86	
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y	~~Y~~	Y	
Previous Field measurement (8/30/2006)			7.46	7700	0.19	6.79	35	0.42		106	
Are measurements consistent with previous?			N	N	N	Y	NA	N	–	N	

Sample Time 1040 Sample Location: pump tubing Y well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 91.80

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

WD (Well Depth - from database) ft btoc (210.3)

SWH (Standing Water Height) = WD-Initial Depth 118.5

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

One Casing Volume = D*SWH 20.15

Three Casing Volumes = 60.44

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 41881

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	1050
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	1205
1050	91.80	1210	91.81		

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 348319.CM.FW.00
Field Team 1 Field Conditions Sunny, Windy, warm

Sampling Event 2006-CMP-010
Date 10/10/06
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Well/Sample Number OW-02S-010 **QC Sample ID** MW-90-010 QC Sample Time 1330

Purge Start Time 1024 Purge Method Waterra Ded. Pump ded. tubing

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 15 Purge Rate (gpm)/(mLpm) 0.33

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	1025	0.33	8.52	1.44	5.34	8.29	27.72	0.07	0.92	149	clear
—	1030	2.00	8.27	1.57	12.9	8.06	27.93	0.07	1.00	147	clear
—	1036	4.00	8.27	1.59	12.9	8.05	27.97	0.07	1.03	143	clear
—	1042	6.00	8.25	1.59	6.17	7.98	27.94	0.07	1.02	123	clear
—	1048	8.00	8.27	1.54	4.45	7.55	27.95	0.07	0.99	114	clear
—	1054	10.00	8.33	1.58	5.45	7.82	27.93	0.07	0.99	114	clear
—	1100	12.00	8.26	1.49	3.27	7.81	27.90	0.07	0.97	102	clear
—	1106	14.00	8.26	1.51	4.18	7.81	28.03	0.07	0.98	90	clear
—	1112	16.00	8.25	1.54	2.92	7.83	28.04	0.07	0.98	80	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (9/8/2006)			7.89	1600	3.14	8.13	27.49	0.08		146	
Are measurements consistent with previous?			Y	Y	Y	Y	NA			N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 92.33
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (121)
SWH (Standing Water Height) = WD-Initial Depth 28.67
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 4.87
Three Casing Volumes = 14.6

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal 1000 / Time of Reinstallation 1131
0959	92.33	1136	92.32	
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

Topock Sampling Log

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 **Field Conditions** Sunny, hot

Sampling Event 2006-CMP-010
Date 10/11/06
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EB-02 1500

Well/Sample Number OW-05D-010 **QC Sample ID** NA **QC Sample Time**

Purge Start Time 1342 Purge Method grundfos Ded. Pump N

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 130 Purge Rate (gpm)/(mLpm) 2.12

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
94.75	1344	5	8.12	20.3	2.07	7.32	33.21	1.18	13	85	clear
94.74	1351	22.5	7.83	13.0	2.62	1.74	32.51	0.75	8	49	clear
94.71	1358	40	7.97	12.0	2.37	6.62	32.45	0.69	8	34	clear
94.74	1405	57.5	8.02	11.9	2.03	6.78	32.41	0.68	8	31	clear
94.72	1412	75	8.04	11.9	1.09	6.68	32.30	0.68	8	37	clear
94.73	1419	92.5	8.07	11.9	1.18	6.58	32.30	0.67	8	35	clear
94.65	1426	110	8.08	11.6	1.17	6.90	32.35	0.65	8	29	clear
94.73	1433	127.5	8.09	11.5	1.62	6.89	32.22	0.65	7	23	clear
94.72	1435	132.5	8.09	11.4	1.56	6.89	32.22	0.65	7	24	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (8/30/2006)			7.68		0.61	6.09	31.49			78	
Are measurements consistent with previous?			Y	Y	N	Y	NA			N	

Sample Time 1440 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): 94.39 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

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

WD (Well Depth - from database) ft btoc (350)

SWH (Standing Water Height) = WD-Initial Depth 255.61

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

One Casing Volume = D*SWH 43.45

Three Casing Volumes = 130.36

Initial DTW / Before Removal		If Transducer		
		Approx. 5 min After Reinstallation		Time of Removal 1327
Time	Initial DTW	Time	Final DTW	Time of Reinstallation 1448
1326	94.39	1453	94.36	

Comments:

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

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Topock Sampling Log

Project Name PGE Topock CMP
Job Number 348319.CM.FW.00
Field Team 1 Field Conditions Sunny, warm

Sampling Event 2006-CMP-010
Date 10/11/06
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Well/Sample Number OW-05M-010 **QC Sample ID** NA QC Sample Time N/A

Purge Start Time 1136 Purge Method grundfos Ded. Pump N

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) 80 Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
94.81	1137	2	7.88 ~~8.44~~	9.81	3.34	7.04	32.35	0.56	6.5	78	clear
94.82	1142	12	7.88	13.9	1.48	5.51	31.98	0.81	9	60	clear
94.82	1147	22	8.00	14.2	10.5	6.88	32.22	0.83	9	47	clear, slightly cloudy
94.82	1152	32	8.06	14.6	3.08	7.06	32.14	0.86	9	49	clear
94.82	1157	42	8.09	14.4	1.48	6.94	32.12	0.80	9	42	clear
94.81	1202	52	8.13	13.7	2.16	4.91	32.13	0.81	9	36	clear
94.81	1207	62	8.15	14.0	1.36	6.67	32.10	0.84	9	34	clear
94.79	1212	72	8.14	14.3	1.46	6.61	32.04	0.82	9	33	clear
94.80	1217	82	8.17	13.9	1.22	6.49	32.14	0.83	9	31	clear
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA	Y		Y	
Previous Field measurement (8/30/2006)			7.61	9800	0.46	4.77	31.31	0.55		75	
Are measurements consistent with previous?			N	N	N	N	NA	N		N	

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

Comments: ____

Initial Depth to Water (ft BTOC): 94.35 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: PGE-2005-02

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

WD (Well Depth - from database) ft btoc (250.3)

SWH (Standing Water Height) = WD-Initial Depth 155.95

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

One Casing Volume = D*SWH 26.51

Three Casing Volumes = 79.53

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		
Time	Initial DTW	Time	Final DTW	Time of Removal JDL 1026 ~~1026~~ 1126 JDL
1126	94.35	1239	93.23	Time of Reinstallation 1234
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 348319.CM.FW.00
Field Team 1 Field Conditions Windy, warm, cloudy

Sampling Event 2006-CMP-010
Date 10/10/06
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Well/Sample Number OW-05S-010 **QC Sample ID** NA QC Sample Time

Purge Start Time 0912 Purge Method Waterra Ded. Pump ded. pump tubing.

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 8.0 Purge Rate (gpm)/(mLpm) 1/2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. oC	Salinity %	TDS g/L	Eh/ORP mv	Comments (See description below
—	0914	1	8.10	1.52	72.7	10.88	27.38	0.07	0.99	164	cloudy
—	0916	2	8.09	1.54	82.7	8.12	27.92	0.07	0.99	162	cloudy
—	0918	3	8.12	1.47	56.1	7.87	27.96	0.07	0.95	159	cloudy
—	0920	4	8.14	1.50	63.8	7.91	27.98	0.07	0.96	157	cloudy
—	0922	5	8.15	1.47	50.4	7.81	27.98	0.07	0.95	155	cloudy
—	0924	6	8.16	1.47	35.2	7.86	28.00	0.07	0.94	153	cloudy
—	0926	7	8.16	1.45	32.2	7.80	27.99	0.07	0.93	151	cloudy
—	0928	8	8.17	1.43	25.7	7.76	28.02	0.07	0.93	150	cloudy
Parameter Stabilization Criteria			+/- 0.1 pH units	+/- 3%	+/- 10% NTU units when >10 NTUs	+/- 0.3 mg/L	NA	NA	NA	+/- 10 mV	
Did Parameters Stablize prior to sampling?			Y	Y	Y	Y	NA			Y	
Previous Field measurement (8/31/2006)			7.19	1810	16	7.88	29.8	0.1		190	
Are measurements consistent with previous?			N	N	N	Y	NA	Y		Y	

Sample Time 0930 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: At Water level indicator is broken, sharing w/ Alan Erickson, so no WL measurements taken during purging.

Initial Depth to Water (ft BTOC): 95.10
Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc (110.3)
SWH (Standing Water Height) = WD-Initial Depth 15.2
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 2.58
Three Casing Volumes = 7.75

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

Initial DTW / Before Removal		If Transducer: Approx. 5 min After Reinstallation		Time of Removal	0845
Time	Initial DTW	Time	Final DTW	Time of Reinstallation	0941
0845	95.10	0946	95.11		

Comments:

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