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July 13, 2007

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Subject: Interim Measures Compliance Monitoring Program
Semiannual Groundwater Monitoring Report, First Half 2007
PG&E Topock Compressor Station, Needles, California

Dear Mr. Yue and Mr. Perdue:

Enclosed is the *Semiannual Groundwater Monitoring Report, First Half 2007* for the Interim Measure Compliance Monitoring Program (CMP) at the PG&E Topock Compressor Station. This monitoring report presents the results of the first and second quarter 2007 CMP groundwater monitoring events, and has been prepared in conformance with RWQCB Order No. R7-2006-0060, as well as with DTSC's July 15, 2005 letter approving the Compliance Monitoring Plan and June 9, 2006 letter modifying the reporting requirements.

On August 8, 2006, PG&E submitted a revised contingency plan flowchart for groundwater quality changes associated with the injection system. The contingency plan specifies the concentrations and values for hexavalent chromium, total chromium, total dissolved solids and pH to be used to determine if contingency plan actions were necessary based on sample results. The concentrations used to trigger the contingency plan are as follows: hexavalent chromium greater than 32.6 µg/L, total chromium greater than 28.0 µg/L, total dissolved solids greater than 10,800 mg/L, and pH outside of the range of 7.6 to 8.89. Data collected during first quarter 2007 and associated contingency plan actions were discussed in the *Interim Measures Compliance Monitoring Program Groundwater Monitoring Report, First Quarter 2007*, submitted April 13, 2007. The following paragraphs discuss second quarter 2007 data and associated contingency plan actions.

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Robert Perdue
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During the second quarter 2007 monitoring event, a sample from the well OW-2S exceeded the hexavalent chromium action level ($35.0 \mu\text{g/L}$), and a sample from the well OW-2S exceeded the total chromium action level ($37.4 \mu\text{g/L}$). A review of the water quality parameters indicative of treated groundwater injection (hexavalent chromium, total dissolved solids, sulfate, nitrate/nitrite and fluoride) confirm that injected water has not yet reached OW-2S and that these concentrations of total and hexavalent chromium are not related to injected water (which has significantly lower chromium concentrations), but instead are related to the natural variability within the shallower portions of the aquifer.

In a letter dated January 5, 2007, DTSC stated that it was not necessary to follow contingency plan requirements for hexavalent and total chromium with respect to OW-2S and OW-5S. The Colorado River Basin RWQCB concurred with this decision in a letter dated March 2, 2007. As such, the contingency plan was not triggered due to the hexavalent and total chromium concentrations detected in OW-2S during the second quarter 2007.

No other samples exceeded the action levels for hexavalent chromium, total chromium, pH or total dissolved solids during second quarter 2007 sampling. The next CMP sampling event is scheduled to occur the week of August 6, 2007.

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

Sincerely,

cc. Cliff Raley, RWQCB
Abdi Haile, RWQCB
Christopher Guerre, DTSC

Enclosure

Compliance Monitoring Program Semiannual Groundwater Monitoring Report, First Half 2007

**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

July 13, 2007

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**Compliance Monitoring Program
Semiannual Groundwater Monitoring Report
First Half 2007**

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

Prepared for

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

On Behalf of

Pacific Gas and Electric Company

July 13, 2007

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



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Acronyms and Abbreviations

CCV	continuing calibrations
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
IM No. 3	Interim Measure No. 3
IW	injection well
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
UCL	Upper control limit
USEPA	United States Environmental Protection Agency
Water Board	California Regional Water Quality Control Board, Colorado River Basin Region
WDR	Waste Discharge Requirements
WQO	water quality objective

1.0 Introduction

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

On October 13, 2004, the California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) adopted Waste Discharge Requirements (WDR) Order No. R7-2004-0103, 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 described 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. R7-2006-0060. 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 of 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 of 2006, injection occurred solely at IW-3, except during routine maintenance. During the first quarter of 2007,

injection continued to occur at IW-3 and transitioned over to IW-2 on March 8. During the second quarter of 2007, injection occurred solely at IW-3 starting on April 3. A scheduled plant shutdown occurred from April 22 to April 28, 2007. 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. (All tables are provided at the end of this report.)

In December 2006, PG&E requested a reduction of constituents analyzed during quarterly sampling of the CMP observation wells (CH2M HILL, 2006a). In a letter dated January 22, 2007 (DTSC, 2007), DTSC approved PG&E's request. The Water Board concurred in a letter dated January 23, 2007 (Water Board, 2007). Observation wells (OWs) are now sampled for a limited suite of constituents during quarterly monitoring events. The first quarter 2007 sampling event was the first event to incorporate this change. Semiannual CMP events still retain the original constituent suite for the observation and compliance wells (CWs).

Under the CMP, as of May 2007, samples are collected from monitoring wells (Figure 2) according to the following schedule:

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

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. For quarterly events, the metals, cations, and anions list is reduced. Groundwater elevation data and field water quality data—including specific conductance, temperature, pH, oxidation-reduction potential, dissolved oxygen, turbidity and salinity—are also measured during each monitoring event (CH2M HILL, 2005a).

This semiannual report presents the results of the first half 2007 (first and second quarter) CMP groundwater monitoring events.

2.0 First Half 2007 Activities

This section provides a summary of the monitoring and sampling activities completed during the first half of 2007. The first quarter 2007 monitoring event was conducted during January 24 and 25, 2007 and consisted of:

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

The second quarter 2007 event was conducted from April 30 to May 4, 2007 and consisted of:

- Nine observation monitoring wells were sampled for water quality analyses.
- Eight compliance monitoring wells (CW series) were sampled for water quality analyses.
- Groundwater elevations and field water quality data were collected prior to sampling.
- Two duplicate samples were collected at wells OW-5M and CW-3M to assess field sampling and analytical quality control.

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

The results of the first quarter 2007 monitoring activities have been presented previously in the document *Compliance Monitoring Program Groundwater Monitoring Report, First Quarter 2007* (CH2M HILL, 2007a). 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 First Half 2007 Results

This section summarizes the results of the CMP groundwater sampling conducted during the first half of 2007. Figure 2 presents the locations of the CMP groundwater wells.

The data presented include results for Cr(VI), Cr(T), pH, specific conductance, metals, TDS, turbidity, and major inorganic cations and anions. Laboratory data quality review, water level measurements, and water quality field parameter data are also presented in this section. The laboratory reports for the second quarter 2007 monitoring are presented in Appendix A. Laboratory reports for the first quarter 2007 were previously reported in the prior monitoring report (CH2M HILL, 2007a).

3.1 Analytical Results

Seventeen compliance and observation wells were sampled during the second quarter 2007 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). On August 8, 2006, PG&E submitted a revised contingency plan flowchart for groundwater quality changes associated with the injection system. The contingency plan specifies the concentrations and values for Cr(VI), TDS, and pH to be used to determine if contingency plan actions were necessary based on sample results.

3.1.1 Hexavalent and Total Chromium

Table 2 presents the Cr(VI) and Cr(T) results for groundwater in the shallow, middle, and deep wells for the first half 2007 CMP sampling events. For shallow wells, the maximum detected Cr(VI) concentration was 37.2 micrograms per liter ($\mu\text{g}/\text{L}$) in well OW-2S on January 24, 2007. For the middle wells, the maximum detected Cr(VI) concentration was 20.8 $\mu\text{g}/\text{L}$ in well CW-4M on May 1, 2007. For the deep wells, the maximum detected Cr(VI) concentration was 4.7 $\mu\text{g}/\text{L}$ in well CW-3D on May 2, 2007.

During the first half of 2007, two samples exceeded the WQO of 32.6 $\mu\text{g}/\text{L}$ for Cr(VI). The January 24, 2007 and the April 30, 2007 samples from well OW-2S had concentrations of 37.2 $\mu\text{g}/\text{L}$ and 35.0 $\mu\text{g}/\text{L}$. 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 0.5 $\mu\text{g}/\text{L}$ (CH2M HILL, 2007b). 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 38.8 $\mu\text{g}/\text{L}$ in well OW-2S on January 24, 2007. For the middle wells, the maximum detected Cr(T) concentration was

21.8 µg/L in well CW-4M on May 1, 2007. For the deep wells, the maximum detected Cr(T) concentration was 4.95 µg/L in well CW-3D on May 2, 2007.

During the first half of 2007, three samples exceeded the WQO of 28 µg/L for Cr(T). The January 24, 2007 and the April 30, 2007 samples from well OW-2S had concentrations of 38.8 µg/L and 37.4 µg/L. The January 25, 2007 sample from well OW-5S had a concentration of 28.5 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 first half of 2007. As previously mentioned, the observation wells are now sampled for a limited suite of constituents during quarterly monitoring events. The first quarter 2007 sampling event was the first event to incorporate this change in which a smaller suite of metals and general chemistry constituents were collected. Metals and cations detected in the first half of 2007 sampling included aluminum, arsenic, barium, boron, calcium, copper, magnesium, manganese, molybdenum, nickel, potassium, selenium, sodium, vanadium, and zinc. 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 first half of 2007, the sampling results for TDS and pH in all wells were within the WQOs, with one exception. The January 24, 2007 sample from OW-2M had a pH value of 7.50 compared to the WQO range of 7.6 to 8.89. For this occurrence, the result is not considered to be the result of the injection of treated groundwater, as the average pH of the IM No. 3 treatment plant effluent is approximately 8.0 (CH2M HILL, 2007b). A sample was re-collected on April 12, 2007 to verify the results and the pH value was 7.71, which is within the WQO range for pH. A sample collected from well OW-2M on April 30, 2007 as part of the semiannual sampling event had a pH of 7.82.

3.2 Analytical Data Quality Review

The laboratory analytical data generated from the first half 2007 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 first quarter of 2007, matrix interference was encountered in two groundwater samples that affected the sensitivity for Cr(VI) when using United States Environmental Protection Agency (USEPA) Method SW7199. The Cr(VI) sample results from OW-1M and OW-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.

For the second quarter 2007 sampling event, matrix interference was encountered in two groundwater samples that affected the sensitivity for Cr(VI) when using USEPA Method SW7199. The Cr(VI) sample results from OW-1D and 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. In addition, six of the groundwater samples required dilutions to overcome matrix issues for the ammonia (E350.2) analysis. No qualifier flags were applied.

3.2.2 Matrix Spike Samples

For the first quarter 2007 sampling event, all matrix spike acceptance criteria were met.

For the second quarter 2007 sampling event, two samples had matrix spike and/or matrix spike duplicate results that were recovered outside the control limits (SW6020A boron, calcium, and sodium). The detected sample results were qualified as estimated and flagged "J." All other matrix spike acceptance criteria were met.

3.2.3 Quantitation and Sensitivity

For the first quarter 2007 sampling event, method and analyte combinations met the project reporting limit objectives, except for the matrix interference issue explained above.

For the second quarter 2007 sampling event, the laboratory was unable to achieve satisfactory relative standard deviations on six of the beryllium (SW6020A) sample results analyzed without dilution. The samples were then re-analyzed and reported from tenfold dilutions. Beryllium was not detected at the elevated reporting limit, and no qualifier flags were applied. With the exception of the matrix interference issues discussed in Section 3.2.1 and the beryllium issue, all method and analyte combinations met the project reporting limit objectives.

3.2.4 Holding Time Data Qualification

For the first quarter 2007 sampling event, all method holding time requirements were met, with the following exceptions: five pH samples were analyzed outside of the recommended holding time due to a communication issue, and specific conductance samples were analyzed outside of the recommended holding time due to a lab protocol issue that required re-analyses of the samples. The pH results were not usable and were rejected (R flagged), and the specific conductance samples were qualified as estimated (J flagged). The laboratory has been instructed to take corrective measures to avoid similar issues in the future.

For the second quarter 2007 sampling event, all method holding time requirements were met, with the following exceptions: two turbidity (E180.1) samples were analyzed outside of the recommended holding time by one day due to a communications mix-up (samples were collected on Friday and analyzed on Monday). The detected sample result was qualified as estimated and flagged "J". The non-detect sample result was qualified as estimated and flagged "J". Based on the March 2007 EPA Ruling, pH now has a 15 minute holding time. As a result, pH (SM4500-HB) samples analyzed in a certified lab will require qualification. The methodology for field collection and laboratory analysis remains the same as described in

the approved site QAPP and is unchanged from previous CMP sampling events. However, because USEPA method requirements have changed, the validation of the data must take this into consideration when reviewing analytical data. Therefore, pH results were qualified as estimated and "J" flagged.

3.2.5 Field Duplicates

For the first quarter 2007 sampling event, field duplicate acceptance criteria were met.

For the second quarter 2007 sampling event, one field duplicate pair of nitrate/nitrite (E353.3) samples had a relative percent difference greater than the upper control limit (UCL). The samples' results were qualified as estimated and "J" flagged. All other field duplicate acceptance criteria were met.

3.2.6 Method Blanks

For the first quarter 2007 sampling event, method blank acceptance criteria were met.

For the second quarter 2007 sampling event, method blank acceptance criteria were met.

3.2.7 Equipment Blanks

For the first quarter 2007 sampling event, equipment blank acceptance criteria were met.

For the second quarter 2007 sampling event, equipment blank acceptance criteria were met.

3.2.8 Laboratory Duplicates

For the first quarter 2007 sampling event, laboratory duplicate acceptance criteria for the methods were met.

For the second quarter 2007 sampling event, laboratory duplicate acceptance criteria for the methods were met.

3.2.9 Calibration

For the first quarter 2007 groundwater sampling event, the calibration objectives were met.

For the second quarter 2007 sampling event, initial and continuing calibration values (CCVs) were performed as required by the methods. All calibration criteria were met, with the following exceptions. Five chloride (E300) sample results were qualified as estimated and "J" flagged due to CCV recoveries greater than the UCL. Six sulfate (E300) sample results were qualified as estimated and "J" flagged due to CCV recoveries greater than the UCL.

3.2.10 Conclusion

For the first quarter 2007 groundwater 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 five 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.

For the second quarter 2007 sampling event, the completeness objectives were met for all method and analyte combinations. The analyses and data quality met the QAPP and laboratory method quality control criteria except as noted above. Overall, the analytical data are considered acceptable for the purpose of the CMP.

3.3 Influence of Treated Water

3.3.1 Post-injection Versus Pre-injection

Injection of treated water began on July 31, 2005. Under WDR No. R7-2006-0060 for the IM No. 3 groundwater treatment system, PG&E is required to submit 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 April 4, 2007. 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 April 2007 effluent characteristics):

- Cr(VI): typically non-detect (0.001) milligrams per liter (mg/L)
- Cr(T): typically non-detect (0.001) mg/L
- Fluoride: approximately 1.9 to 2.0 mg/L
- Molybdenum: approximately 0.008 to 0.018 mg/L
- Nitrate as nitrogen: approximately 2 to 4 mg/L
- Sulfate: approximately 400 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 first and second quarter 2007 sampling events. These samples were collected after approximately 18 to 22 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 first and second quarter 2007 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 that injected water has not yet reached these depths and locations.

3.3.2 Water Quality Hydrographs

Trend data can be used to determine when a rapid change has occurred between sampling events, such as the arrival of the injection front. It can also be used to look at more gradual changes that occur over several sampling events, such as seasonal effects or the interaction of treated water with local groundwater and host aquifer material. Eleven analytes were selected for time-series analysis; these analytes are considered to be most representative of the IM No. 3 injection well field area and have sufficient detections to make time series analysis useful. The analytes include chloride, Cr(T), fluoride, Cr(VI), molybdenum, nitrate 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 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 can be inferred from differences in the water quality hydrographs in both the mid-depth and deep wells. The OW shallow-depth wells (OW-1S, OW-2S, and OW-5S) show little water quality variation over time and generally have no net trends over time. TDS, sodium, 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. Well CW-1D is an exception to this, showing a decreasing trend in TDS and molybdenum and an increasing trend in fluoride and sulfate. These changes are attributed to the arrival of treated injection water. Well CW-1M is also affected by treated injection water, but because its water quality parameters were originally close to those of treated water, they do not change much 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 22-month period.

3.4 Water Level Measurements

Table 7 presents the manual water level measurements and groundwater elevations for the first half 2007 monitoring events.

As a requirement of the conditional approval by DTSC (DTSC, 2005), water level measurements were used to produce hydrographs for each well cluster. Figures 4A through 4G present hydrographs that illustrate groundwater elevation trends and vertical hydraulic gradients observed over the first half 2007 reporting period at the observation and compliance monitoring wells.

Average groundwater elevation maps for shallow, middle, and deep wells are also provided as Figures 5A through 5C. Water levels used to produce the monthly average groundwater elevation contour plots were taken from a 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, 2007c), 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 can be seen around the injection wells. 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 22 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 April 15 through May 15, 2007 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.

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 April 15 through May 15, 2007 average groundwater levels. The magnitude of the vertical gradients is similar between clusters and between the depth intervals, indicating that the vertical gradient is of the same order of magnitude throughout the injection area. A component of the vertical gradients calculated in the vicinity of the IM No. 3 injection well field is undoubtedly related to the injection of treated water in the lower portions of the aquifer. The observed groundwater gradients in the IM No. 3 injection well field are consistent with expected regional groundwater flow within the southern Mohave Valley.

3.5 Field Parameter Data

A field water quality instrument and flow-through cell were used to measure water quality parameters during well purging and groundwater sampling. The measured field parameters included specific conductance, temperature, pH, oxidation-reduction potential, dissolved oxygen, turbidity, and salinity. Table 9 summarizes the field water quality data measured during the first and second quarter 2007 monitoring events. Field data sheets for the second quarter 2007 event are presented in Appendix B. Field documentation for the first quarter 2007 event was previously presented in the prior monitoring report (CH2M HILL, 2007a).

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 first half of 2007 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 in August during the third 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 October 15, 2007.

4.2 Semiannual Monitoring

The next semiannual monitoring event will occur in October during the fourth 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). The groundwater monitoring report for this semiannual CMP monitoring event will be submitted by January 15, 2008.

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.
- _____. 2006. Letter to PG&E. "Third and Fourth Quarter Groundwater Monitoring Reports, Compliance Monitoring Program for Interim Measures No. 3 Injection Well Field Area, Pacific Gas & Electric Company, Topock Compressor Station, Needles, California." June 9.
- _____. 2007. Letter to PG&E. "Conditional Approval of Request for Reduced Groundwater Sampling Frequency for Select Constituents at Pacific Gas & Electric Company, Topock Compressor Station, Needles, California." January 22.
- California Regional Quality Control Board, Colorado River Basin Region (Water Board).
2007. Letter to PG&E. "Conditional Approval of Limited Sampling Frequency for Selected Metals/General, PG&E, Topock Compressor Station, Needles, California." January 23.
- CH2M HILL. 2005a. *Groundwater Compliance Monitoring Plan for Interim Measure No. 3 Injection Area, Topock Compressor Station, Needles, California*. June 17.
- _____. 2005b. *Sampling, Analysis, and Field Procedures Manual, Revision 1, PG&E Topock Compressor Station, Needles, California*. March 31.
- _____. 2005c. *Addendum to the Compliance Monitoring Plan for the IM No. 3 Injection Area, Topock Compressor Station*. December 13.
- _____. 2006a. *Request for Approval to Implement Limited Sampling Frequency for Selected Metals/General Minerals for PG&E Topock Compressor Station*. December 1.
- _____. 2007a. *Compliance Monitoring Program Groundwater Monitoring Report, First Quarter 2007, Interim Measure No. 3, Topock Compressor Station, Needles, California*. April 13.
- _____. 2007b. *April 2007 Monitoring Report for Interim Measures No. 3 Groundwater Treatment System, Water Discharge Requirements Order No. R7-2006-0060, Topock Compressor Station, Needles, California*. May 15.
- _____. 2007c. *Groundwater and Surface Water Monitoring Report, First Quarter 2007 and Annual Summary, Topock Compressor Station, Needles, California*. April 2.

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: Yvonne Meeks
Name: Yvonne J. Meeks
Company: Pacific Gas and Electric Company
Title: Topock Project Manager
Date: July 13, 2007

Tables

TABLE 1

Well Construction and Sampling Summary for Groundwater Samples, Second Quarter 2007

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	566.16	140 - 190	2 (PVC)	190.0	108.8	Dedi Redi-Flo AR	2	42	165	Active	
CW-01D	East Mesa	566.57	250 - 300	2 (PVC)	300.2	108.8	Temp Redi-Flo AR	3	110	180	Active	
CW-02M	East Mesa	549.45	152 - 202	2 (PVC)	202.0	92.4	Temp Redi-Flo AR	2	55	195	Active	
CW-02D	East Mesa	549.43	285 - 335	2 (PVC)	355.0	91.8	Temp Redi-Flo AR	3	140	159	Active	
CW-03M	East Mesa	534.21	172 - 222	2 (PVC)	222.0	77.2	Temp Redi-Flo AR	2	75	180	Active	
CW-03D	East Mesa	534.27	270 - 320	2 (PVC)	340.0	77.1	Temp Redi-Flo AR	3	140	143	Active	
CW-04M	East Mesa	518.66	119.5 - 169.8	2 (PVC)	169.8	61.2	Temp Redi-Flo AR	2	60	160	Active	
CW-04D	East Mesa	518.68	233 - 283	2 (PVC)	303.0	61.2	Temp Redi-Flo AR	3	120	134	Active	
IM Observation Wells												
OW-01S	East Mesa	550.21	83.5 - 113.5	2 (PVC)	113.5	93.2	Temp Waterra Hyd.	1	15	100	Active	
OW-01M	East Mesa	550.45	165 - 185	2 (PVC)	185.8	93.2	Temp Redi-Flo AR	2	54	109.6	Active	
OW-01D	East Mesa	550.48	257 - 277	2 (PVC)	277.0	92.6	Temp Redi-Flo AR	3	100	111.4	Active	
OW-02S	East Mesa	548.75	71 - 101	2 (PVC)	121.0	91.7	Temp Waterra Hyd.	2	15	100	Active	
OW-02M	East Mesa	548.59	190 - 210	2 (PVC)	210.3	91.3	Temp Redi-Flo AR	3	60	111.4	Active	
OW-02D	East Mesa	549.15	310 - 330	2 (PVC)	340.0	91.0	Temp Redi-Flo AR	3	120	110.3	Active	
OW-05S	East Mesa	551.75	70 - 110	2 (PVC)	110.3	84.6	Temp Waterra Hyd.	1	9	100	Active	
OW-05M	East Mesa	551.75	210 - 250	2 (PVC)	250.3	93.9	Temp Redi-Flo AR	3	80	112.5	Active	
OW-05D	East Mesa	552.35	300 - 320	2 (PVC)	350.0	94.0	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.

All wells were purged and sampled using well-volume method.

TABLE 2
 Chromium Results for Groundwater Samples, First and Second Quarter 2007
PG&E Topock Compliance Monitoring Program

Method:		SW7199	SW6020A, SW6010B
Location ID	Sample Date	Hexavalent Chromium ($\mu\text{g/L}$)	Dissolved Chromium ($\mu\text{g/L}$)
CW-01M	5/2/2007	6.90	8.08
CW-01D	5/2/2007	ND (1.0)	ND (1.0)
CW-02M	5/4/2007	15.3	16.0
CW-02D	5/4/2007	1.80	4.31
CW-03M	5/2/2007 (FD)	11.4	11.4
CW-03M	5/2/2007	11.4	11.2
CW-03D	5/2/2007	4.70	4.95
CW-04M	5/1/2007	20.8	21.8
CW-04D	5/1/2007	2.80	3.60
OW-01S	1/24/2007	20.1	18.8
OW-01S	5/1/2007	18.0	20.0
OW-01M	1/25/2007	ND (1.0)	1.50
OW-01M	5/1/2007	0.75	1.31
OW-01D	1/25/2007	ND (1.0)	ND (1.0)
OW-01D	5/2/2007	ND (1.0)	1.75
OW-02S	1/24/2007 (FD)	37.1	38.4
OW-02S	1/24/2007	37.2	38.8
OW-02S	4/30/2007	35.0	37.4
OW-02M	1/24/2007	2.40	2.90
OW-02M	4/30/2007	1.50	2.50
OW-02D	1/24/2007	ND (0.2)	ND (1.0)
OW-02D	4/30/2007	0.29	ND (1.0)
OW-05S	1/25/2007	27.8	28.5
OW-05S	4/30/2007	24.1	25.6
OW-05M	1/25/2007	ND (0.2)	1.50
OW-05M	4/30/2007 (FD)	0.36	1.25
OW-05M	4/30/2007	0.35	ND (1.0)
OW-05D	1/25/2007	ND (0.2)	ND (1.0)
OW-05D	5/1/2007	ND (0.2)	ND (1.0)

Notes:

FD field duplicate

ND parameter not detected at the listed reporting limit

$\mu\text{g/L}$ micrograms per liter

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

TABLE 3

Metal and Cation Results for Groundwater Samples, First and Second Quarter 2007

PG&E Topock Compliance Monitoring Program

Method:		Filtered SW6010B, SW6020A, SW7470A (Mercury)																								
Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Boron	Calcium	Iron ¹	Iron	Potassium	Magnesium	Sodium
ID	Date	µg/L																			mg/L					
CW-01M	5/2/2007	ND (50)	ND (2.0)	2.28	86.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	21.6	1.87	1.60	ND (1.0)	ND (1.0)	3.74	ND (10)	1.15	135	ND (0.5)	ND (0.1)	11.0	11.2	1450	
CW-01D	5/2/2007	ND (50)	ND (2.0)	2.75	21.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	12.9	1.65	2.35	ND (1.0)	ND (1.0)	5.05	ND (10)	1.27	117	ND (0.5)	ND (0.1)	9.68	10.3	1490	
CW-02M	5/4/2007	ND (50)	ND (2.0)	2.46	60.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	22.9	1.17	ND (1.0)	ND (1.0)	ND (1.0)	4.24	ND (10)	1.17	113	ND (0.5)	ND (0.1)	10.2	8.74	1350	
CW-02D	5/4/2007	ND (50)	ND (2.0)	3.90	15.2	ND (1.0)	ND (1.0)	ND (1.0)	3.47	ND (1.0)	ND (1.0)	ND (0.2)	73.2	1.42	2.00	ND (1.0)	ND (1.0)	5.45	ND (10)	1.87	106	ND (0.5)	ND (0.1)	11.5	5.68	1880
CW-03M	5/2/2007 (FD)	ND (50)	ND (2.0)	1.30	53.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	21.0	1.21	ND (1.0)	ND (1.0)	ND (1.0)	2.43	ND (10)	1.14	222	ND (0.5)	ND (0.1)	13.9	18.1	1780	
CW-03M	5/2/2007	ND (50)	ND (2.0)	1.22	54.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	21.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.31	ND (10)	1.14	221	ND (0.5)	ND (0.1)	13.9	18.3	1760	
CW-03D	5/2/2007	ND (50)	ND (2.0)	1.28	25.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.96	ND (0.2)	60.5	3.01	ND (1.0)	ND (1.0)	ND (1.0)	2.19	ND (10)	1.66	207	ND (0.5)	ND (0.1)	16.9	16.2	2510
CW-04M	5/1/2007	ND (50)	ND (2.0)	2.46	75.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	11.3	2.19	1.04	ND (1.0)	ND (1.0)	3.40	ND (10)	0.804	137	ND (0.5)	ND (0.1)	10.3	11.5	1200	
CW-04D	5/1/2007	ND (50)	ND (2.0)	3.42	32.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.38	ND (0.2)	42.5	1.60	ND (1.0)	ND (1.0)	ND (1.0)	2.84	ND (10)	1.49	217	ND (0.5)	ND (0.1)	13.6	14.3	2250
OW-01S	1/24/2007	---	---	---	---	---	---	---	---	---	---	9.00	---	---	---	---	---	---	0.289	---	---	---	---	---	---	
OW-01S	5/1/2007	ND (50)	ND (2.0)	1.14	82.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.66	ND (0.2)	8.45	3.51	1.90	ND (1.0)	ND (1.0)	2.44	ND (10)	0.274	102	ND (0.5)	ND (0.1)	8.24	17.6	397
OW-01M	1/25/2007	---	---	---	---	---	---	---	---	---	---	10.8	---	---	---	---	---	---	1.03	---	---	---	---	---	---	
OW-01M	5/1/2007	111	ND (2.0)	1.22	67.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	8.83	ND (1.0)	1.78	ND (1.0)	ND (1.0)	1.84	24.5	0.885	133	ND (0.5)	ND (0.1)	9.81	12.0	1090	
OW-01D	1/25/2007	---	---	---	---	---	---	---	---	---	---	17.6	---	---	---	---	---	---	1.10	---	---	---	---	---	---	
OW-01D	5/2/2007	ND (50)	ND (2.0)	2.36	33.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	14.1	1.36	2.15	ND (1.0)	ND (1.0)	4.96	ND (10)	1.24	120	ND (0.5)	ND (0.1)	10.4	10.1	1380	
OW-02S	1/24/2007 (FD)	---	---	---	---	---	---	---	---	---	---	40.7	---	---	---	---	---	---	0.597	---	---	---	---	---	---	
OW-02S	1/24/2007	---	---	---	---	---	---	---	---	---	---	42.5	---	---	---	---	---	---	0.663	---	---	---	---	---	---	
OW-02S	4/30/2007	ND (50)	ND (2.0)	2.45	50.3	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.10	ND (0.2)	40.0	1.73	2.77	ND (1.0)	ND (1.0)	5.80	ND (10)	0.737	36.9	ND (0.5)	ND (0.1)	5.84	4.97	331
OW-02M	1/24/2007	---	---	---	---	---	---	---	---	---	---	11.7	---	---	---	---	---	---	1.23	---	---	---	---	---	---	
OW-02M	4/30/2007	ND (50)	ND (2.0)	1.08	62.2	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	11.4	1.53	2.26	ND (1.0)	ND (1.0)	2.10	ND (10)	1.17	173	ND (0.5)	ND (0.1)	12.3	16.2	1340	
OW-02D	1/24/2007	---	---	---	---	---	---	---	---	---	---	12.1	---	---	---	---	---	---	0.994	---	---	---	---	---	---	
OW-02D	4/30/2007	ND (50)	ND (2.0)	2.00	19.7	ND (10)	ND (1.0)	ND (1.0)	1.03	ND (1.0)	ND (0.2)	13.0	1.02	2.08	ND (1.0)	ND (1.0)	1.48	ND (10)	1.20	164	ND (0.5)	ND (0.1)	11.3	17.5	1320	
OW-05S	1/25/2007	---	---	---	---	---	---	---	---	---	---	29.4	---	---	---	---	---	---	0.411	---	---	---	---	---	---	
OW-05S	4/30/2007	ND (50)	ND (2.0)	1.33	59.4	ND (10)	ND (1.0)	ND (1.0)	1.14	ND (1.0)	ND (0.2)	22.6	3.00	2.69	ND (1.0)	ND (1.0)	3.70	ND (10)	0.416 J	59.2 J	ND (0.5)	ND (0.1)	6.88	9.12	273 J	
OW-05M	1/25/2007	---	---	---	---	---	---	---	---	---	---	17.9	---	---	---	---	---	---	1.04	---	---	---	---	---	---	
OW-05M	4/30/2007 (FD)	ND (50)	ND (2.0)	1.17	38.1	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	12.9	2.31	2.36	ND (1.0)	ND (1.0)	1.81	ND (10)	1.21	131	ND (0.5)	ND (0.1)	10.3	8.89	1490	
OW-05M	4/30/2007	ND (50)	ND (2.0)	1.15	37.9	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	12.7	2.12	2.26	ND (1.0)	ND (1.0)	1.80	ND (10)	1.21	131	ND (0.5)	ND (0.1)	10.5	8.92	1510	
OW-05D	1/25/2007	---	---	---	---	---	---	---	---	---	---	14.0	---	---	---	---	---	---	1.04	---	---	---	---	---	---	
OW-05D	5/1/2007	ND (50)	ND (2.0)	1.24	18.8	ND (1.0)	ND (1.0)	ND (1.0)	3.04	ND (1.0)	ND (0.2)	14.7	3.00	2.25	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	1.17 J	156 J	ND (0.5)	ND (0.1)	12.0	15.8	1370 J	

TABLE 4

Other Inorganic Results for Groundwater Samples, First and Second Quarter 2007

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 CaCO ₃ (mg/L)	Alkalinity as carbonate (mg/L)	Alkalinity, total as CaCO ₃ (mg/L)	Ammonia as Nitrogen (mg/L)
CW-01M	5/2/2007	6800	7.66 J	4130	ND (0.1)	2060	3.27	416	1.83	48.0	ND (5.0)	48.0	ND (0.5)
CW-01D	5/2/2007	6900	7.85 J	4650	ND (0.1)	2040	4.44	466	2.19	65.0	ND (5.0)	65.0	ND (0.5)
CW-02M	5/4/2007	6360	7.85 J	4030	ND (0.1)J	2060	3.09	353	0.703	50.0	ND (5.0)	50.0	ND (0.5)
CW-02D	5/4/2007	8410	8.08 J	5250	0.26 J	2660	1.29	526	1.96	42.0	ND (5.0)	42.0	ND (0.5)
CW-03M	5/2/2007 (FD)	8620	7.77 J	5900	ND (0.1)	2730	3.58	398	0.617	46.0	ND (5.0)	46.0	ND (1.0)
CW-03M	5/2/2007	8470	7.78 J	5730	0.124	2900	3.47	401	0.648	45.0	ND (5.0)	45.0	ND (0.5)
CW-03D	5/2/2007	11400	7.99 J	7710	0.128	3700	5.05	594	1.21	37.0	ND (5.0)	37.0	ND (0.5)
CW-04M	5/1/2007	5720	7.86 J	3460	ND (0.1)	1780	2.27	289	1.00	55.0	ND (5.0)	55.0	ND (0.5)
CW-04D	5/1/2007	10500	7.97 J	6700	ND (0.1)	3260	4.55	569	1.28	36.5	ND (5.0)	36.5	ND (0.5)
OW-01S	1/24/2007	2070 J	7.63	1310	1.02	590	2.54	128	3.15	---	---	---	---
OW-01S	5/1/2007	2380	7.69 J	1410	0.96	733	2.35	141	1.68	70.0	ND (5.0)	70.0	ND (0.5)
OW-01M	1/25/2007	6150 J	7.71 R	3890	ND (1.0)	1970	1.96	464	2.43	---	---	---	---
OW-01M	5/1/2007	6540	7.72 J	3860	0.119	2120	1.87	471	1.41	70.0	ND (5.0)	70.0	ND (0.5)
OW-01D	1/25/2007	6040 J	7.75 R	4000	5.14	1980	2.65	465	2.23	---	---	---	---
OW-01D	5/2/2007	6610	7.81 J	4080	0.18	1990	3.06	454	2.70	62.5	ND (5.0)	62.5	ND (0.5)
OW-02S	1/24/2007 (FD)	1610 J	7.82	1000	1.55	411	4.66	121	3.80	---	---	---	---
OW-02S	1/24/2007	1680 J	7.62	955	2.56	416	4.60	122	3.93	---	---	---	---
OW-02S	4/30/2007	1780	8.01 J	985	0.46	474 J	5.23	131 J	3.19	103	ND (5.0)	103	ND (0.5)
OW-02M	1/24/2007	5740 J	7.50	4040	ND (1.0)	1980	1.99	466	2.62	---	---	---	---
OW-02M	4/30/2007	6580	7.82 J	3960	0.13	2160 J	1.82	501 J	1.94	55.0	ND (5.0)	55.0	ND (0.5)
OW-02D	1/24/2007	6140 J	7.61	3880	ND (1.0)	2060	1.72	475	2.89	---	---	---	---
OW-02D	4/30/2007	6500	7.80 J	3790	ND (0.1)	2120 J	1.88	490 J	2.55	80.0	ND (5.0)	80.0	ND (0.5)
OW-05S	1/25/2007	1450 J	7.96 R	920	4.28	375	2.57	110	3.80	---	---	---	---
OW-05S	4/30/2007	1760	7.82 J	983	1.94	480	2.82	114 J	2.58	87.5	ND (5.0)	87.5	ND (0.5)
OW-05M	1/25/2007	6090 J	7.83 R	4100	1.06	2010	3.15	467	2.50	---	---	---	---
OW-05M	4/30/2007 (FD)	6940	7.83 J	4200	0.116	2260 J	2.72	526 J	1.28 J	75.0	ND (5.0)	75.0	ND (0.5)
OW-05M	4/30/2007	6980	7.81 J	4260	0.16	2250 J	2.56	526 J	2.10 J	70.0	ND (5.0)	70.0	ND (0.5)
OW-05D	1/25/2007	6080 J	7.72 R	4060	ND (1.0)	2060	1.86	477	2.70	---	---	---	---
OW-05D	5/1/2007	6480	7.74 J	3840	ND (0.1)	1840	1.73	424	1.46	80.0	ND (5.0)	80.0	ND (0.5)

TABLE 4

Other Inorganic Results for Groundwater Samples, First and Second Quarter 2007

PG&E Topock Compliance Monitoring Program

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

Observation wells are sampled for a limited suite of constituents during quarterly events starting with the first quarter 2007 event, per DTSC's January 2007 letter.

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	4/4/2007	ND(0.001)	ND(0.001)	2.03	0.0185	2.52	221	3940
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 (treated water).

Total chromium samples were analyzed with methods SW6010B, SW6020A, and E200.7 (treated water). Total chromium samples of the treated water were unfiltered.

TABLE 6

Treated Water Quality Compared to First and Second Quarter 2007 Sampling Event Water Quality
PG&E Topock Compliance Monitoring Program

Location ID	Sample Date	Hexavalent Chromium (mg/L)	Dissolved Chromium (mg/L)	Fluoride (mg/L)	Dissolved Molybdenum (mg/L)	Nitrate/Nitrite as Nitrogen (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
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
Treated Water	4/4/2007	ND (0.001)	ND (0.001)	2.03	0.0185	2.52	221	3940
CW-01M	5/2/2007	0.0069	0.00808	3.27	0.0216	1.83	416	4130
CW-01D	5/2/2007	ND (0.001)	ND (0.001)	4.44	0.0129	2.19	466	4650
CW-02M	5/4/2007	0.0153	0.016	3.09	0.0229	0.703	353	4030
CW-02D	5/4/2007	0.0018	0.00431	1.29	0.0732	1.96	526	5250
CW-03M	5/2/2007	0.0114	0.0112	3.47	0.0214	0.648	401	5730
CW-03M	5/2/2007 (FD)	0.0114	0.0114	3.58	0.021	0.617	398	5900
CW-03D	5/2/2007	0.0047	0.00495	5.05	0.0605	1.21	594	7710
CW-04M	5/1/2007	0.0208	0.0218	2.27	0.0113	1	289	3460
CW-04D	5/1/2007	0.0028	0.0036	4.55	0.0425	1.28	569	6700
OW-01S	1/24/2007	0.0201	0.0188	2.54	0.009	3.15	128	1310
OW-01S	5/1/2007	0.018	0.02	2.35	0.00845	1.68	141	1410
OW-01M	1/25/2007	ND (0.001)	0.0015	1.96	0.0108	2.43	464	3890
OW-01M	5/1/2007	0.00075	0.00131	1.87	0.00883	1.41	471	3860
OW-01D	1/25/2007	ND (0.001)	ND (0.001)	2.65	0.0176	2.23	465	4000
OW-01D	5/2/2007	ND (0.001)	0.00175	3.06	0.0141	2.7	454	4080
OW-02S	1/24/2007	0.0372	0.0388	4.6	0.0425	3.93	122	955
OW-02S	1/24/2007 (FD)	0.0371	0.0384	4.66	0.0407	3.8	121	1000
OW-02S	4/30/2007	0.035	0.0374	5.23	0.04	3.19	131 J	985
OW-02M	1/24/2007	0.0024	0.0029	1.99	0.0117	2.62	466	4040
OW-02M	4/30/2007	0.0015	0.0025	1.82	0.0114	1.94	501 J	3960
OW-02D	1/24/2007	ND (0.0002)	ND (0.001)	1.72	0.0121	2.89	475	3880
OW-02D	4/30/2007	0.00029	ND (0.001)	1.88	0.013	2.55	490 J	3790
OW-05S	1/25/2007	0.0278	0.0285	2.57	0.0294	3.8	110	920
OW-05S	4/30/2007	0.0241	0.0256	2.82	0.0226	2.58	114 J	983
OW-05M	1/25/2007	ND (0.0002)	0.0015	3.15	0.0179	2.5	467	4100
OW-05M	4/30/2007 (FD)	0.00036	0.00125	2.72	0.0129	1.28 J	526 J	4200
OW-05M	4/30/2007	0.00035	ND (0.001)	2.56	0.0127	2.1 J	526 J	4260
OW-05D	1/25/2007	ND (0.0002)	ND (0.001)	1.86	0.014	2.7	477	4060
OW-05D	5/1/2007	ND (0.0002)	ND (0.001)	1.73	0.0147	1.46	424	3840

TABLE 6

Treated Water Quality Compared to First and Second Quarter 2007 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

Hexavalent chromium samples were analyzed with methods SW7199 and E218.6 (treated water)

Total chromium samples were analyzed with methods SW6010B, SW6020A, E200.7 (treated water), and E200.8 (treated water). Total chromium and molybdenum samples of the treated water were unfiltered.

Molybdenum samples were analyzed with methods SW6020A and E200.8.

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

Nitrate/Nitrite as Nitrogen samples were analyzed with methods E353.3 and E300.0.

Total Dissolved Solid samples were analyzed with methods E160.1 and SM2540C.

TABLE 7

Manual Water Level Measurements and Elevations, First and Second Quarter 2007

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	190.0	566.07	02-May-07	6:41 AM	108.85	0.40	457.13
CW-01D	300.2	566.46	02-May-07	7:48 AM	108.80	0.45	457.45
CW-02M	202.0	549.45	04-May-07	5:23 AM	92.40	0.39	456.95
CW-02D	355.0	549.43	04-May-07	6:35 AM	91.84	0.93	458.21
CW-03M	222.0	534.10	02-May-07	9:42 AM	77.15	0.50	456.89
CW-03D	340.0	534.14	02-May-07	8:24 AM	77.05	0.97	457.86
CW-04M	169.8	518.55	01-May-07	7:55 AM	61.23	0.35	457.17
CW-04D	303.0	518.55	01-May-07	6:39 AM	61.18	0.91	458.01
OW-01S	113.5	550.15	24-Jan-07	1:03 PM	94.65	0.12	455.44
			01-May-07	10:53 AM	93.10	0.12	456.98
OW-01M	185.8	550.36	25-Jan-07	8:24 AM	94.83	0.45	455.47
			01-May-07	11:35 AM	93.19	0.45	457.10
OW-01D	277.0	550.36	25-Jan-07	7:08 AM	94.23	0.50	456.08
			02-May-07	5:15 AM	92.58	0.50	457.76
OW-02S	121.0	548.75	24-Jan-07	8:40 AM	93.36	0.11	455.30
			30-Apr-07	7:53 AM	91.75	0.11	456.90
OW-02M	210.3	548.52	24-Jan-07	10:14 AM	92.82	0.45	455.59
			30-Apr-07	9:12 AM	91.30	0.45	457.12
OW-02D	340.0	549.01	24-Jan-07	11:38 AM	92.28	0.51	456.67
			30-Apr-07	10:13 AM	91.03	0.51	457.93
OW-05S	110.3	551.75	25-Jan-07	11:40 AM	96.00	0.11	455.70
			30-Apr-07	11:39 AM	94.60	0.11	457.09
OW-05M	250.3	551.75	25-Jan-07	10:45 AM	95.30	0.45	456.36
			30-Apr-07	12:46 PM	93.95	0.45	457.69
OW-05D	350.0	552.35	25-Jan-07	9:32 AM	95.38	0.51	456.92
			01-May-07	9:12 AM	94.00	0.51	458.28

Notes:

AMSL above mean sea level

BTOC below top of polyvinyl chloride (PVC) casing

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

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	0.0012
CW-02D to CW-02M	0.0090
CW-03D to CW-03M	0.0102
CW-04D to CW-04M	0.0064
OW-01M to OW-01S	0.0010
OW-01D to OW-01M	0.0073
OW-02M to OW-02S	0.0008
OW-02D to OW-02M	0.0084

^a Positive value signifies an upward gradient.

Gradients calculated using April 15 through May 15, 2007
 average groundwater levels.

TABLE 9

Field Parameter Measurements for Groundwater Samples, First and Second Quarter 2007

PG&E Topock Compliance Monitoring Program

Location ID	Sampling Date	Specific Conductance ($\mu\text{S}/\text{cm}$)	Temperature ($^{\circ}\text{C}$)	pH (pH units)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Salinity (%)
CW-01M	5/2/2007	8770	29.9	7.87	80	6.44	0.1	0.5
CW-01D	5/2/2007	8630	30.7	7.82	61	7.5	0.1	0.5
CW-02M	5/4/2007	16800	29.66	7.73	12	2.46	0.1	1.1
CW-02D	5/4/2007	17100	30.73	7.93	44	5.6	0.6	1
CW-03M	5/2/2007	11200	30	7.7	-54	2.79	0.1	0.6
CW-03D	5/2/2007	14400	30.6	7.91	-15	4.09	0.1	0.8
CW-04M	5/1/2007	5540	29.76	7.5	17	3.79	0.1	0.3
CW-04D	5/1/2007	12300	30.46	7.65	-13	4.21	0.1	0.7
OW-01S	1/24/2007	1650	27.72	7.6	56	6.47	4	0.08
OW-01S	5/1/2007	2230	29.65	7.44	47	6.54	2.8	0.1
OW-01M	1/25/2007	6050	29.32	7.54	52	7.69	2.2	0.32
OW-01M	5/1/2007	6250	30.28	7.41	83	7.59	0.2	0.3
OW-01D	1/25/2007	6130	28.5	7.71	31	7.28	9.1	0.33
OW-01D	5/2/2007	8320	30.1	7.79	77	7.74	0.5	0.5
OW-02S	1/24/2007	1640	25.59	7.79	109	9.55	5	0.08
OW-02S	4/30/2007	2420	29.75	7.76	58	8.23	1.2	0.1
OW-02M	1/24/2007	6090	29.7	7.5	66	7.47	2	0.32
OW-02M	4/12/2007	9550	30.7	7.92	111	8.23	1.4	0.5
OW-02M	4/30/2007	15100	30.49	7.56	45	7.78	0.2	0.9
OW-02D	1/24/2007	6280	29.28	7.57	74	7.79	2	0.34
OW-02D	4/30/2007	11200	29.37	7.65	46	7.83	0.2	0.6
OW-05S	1/25/2007	1360	29.19	7.7	77	7.79	8.9	0.06
OW-05S	4/30/2007	2120	30.1	7.66	119	7.65	5.6	0.1
OW-05M	1/25/2007	6080	29.52	7.66	67	8.88	3.3	0.32
OW-05M	4/30/2007	8070	29.5	7.68	52	8.53	0.3	0.4
OW-05D	1/25/2007	6230	28.11	7.5	318	7.61	2.1	0.33
OW-05D	5/1/2007	6190	28.72	7.37	79	7.25	0.1	0.3

Notes:

 $\mu\text{S}/\text{cm}$ microSiemens per centimeter $^{\circ}\text{C}$ 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, First and Second Quarter 2007

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-012	Shawn Duffy	5/2/2007	1:20:00 PM	TLI	EPA 120.1	SC	5/9/2007	Tina Acquit
					TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/9/2007	Tina Acquit
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquit
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2007

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-012	Shawn Duffy	5/2/2007	1:20:00 PM	EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
CW-01M	CW-01M-012	Shawn Duffy	5/2/2007	8:20:00 AM	TLI	SW 7199	CR6	5/3/2007	David Blackburn
					TLI	EPA 120.1	SC	5/9/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/9/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquiat
					EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott

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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-01M	CW-01M-012	Shawn Duffy	5/2/2007	8:20:00 AM	EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					TLI	SW 7199	CR6	5/2/2007	David Blackburn
CW-02D	CW-02D-012	Shawn Duffy	5/4/2007	8:40:00 AM	TLI	EPA 120.1	SC	5/10/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/7/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/15/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/5/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/15/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/11/2007	Supakit

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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-02D	CW-02D-012	Shawn Duffy	5/4/2007	8:40:00 AM	EMXT	EPA 310.1	ALKC	5/11/2007	Supakit
					EMXT	EPA 310.1	ALKT	5/11/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/11/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/14/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/10/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/4/2007	Kim Luck
					EMXT	SW 6020A	MND	5/20/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/20/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/20/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/20/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/18/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/18/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/20/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/20/2007	Jon Elliott

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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-02D	CW-02D-012	Shawn Duffy	5/4/2007	8:40:00 AM	EMXT	SW 6020A	COBD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/20/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/20/2007	Jon Elliott
					TLI	SW 7199	CR6	5/4/2007	Jean Paul Gleeson
CW-02M	CW-02M-012	Shawn Duffy	5/4/2007	7:20:00 AM	TLI	EPA 120.1	SC	5/10/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/7/2007	Gautam Savani
					TLI	EPA 300.0	SO4	5/15/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/15/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/5/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/11/2007	Supakit
					EMXT	EPA 310.1	ALKB	5/11/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/11/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/11/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/14/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/10/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/4/2007	Kim Luck
					EMXT	SW 6020A	VD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/18/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/19/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/19/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/19/2007	Jon Elliott

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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-012	Shawn Duffy	5/4/2007	7:20:00 AM	EMXT	SW 6020A	ZND	5/19/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/19/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/19/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/19/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/18/2007	Jon Elliott
					TLI	SW 7199	CR6	5/4/2007	Jean Paul Gleeson
CW-03D	CW-03D-012	Shawn Duffy	5/2/2007	10:20:00 AM	TLI	EPA 120.1	SC	5/9/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-03D	CW-03D-012	Shawn Duffy	5/2/2007	10:20:00 AM	TLI	SM2540C	TDS	5/9/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquiat
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					TLI	SW 7199	CR6	5/3/2007	David Blackburn
CW-03M	MW-91-012	Shawn Duffy	5/2/2007	11:30:00 AM	TLI	EPA 120.1	SC	5/9/2007	Tina Acquiat

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-03M	MW-91-012	Shawn Duffy	5/2/2007	11:30:00 AM	TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/9/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquiat
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott

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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	MW-91-012	Shawn Duffy	5/2/2007	11:30:00 AM	EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					TLI	SW 7199	CR6	5/3/2007	David Blackburn
CW-03M	CIS-001	Shawn Duffy	5/2/2007	11:35:00 AM	TLI	EPA 120.1	SC	5/9/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	5/3/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 351.3	TKN	5/10/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 370.1	SILC	5/7/2007	Jadelyn Chun
					EMXT	EPA 376.1	SO2	5/9/2007	Romy Marasigan
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/9/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquiat

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-03M	CIS-001	Shawn Duffy	5/2/2007	11:35:00 AM	TLI	SM5310C	TOC	5/10/2007	Hope Trinidad
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					TLI	SW 7199	CR6	5/3/2007	David Blackburn
CW-04D	CW-04D-012	Shawn Duffy	5/1/2007	8:40:00 AM	TLI	EPA 120.1	SC	5/3/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/2/2007	Gautam Savani

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
CW-04D	CW-04D-012	Shawn Duffy	5/1/2007	8:40:00 AM	TLI	EPA 300.0	SO4	5/21/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/10/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/21/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKB	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKC	5/4/2007	Chris Capulong
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/8/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/4/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/2/2007	Tina Acquiat
					EMXT	SW 6020A	MND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/12/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/12/2007	Jon Elliott

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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-012	Shawn Duffy	5/1/2007	8:40:00 AM	EMXT	SW 6020A	SED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/12/2007	Jon Elliott
					TLI	SW 7199	CR6	5/2/2007	Jean Paul Gleeson
CW-04M	CIS-007	Shawn Duffy	5/1/2007	9:35:00 AM	TLI	EPA 120.1	SC	5/3/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/2/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/7/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/3/2007	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	5/3/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/7/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKB	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKC	5/4/2007	Chris Capulong
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 351.3	TKN	5/5/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 370.1	SILC	5/7/2007	Jadelyn Chun
					EMXT	EPA 376.1	SO2	5/5/2007	Romy Marasigan
					EMXT	EPA 6010B	FET	5/8/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/4/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/2/2007	Tina Acquiat
					TLI	SM5310C	TOC	5/3/2007	Hope Trinidad

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
CW-04M	CIS-007	Shawn Duffy	5/1/2007	9:35:00 AM	EMXT	SW 6020A	FETD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/12/2007	Jon Elliott
					TLI	SW 7199	CR6	5/2/2007	Jean Paul Gleeson
OW-01D	OW-01D-011	Barry Collom	1/25/2007	9:05:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	2/15/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang

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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-011	Barry Collom	1/25/2007	9:05:00 AM	EMXT	EPA 180.1	TRB	1/26/2007	Romy Marasigan
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/25/2007	Faisal Raihan
OW-01D	OW-01D-012	Shawn Duffy	5/2/2007	7:25:00 AM	TLI	EPA 120.1	SC	5/9/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/4/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/8/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/17/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/8/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKC	5/8/2007	Supakit
					EMXT	EPA 310.1	ALKB	5/8/2007	Supakit
					EMXT	EPA 350.2	NH3N	5/9/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/9/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/9/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/9/2007	Neol Tan
					TLI	SM2540C	TDS	5/9/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/3/2007	Tina Acquiat
					EMXT	SW 6020A	CRTD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/17/2007	Jon Elliott

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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-012	Shawn Duffy	5/2/2007	7:25:00 AM	EMXT	SW 6020A	NAD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/17/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/16/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/17/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/17/2007	Jon Elliott
					TLI	SW 7199	CR6	5/2/2007	David Blackburn
OW-01M	OW-01M-011	Barry Collom	1/25/2007	10:06:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	2/15/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/26/2007	Romy Marasigan
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	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-01M	OW-01M-011	Barry Collom	1/25/2007	10:06:00 AM	TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/25/2007	Faisal Raihan
OW-01M	OW-01M-012	Shawn Duffy	5/1/2007	1:10:00 PM	TLI	EPA 120.1	SC	5/3/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/2/2007	Gautam Savani
					TLI	EPA 300.0	FL	5/10/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/21/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/21/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKC	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKT	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKB	5/4/2007	Chris Capulong
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/8/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/4/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/2/2007	Tina Acquiat
					EMXT	SW 6020A	FETD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/12/2007	Jon Elliott

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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-012	Shawn Duffy	5/1/2007	1:10:00 PM	EMXT	SW 6020A	CUD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/12/2007	Jon Elliott
					TLI	SW 7199	CR6	5/2/2007	Jean Paul Gleeson
OW-01S	OW-01S-011	Barry Collom	1/24/2007	10:38:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	1/25/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/25/2007	Romy Marasigan
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/24/2007	Stanley Hsieh

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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-012	Shawn Duffy	5/1/2007	12:20:00 PM	TLI	EPA 120.1	SC	5/3/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/2/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/21/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/10/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/21/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKB	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKC	5/4/2007	Chris Capulong
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/8/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/4/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/2/2007	Tina Acquiat
					EMXT	SW 6020A	AGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/12/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/12/2007	Jon Elliott

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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-012	Shawn Duffy	5/1/2007	12:20:00 PM	EMXT	SW 6020A	SBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/12/2007	Jon Elliott
OW-02D	OW-02D-011	Barry Collom	1/24/2007	1:48:00 PM	TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
					EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	1/25/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/25/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/24/2007	Stanley Hsieh
OW-02D	OW-02D-012	Shawn Duffy	4/30/2007	12:15:00 PM	TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa

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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-012	Shawn Duffy	4/30/2007	12:15:00 PM	TLI	EPA 300.0	FL	5/23/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott

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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-012	Shawn Duffy	4/30/2007	12:15:00 PM	EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-02M	OW-02M-011	Barry Collom	1/24/2007	12:03:00 PM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	1/25/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/25/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
OW-02M	OW-02M-011C	Barry Collom	4/12/2007	9:35:00 AM	TLI	EPA 150.1	PH	4/13/2007	Tina Acquiat
					TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
OW-02M	OW-02M-012	Shawn Duffy	4/30/2007	10:55:00 AM	TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/23/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang

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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-012	Shawn Duffy	4/30/2007	10:55:00 AM	EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott

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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-012	Shawn Duffy	4/30/2007	10:55:00 AM	EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-02S	OW-02S-011	Barry Collom	1/24/2007	10:38:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	1/25/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/25/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
OW-02S	MW-90-CMP-011	Barry Collom	1/24/2007	10:45:00 AM	TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/24/2007	Stanley Hsieh
					EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	1/25/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/25/2007	Romy Marasigan
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	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-02S	MW-90-CMP-011	Barry Collom	1/24/2007	10:45:00 AM	TLI	SW 7199	CR6	1/25/2007	Stanley Hsieh
OW-02S	CIS-011	Shawn Duffy	4/30/2007	9:45:00 AM	TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	5/2/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 351.3	TKN	5/5/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 370.1	SILC	5/7/2007	Jadelyn Chun
					EMXT	EPA 376.1	SO2	5/5/2007	Romy Marasigan
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					TLI	SM5310C	TOC	5/3/2007	Hope Trinidad
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott

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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	CIS-011	Shawn Duffy	4/30/2007	9:45:00 AM	EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-05D	OW-05D-011	Barry Collom	1/25/2007	11:30:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	2/15/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/26/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05D	OW-05D-011	Barry Collom	1/25/2007	11:30:00 AM	TLI	SW 7199	CR6	1/25/2007	Faisal Raihan
OW-05D	OW-05D-012	Shawn Duffy	5/1/2007	11:15:00 AM	TLI	EPA 120.1	SC	5/3/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/2/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/21/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/10/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/21/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKC	5/4/2007	Chris Capulong
					EMXT	EPA 310.1	ALKT	5/4/2007	Chris Capulong
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/8/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/4/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/2/2007	Tina Acquiat
					EMXT	SW 6020A	COBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/12/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/12/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/12/2007	Jon Elliott

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05D	OW-05D-012	Shawn Duffy	5/1/2007	11:15:00 AM	EMXT	SW 6020A	BAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/11/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/12/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/12/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-05M	OW-05M-011	Barry Collom	1/25/2007	11:54:00 AM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	2/15/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/26/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	EPA 6010B	CRTD	2/8/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/25/2007	Faisal Raihan
OW-05M	OW-05M-012	Shawn Duffy	4/30/2007	2:20:00 PM	TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	FL	5/23/2007	Giawad Ghenniwa

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05M	OW-05M-012	Shawn Duffy	4/30/2007	2:20:00 PM	TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05M	OW-05M-012	Shawn Duffy	4/30/2007	2:20:00 PM	EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-05M	CW-90-012	Shawn Duffy	4/30/2007	2:30:00 PM	TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	FL	5/23/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/8/2007	Jon Elliott

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05M	CW-90-012	Shawn Duffy	4/30/2007	2:30:00 PM	EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson
OW-05S	OW-05S-011	Barry Collom	1/25/2007	12:55:00 PM	EMXT	EPA 120.1	SC	3/7/2007	Tina Hoang
					TLI	EPA 150.1	PH	2/15/2007	Tina Acquiat
					EMXT	EPA 160.1	TDS	1/30/2007	Tina Hoang
					EMXT	EPA 180.1	TRB	1/26/2007	Romy Marasigan
					EMXT	EPA 300.0	SO4	1/29/2007	Jane Osorio
					EMXT	EPA 300.0	FL	1/27/2007	Jane Osorio
					EMXT	EPA 300.0	CL	1/29/2007	Jane Osorio
					EMXT	EPA 353.3	NO3NO2N	1/30/2007	Kam Ng
					TLI	EPA 6010B	CRTD	1/29/2007	Riddhi Patel

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Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
OW-05S	OW-05S-011	Barry Collom	1/25/2007	12:55:00 PM	TLI	EPA 6010B	BD	1/30/2007	Riddhi Patel
					TLI	SW 6020A	MOD	2/1/2007	Riddhi Patel
					TLI	SW 7199	CR6	1/25/2007	Faisal Raihan
OW-05S	CIS-018	Shawn Duffy	4/30/2007	1:10:00 PM	TLI	EPA 120.1	SC	5/2/2007	Tina Acquiat
					TLI	EPA 180.1	TRB	5/1/2007	Gautam Savani
					TLI	EPA 300.0	CL	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	FL	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	5/2/2007	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	5/2/2007	Giawad Ghenniwa
					EMXT	EPA 310.1	ALKB	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKC	5/5/2007	Tina Hoang
					EMXT	EPA 310.1	ALKT	5/5/2007	Tina Hoang
					EMXT	EPA 350.2	NH3N	5/8/2007	Jadelyn Chun
					EMXT	EPA 351.3	TKN	5/5/2007	Jadelyn Chun
					EMXT	EPA 353.3	NO3NO2N	5/7/2007	Tina Hoang
					EMXT	EPA 370.1	SILC	5/7/2007	Jadelyn Chun
					EMXT	EPA 376.1	SO2	5/5/2007	Romy Marasigan
					EMXT	EPA 6010B	FET	5/7/2007	Chris Capulong
					EMXT	EPA 7470A	HGD	5/7/2007	Neol Tan
					TLI	SM2540C	TDS	5/2/2007	Tina Acquiat
					TLI	SM4500-HB	PH	5/1/2007	Tina Acquiat
					TLI	SM5310C	TOC	5/3/2007	Hope Trinidad
					EMXT	SW 6020A	CRTD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	VD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ZND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	ALD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CUD	5/9/2007	Jon Elliott

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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-05S	CIS-018	Shawn Duffy	4/30/2007	1:10:00 PM	EMXT	SW 6020A	FETD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	COBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CDD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	AGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	SED	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BD	5/8/2007	Jon Elliott
					EMXT	SW 6020A	PBD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NID	5/9/2007	Jon Elliott
					EMXT	SW 6020A	NAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MOD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MND	5/9/2007	Jon Elliott
					EMXT	SW 6020A	MGD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	KD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	CAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BAD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	BED	5/8/2007	Jon Elliott
					EMXT	SW 6020A	ASD	5/9/2007	Jon Elliott
					EMXT	SW 6020A	TLD	5/9/2007	Jon Elliott
					TLI	SW 7199	CR6	5/1/2007	Jean Paul Gleeson

TABLE 10

Board Order No. R7-2006-0060 WDR Monitoring Information for Groundwater Samples, First and Second Quarter 2007

PG&E Topock Compliance Monitoring Program

NOTES:

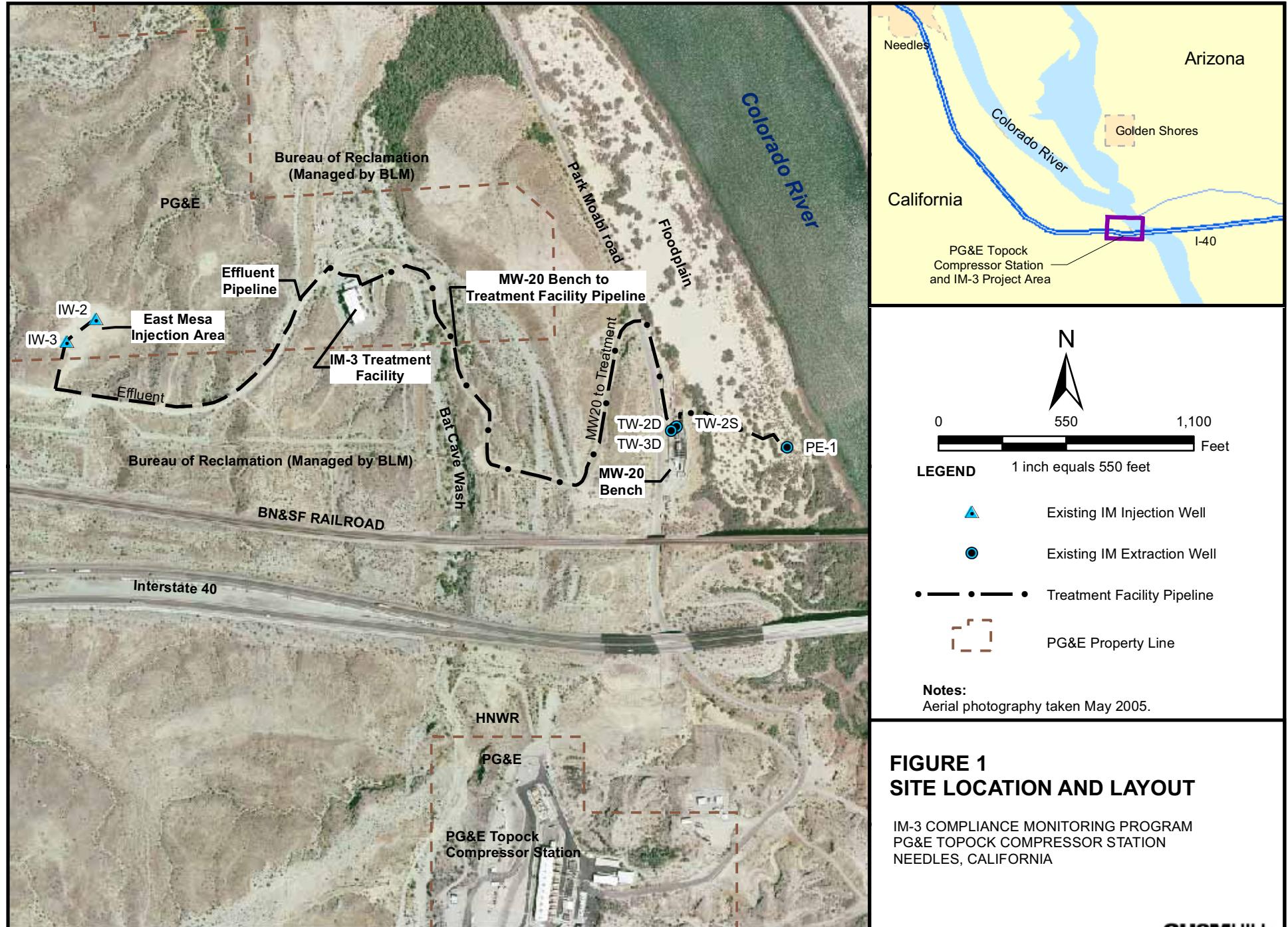
TLI Truesdail Laboratories, Inc.

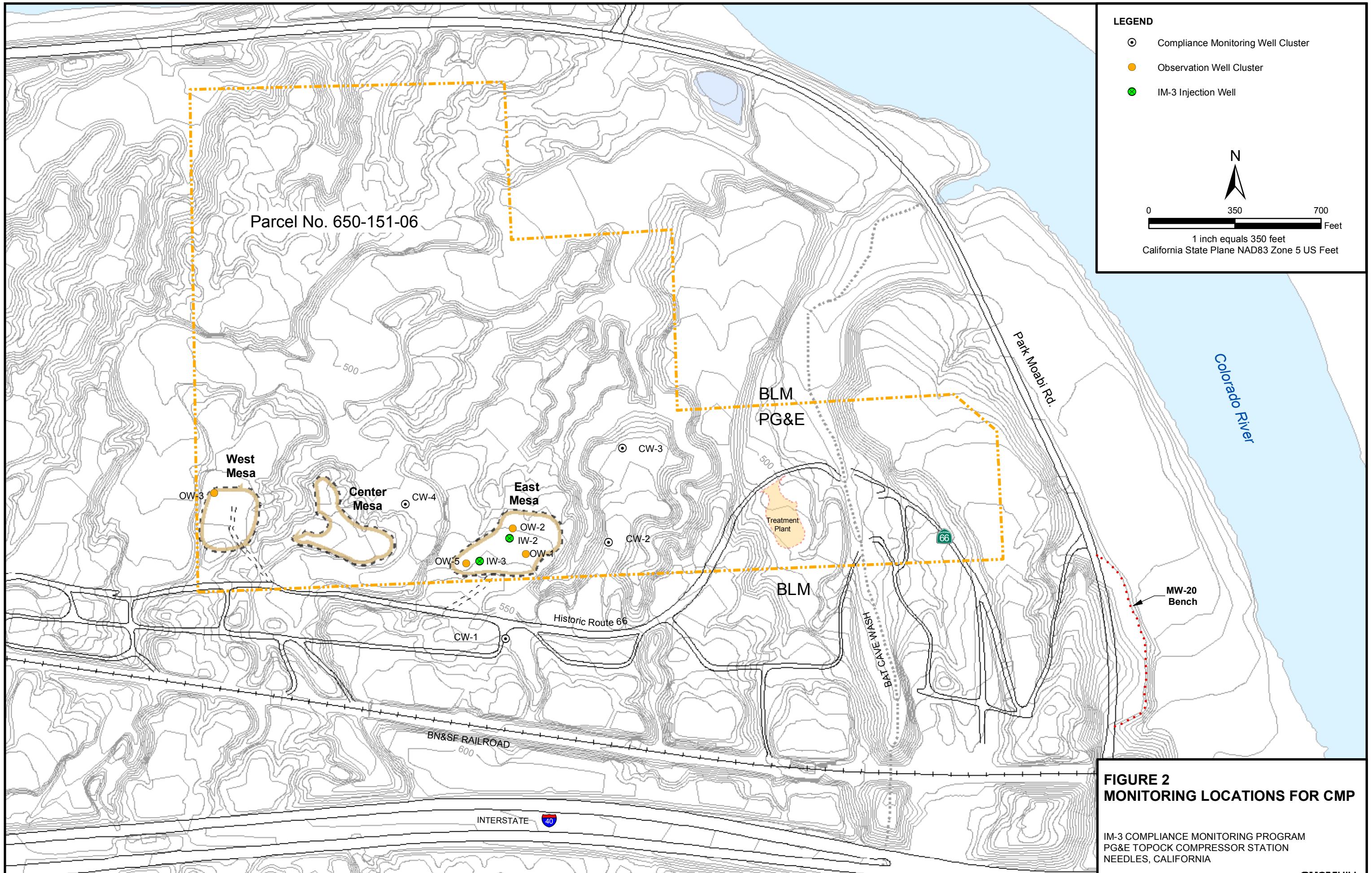
EMXT Emax Laboratories, Inc.

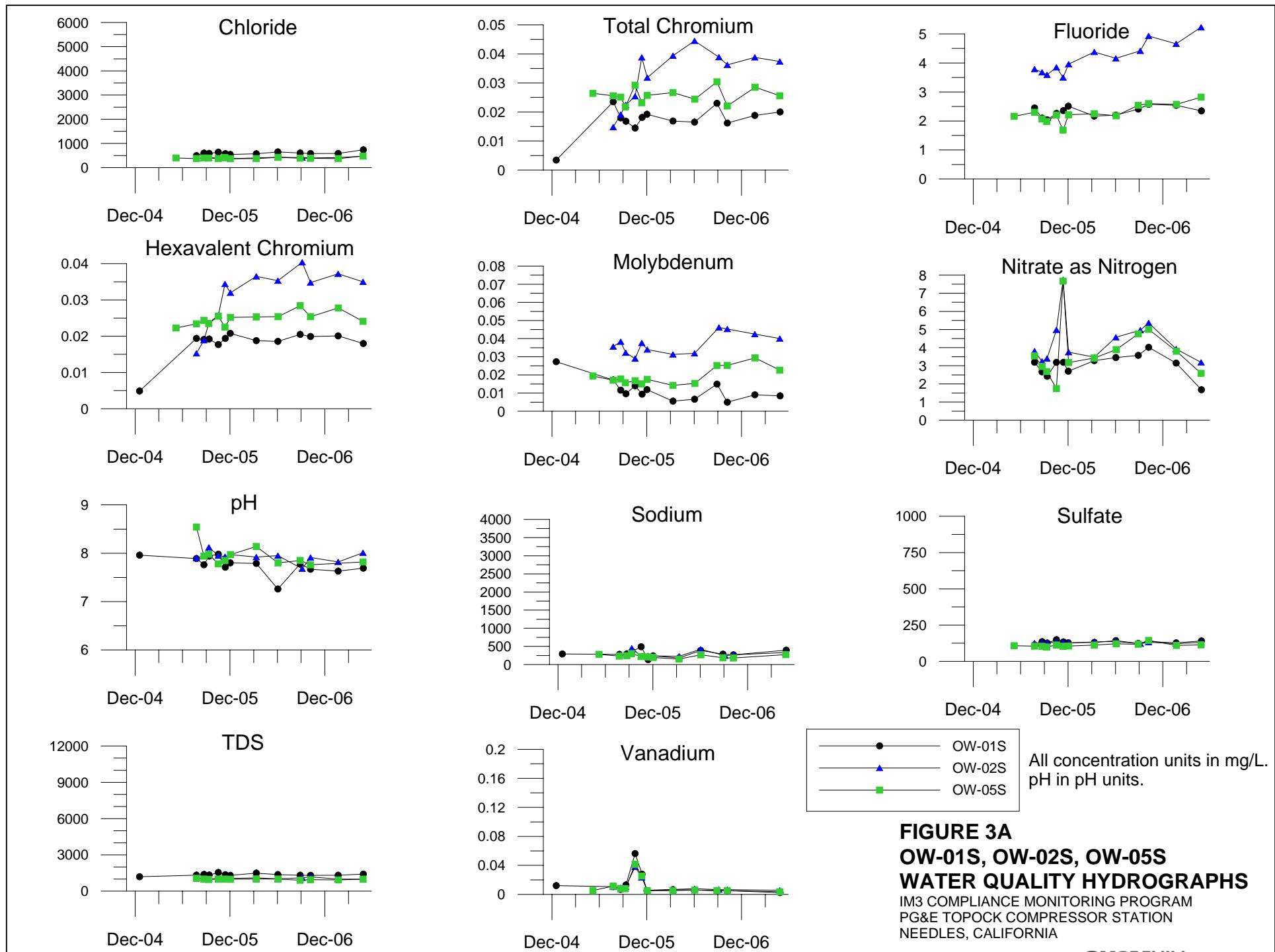
WDR Waste Discharge Requirements

SC	specific conductance	CAD	calcium, dissolved
PH	pH	MOD	molybdenum, dissolved
TDS	total dissolved solids	NID	
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







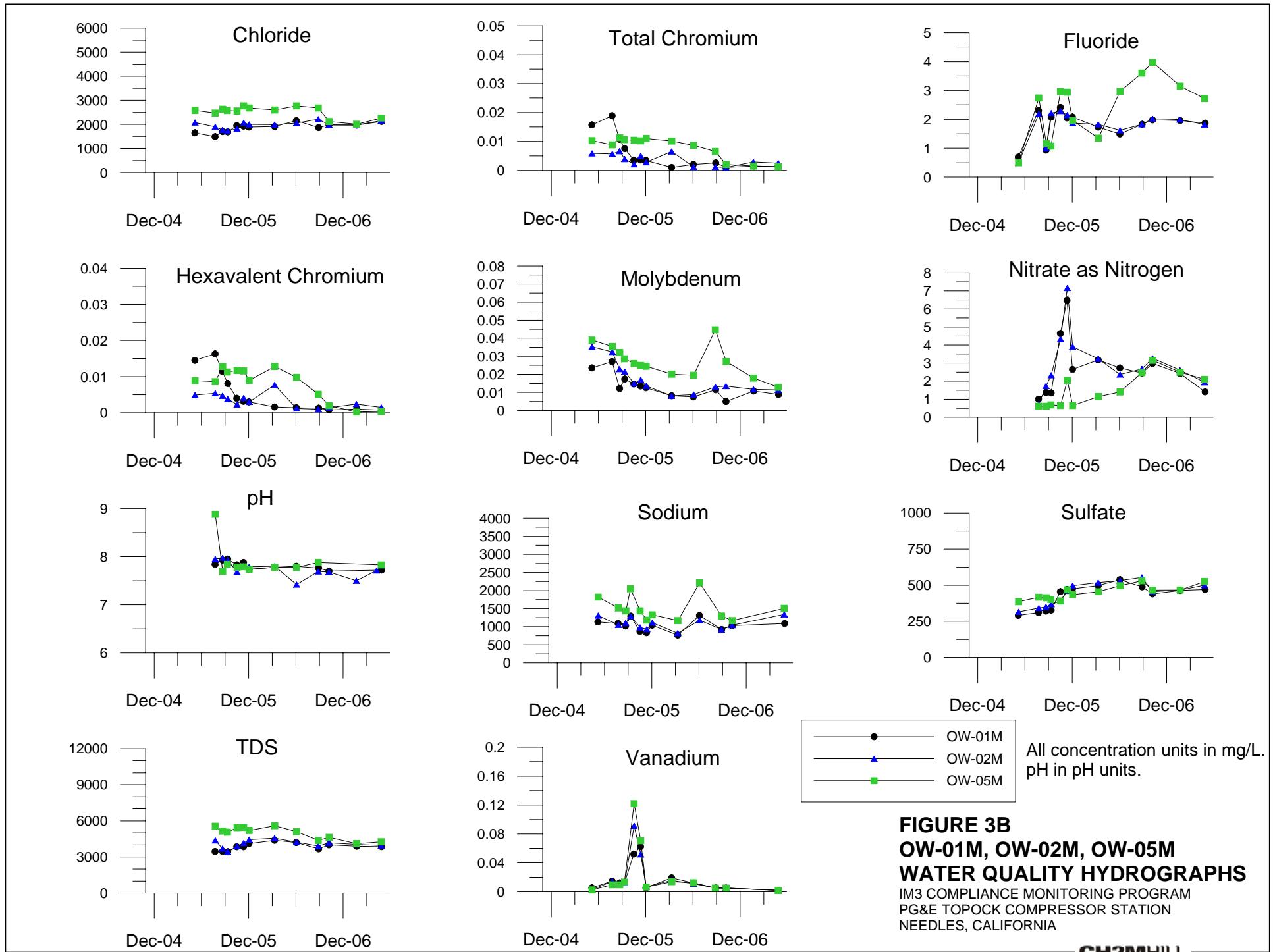


FIGURE 3B
OW-01M, OW-02M, OW-05M
WATER QUALITY HYDROGRAPHS

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

CH2MHILL

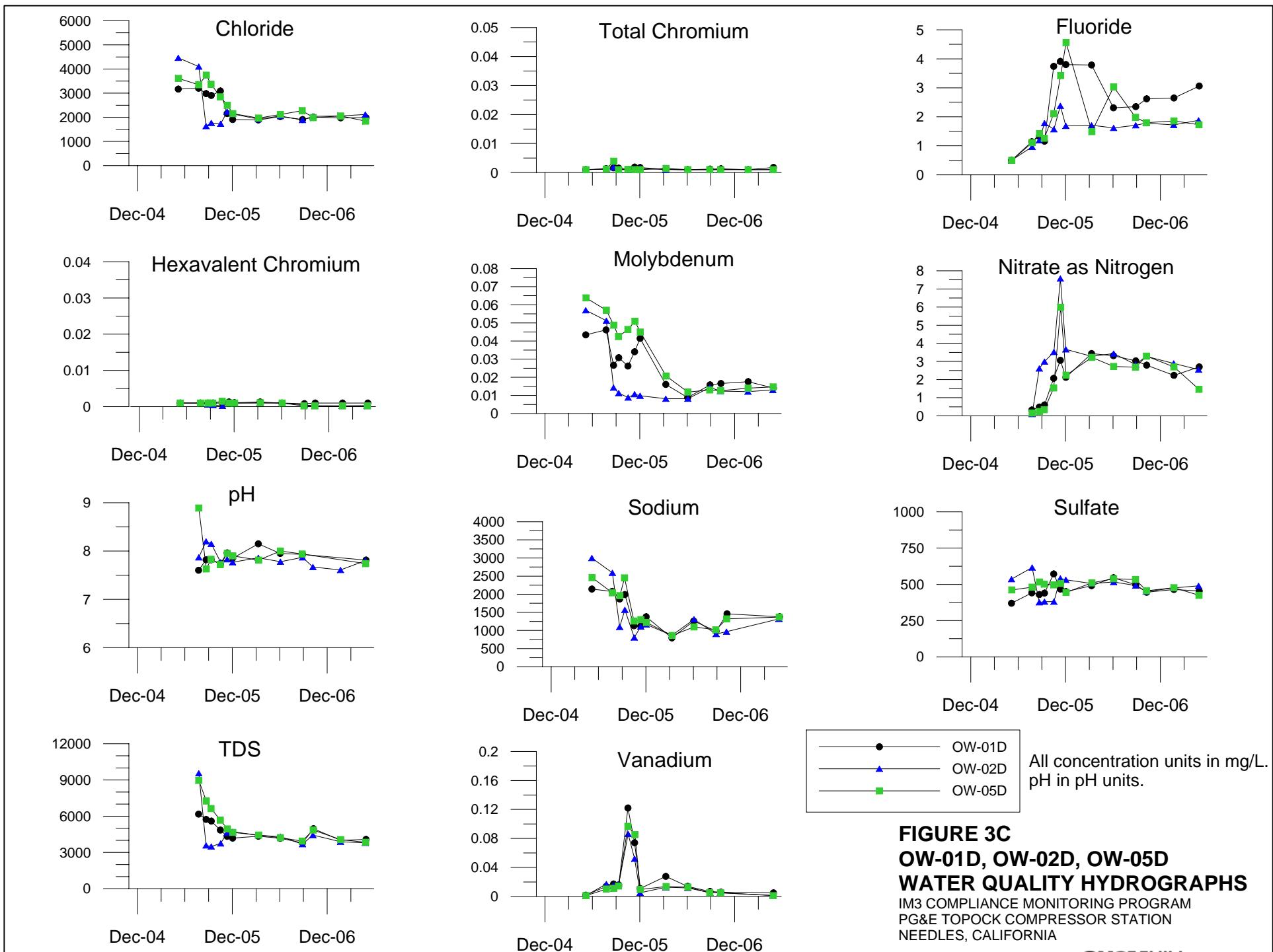


FIGURE 3C
OW-01D, OW-02D, OW-05D
WATER QUALITY HYDROGRAPHS

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

CH2MHILL

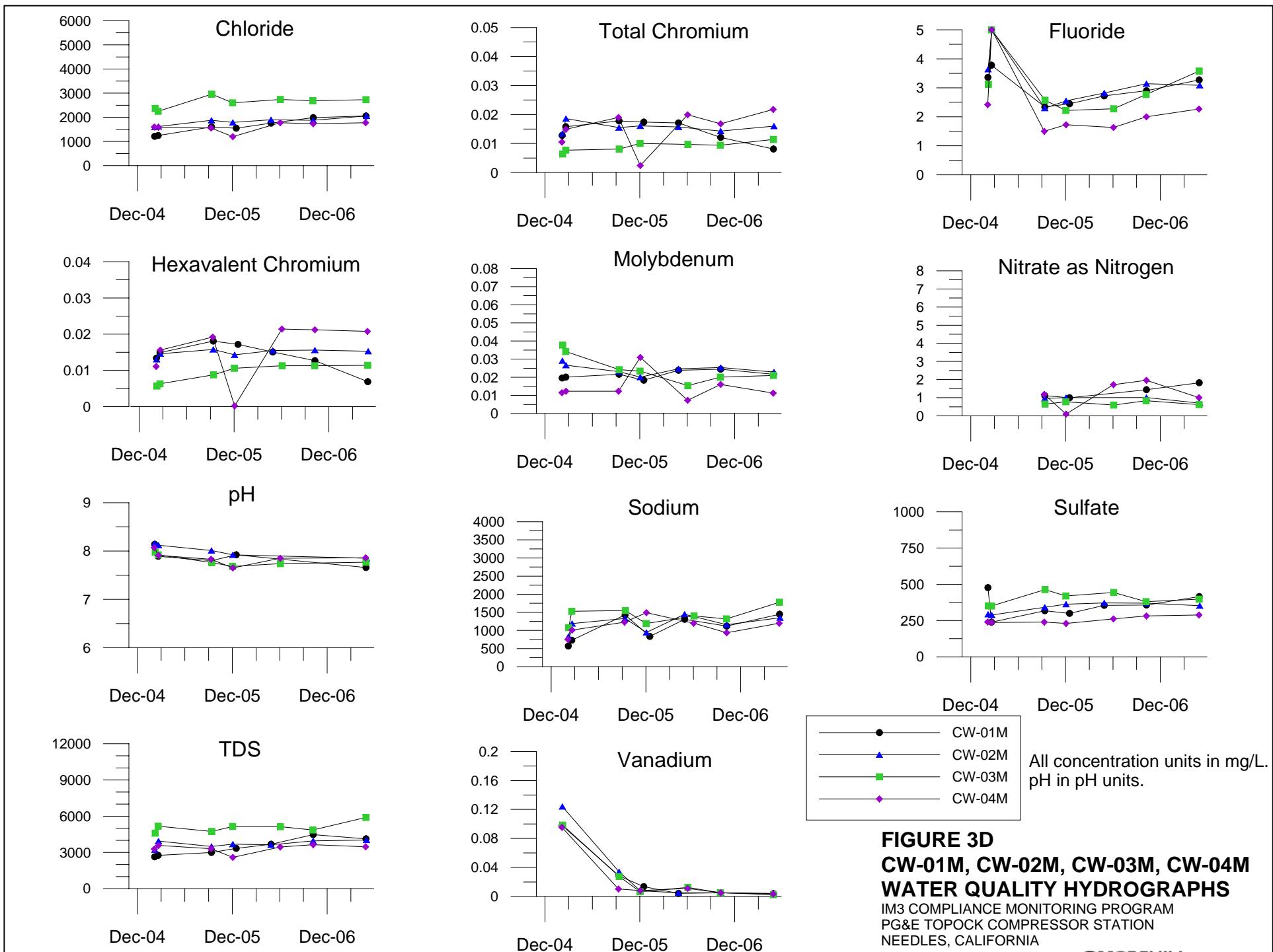


FIGURE 3D
CW-01M, CW-02M, CW-03M, CW-04M
WATER QUALITY HYDROGRAPHS

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

CH2MHILL

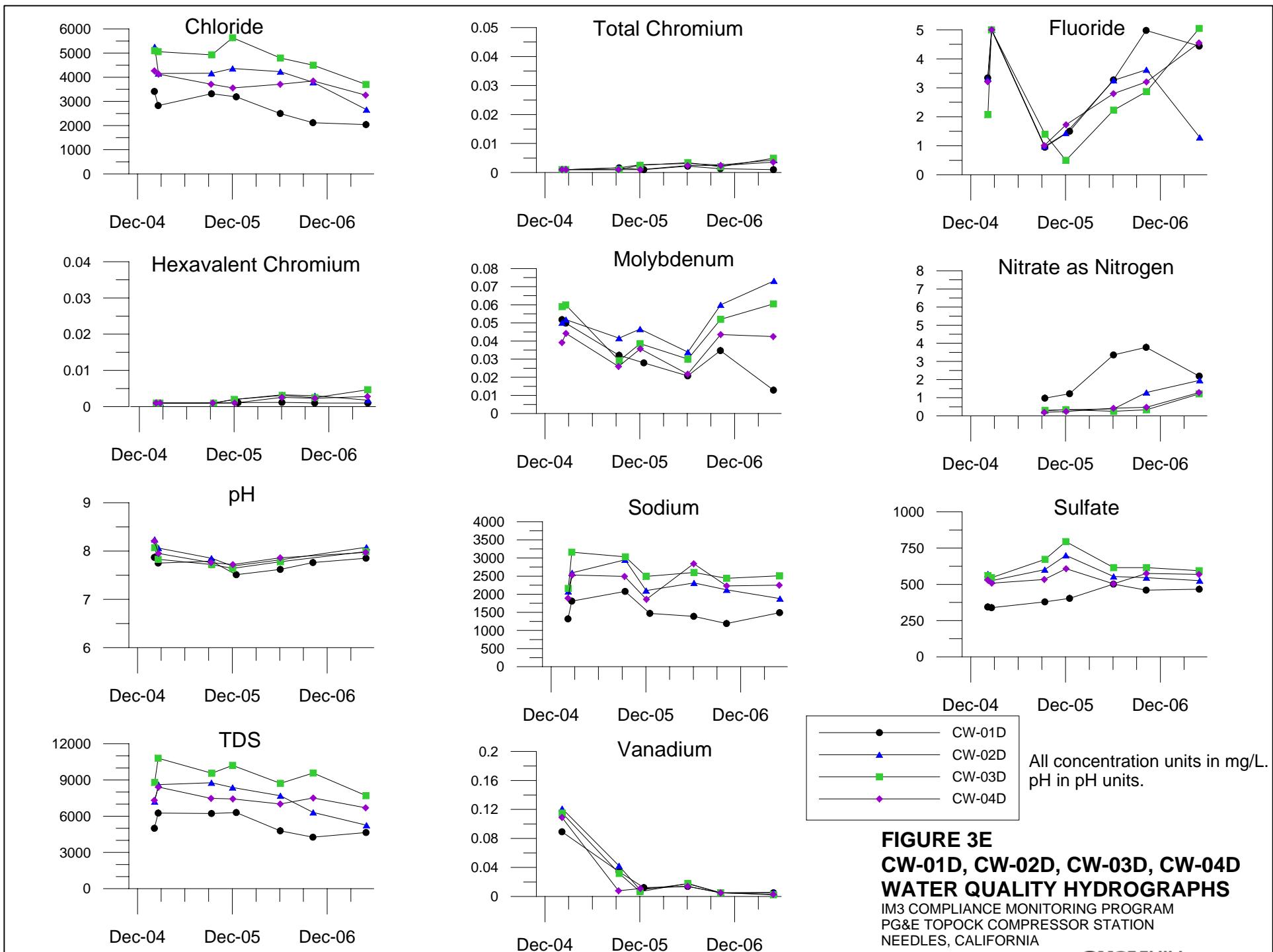
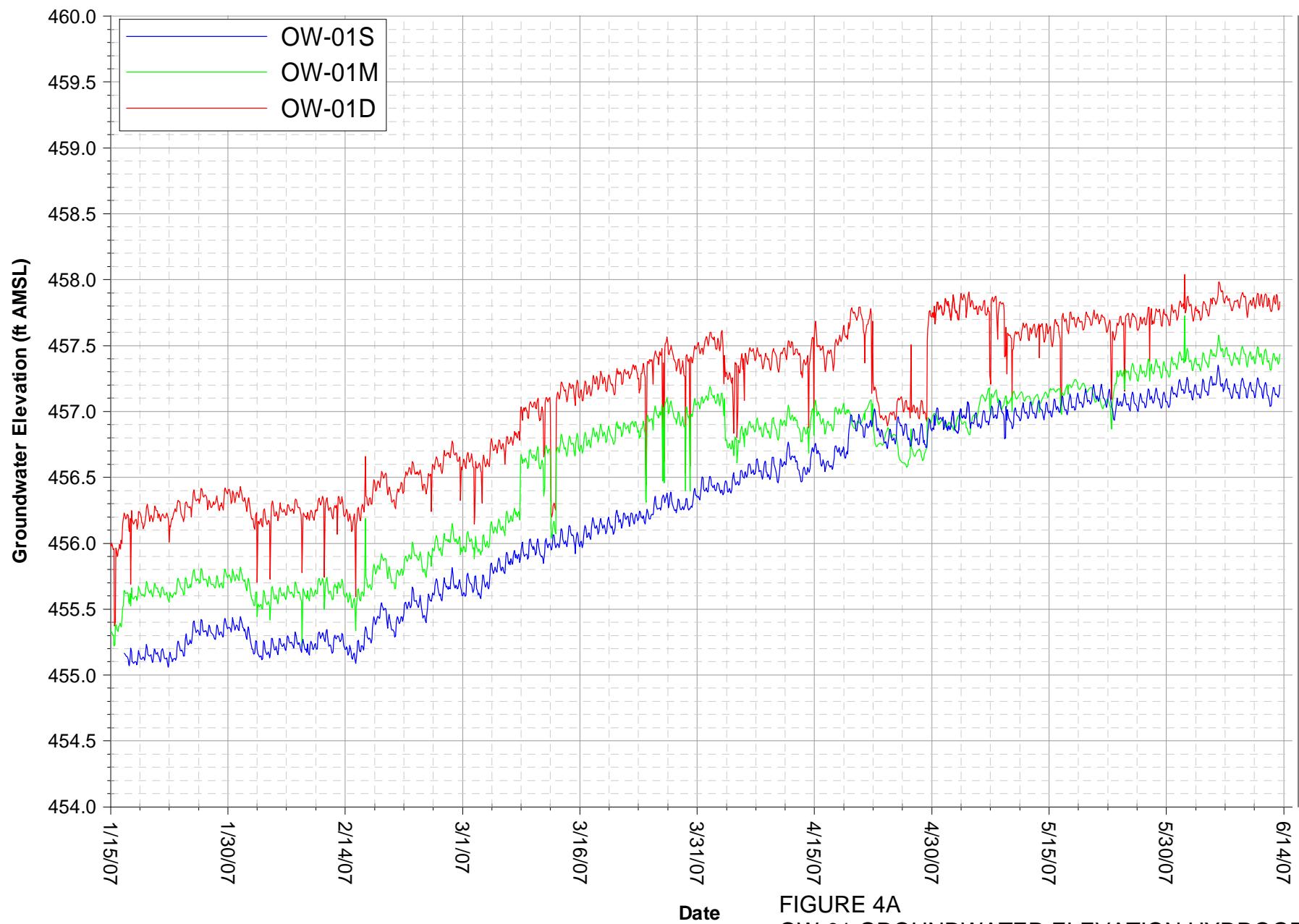


FIGURE 3E
CW-01D, CW-02D, CW-03D, CW-04D
WATER QUALITY HYDROGRAPHS

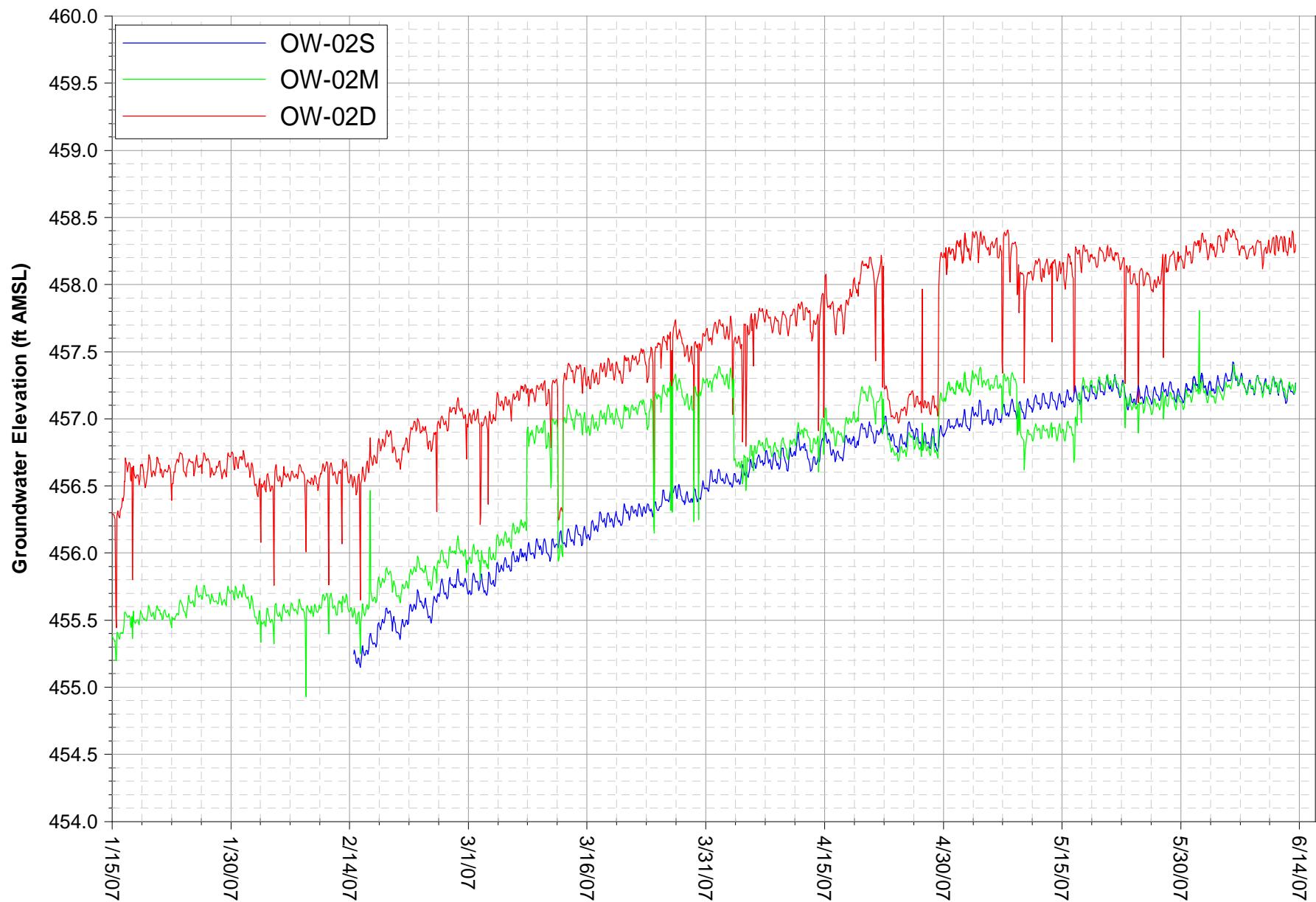
IM3 COMPLIANCE MONITORING PROGRAM
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL



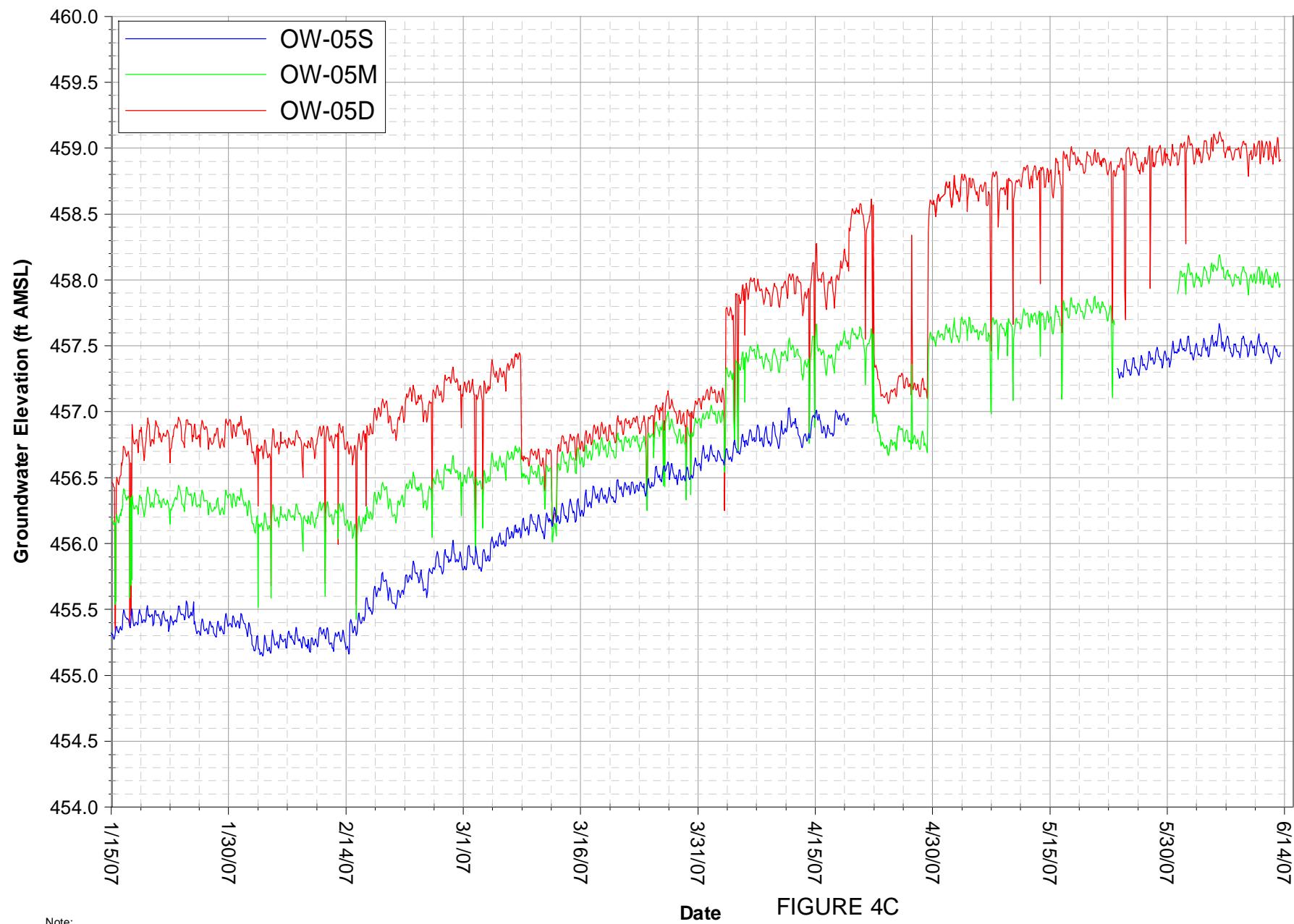
Note:
Data subject to review.
Injection at IW-2 between March 8 through April 3, 2007.
IM3 Plant Shut-Down between April 22-28, 2007.

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-2S data unavailable prior to February 14, 2007.
 Injection at IW-2 between March 8 through April 3, 2007.
 IM3 Plant Shut-Down between April 22-28, 2007.

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



Note:
Data subject to review.

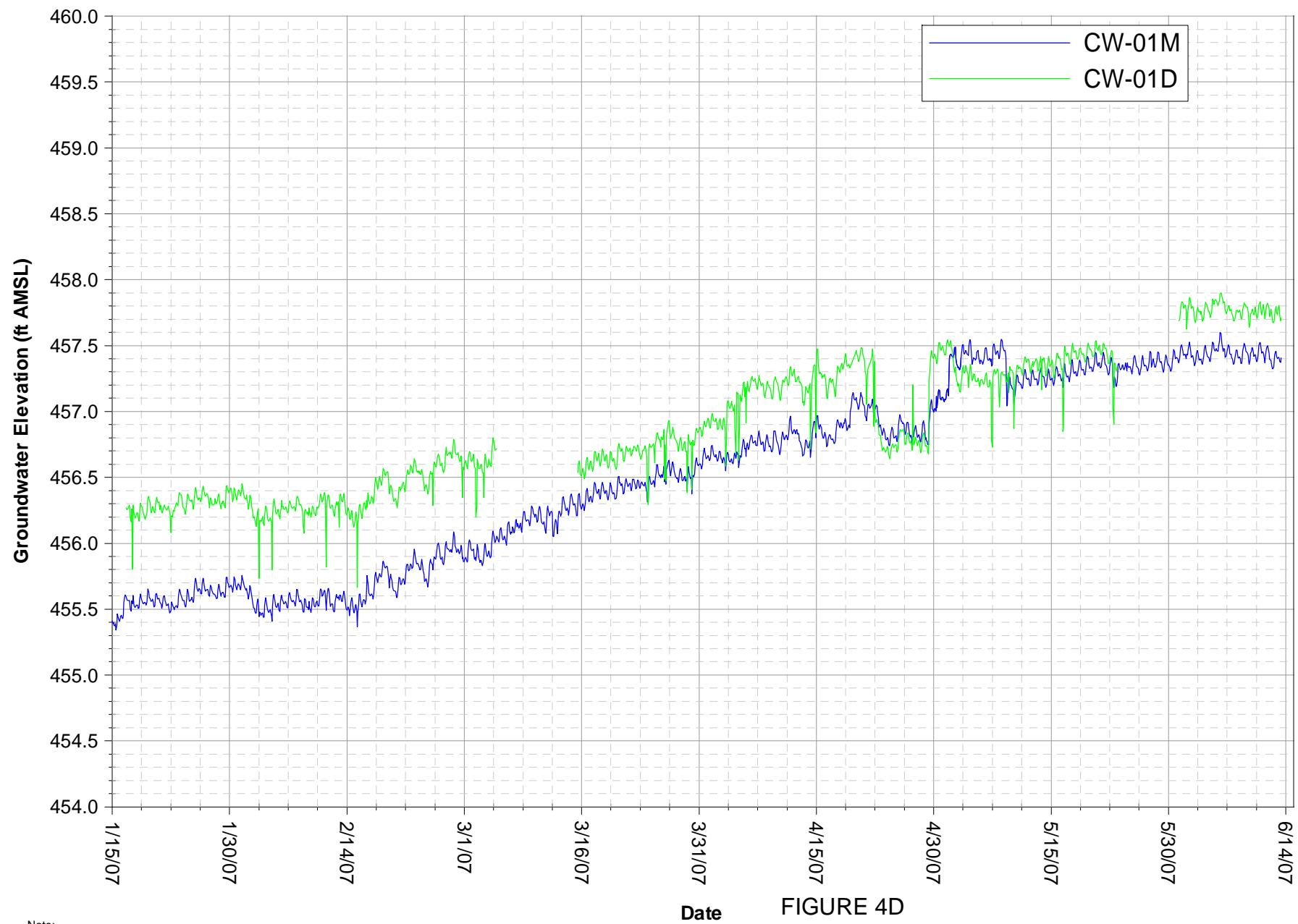
Injection at IW-2 between March 8 through April 3, 2007.

IM3 Plant Shut-Down between April 22-28, 2007.

OW-5S data unavailable between April 19 through May 23, 2007.

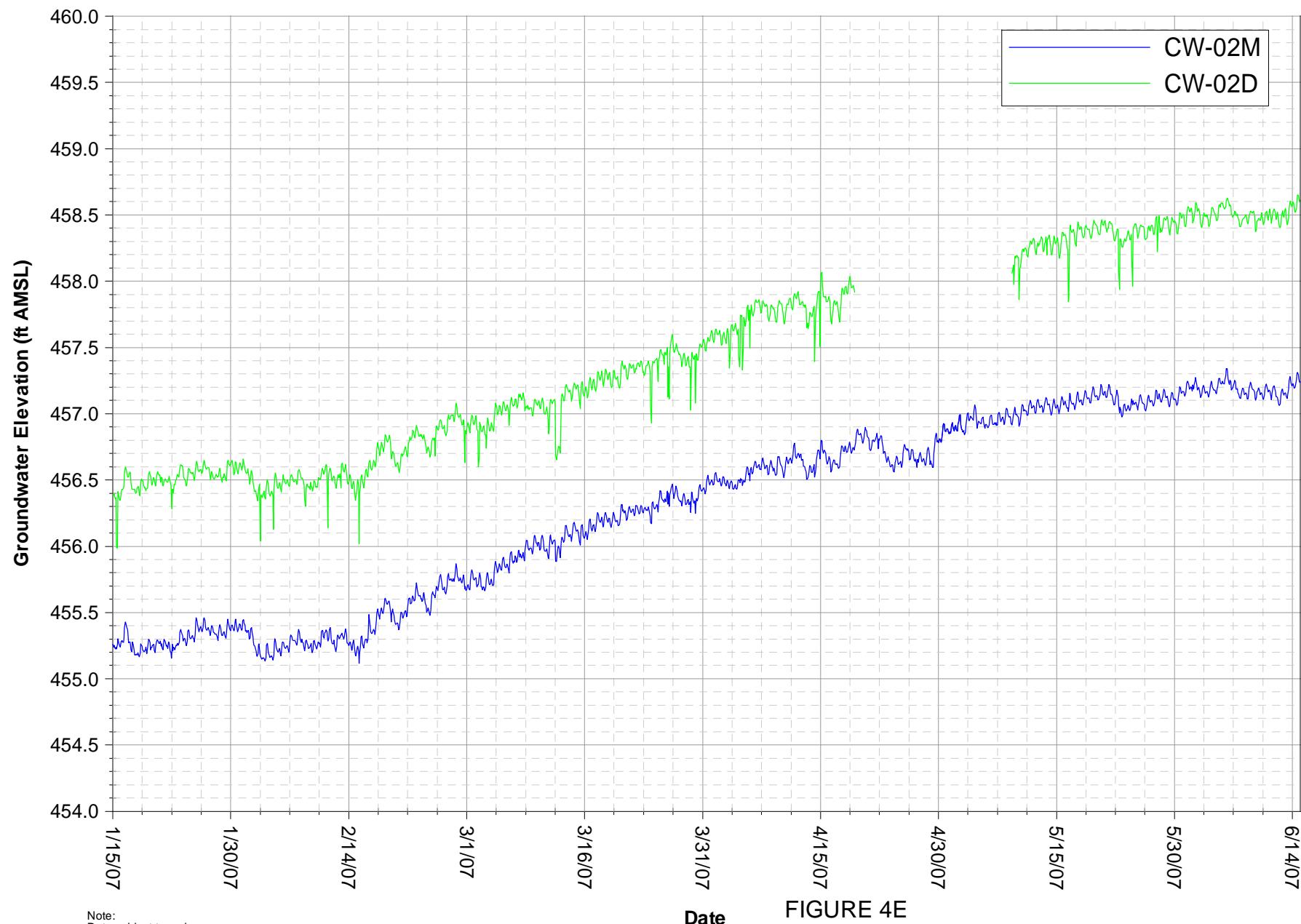
OW-5M data unavailable between May 23-31, 2007.

FIGURE 4C
OW-05 GROUNDWATER ELEVATION HYDROGRAPHS
IM-3 COMPLIANCE MONITORING PROGRAM
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA



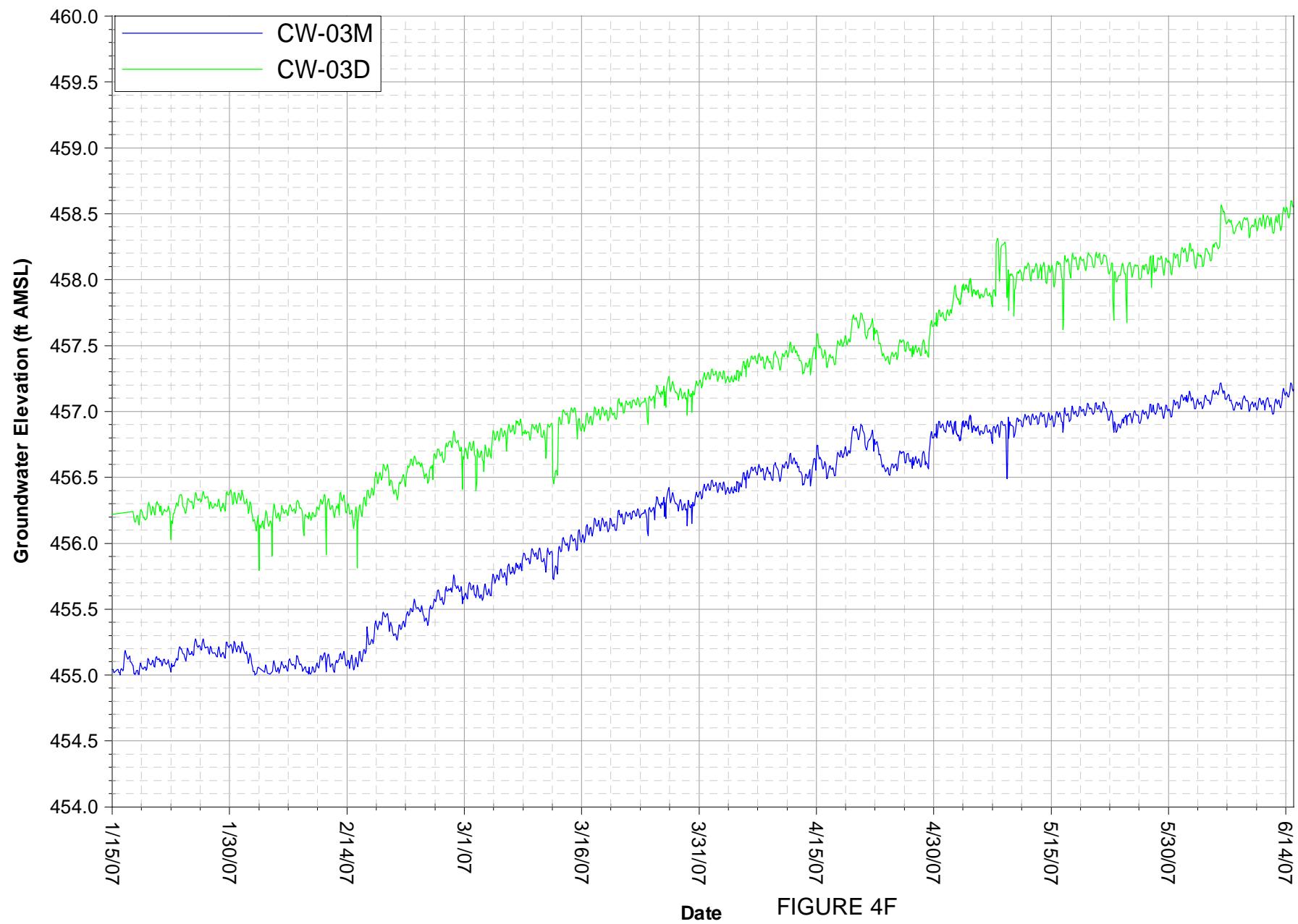
Note:
Data subject to review.
Injection at IW-2 between March 8 through April 3, 2007.
IM3 Plant Shut-Down between April 22-28, 2007.
CW-1D data unavailable between March 5-15, 2007 and May 23-31, 2007.

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



Note:
Data subject to review.
Injection at IW-2 between March 8 through April 3, 2007.
IM3 Plant Shut-Down between April 22-28, 2007.
CW-2D data unavailable between April 19 through May 9, 2007.

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



Note:
Data subject to review.
Injection at IW-2 between March 8 through April 3, 2007.
IM3 Plant Shut-Down between April 22-28, 2007.

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

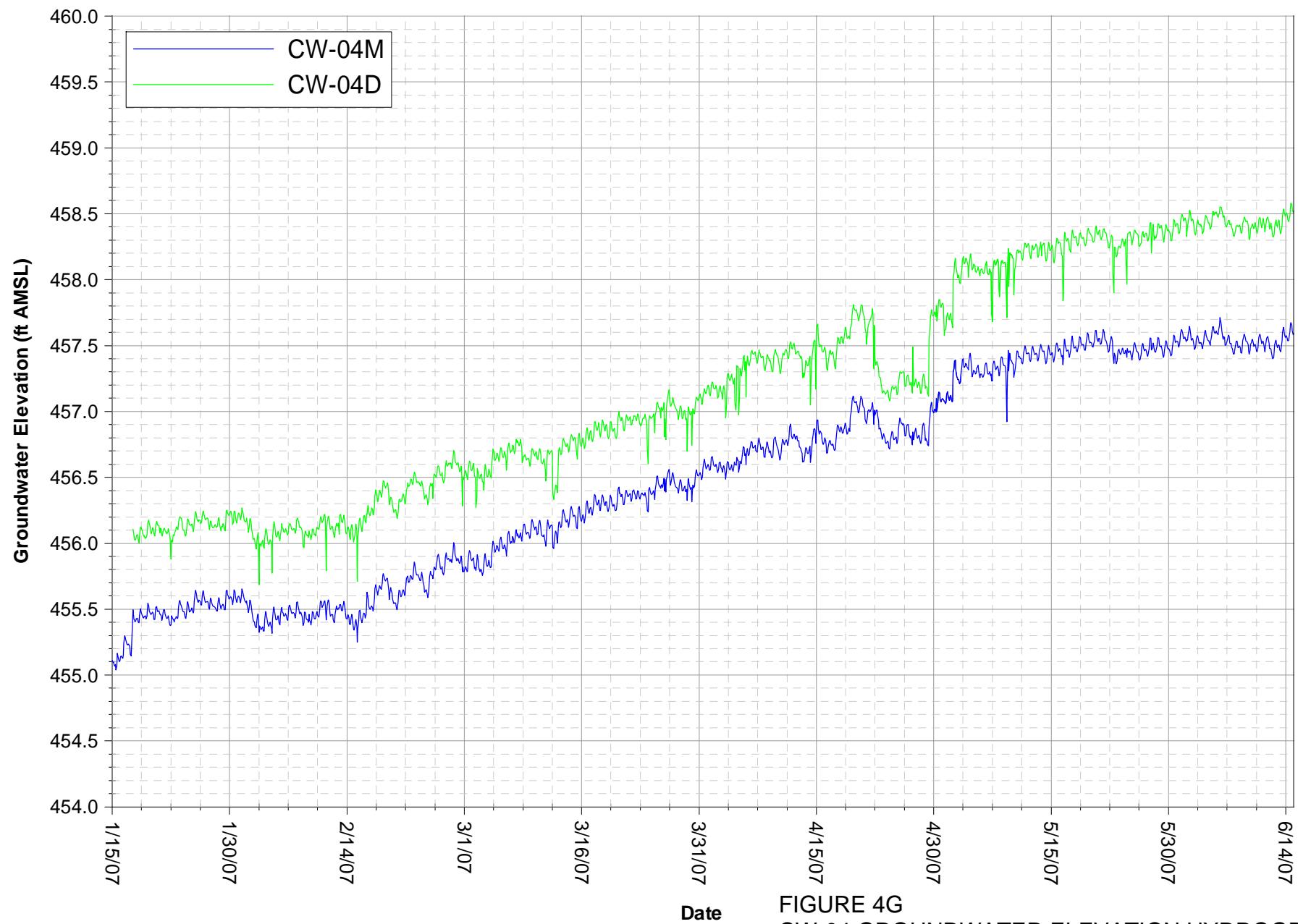
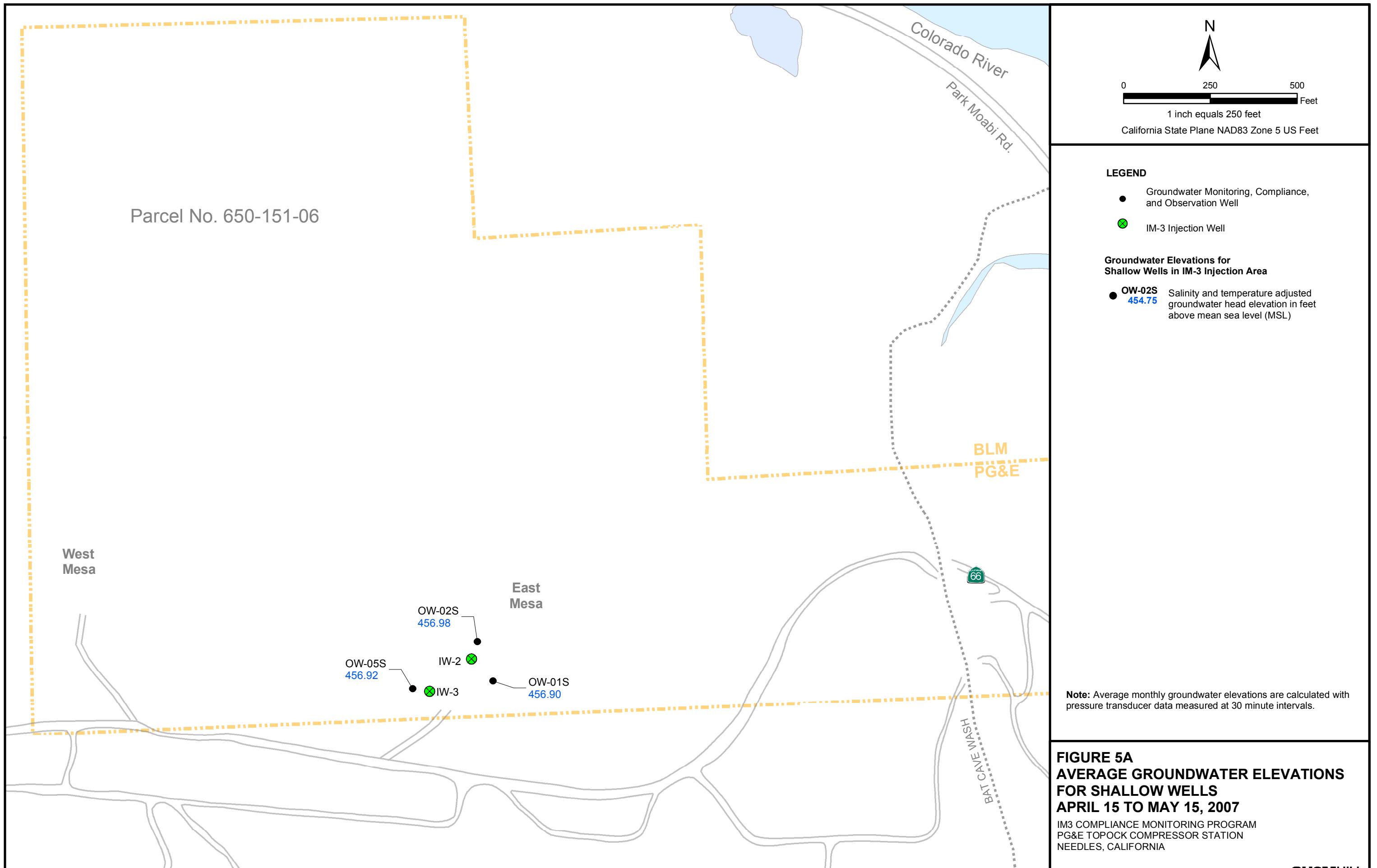
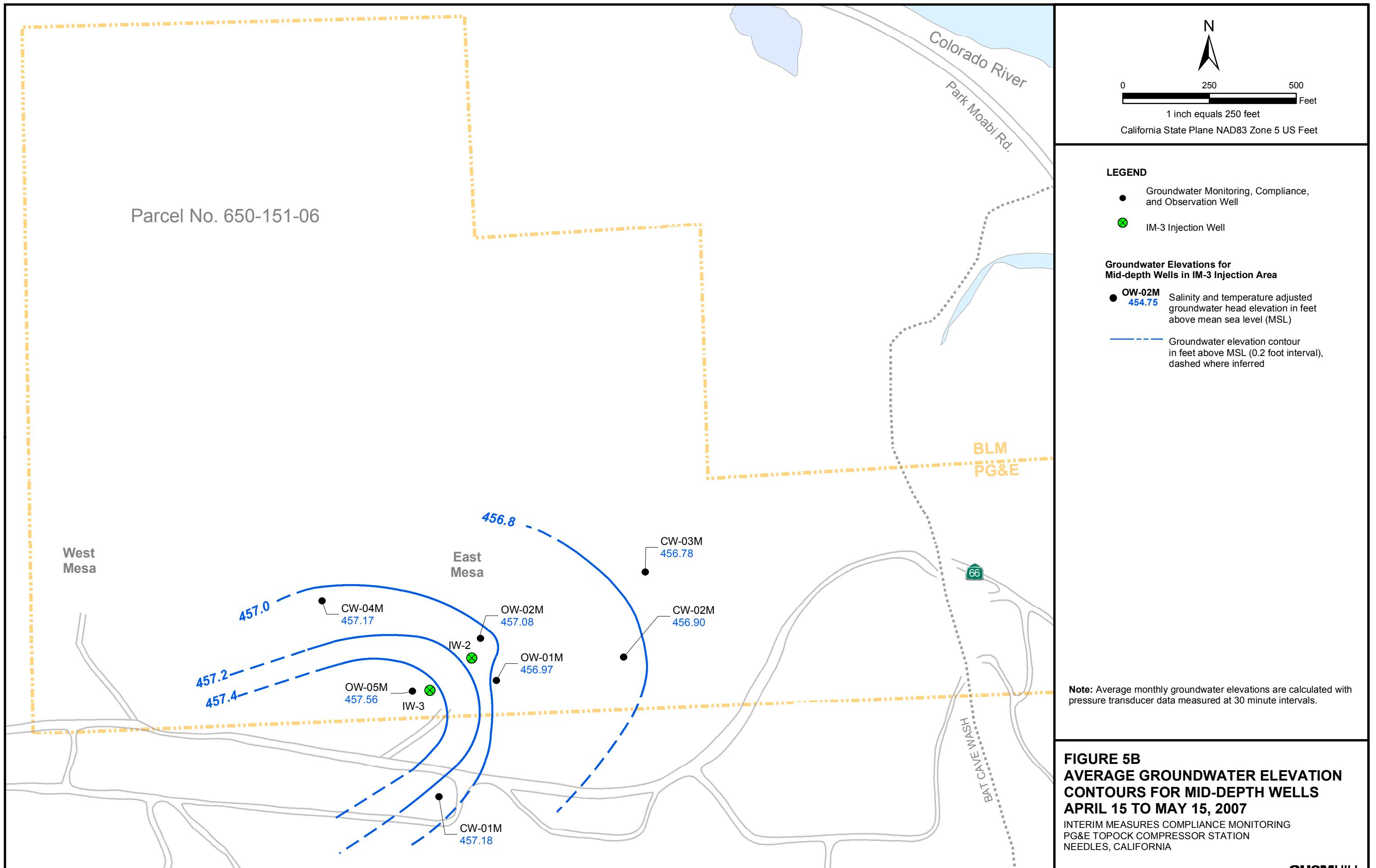


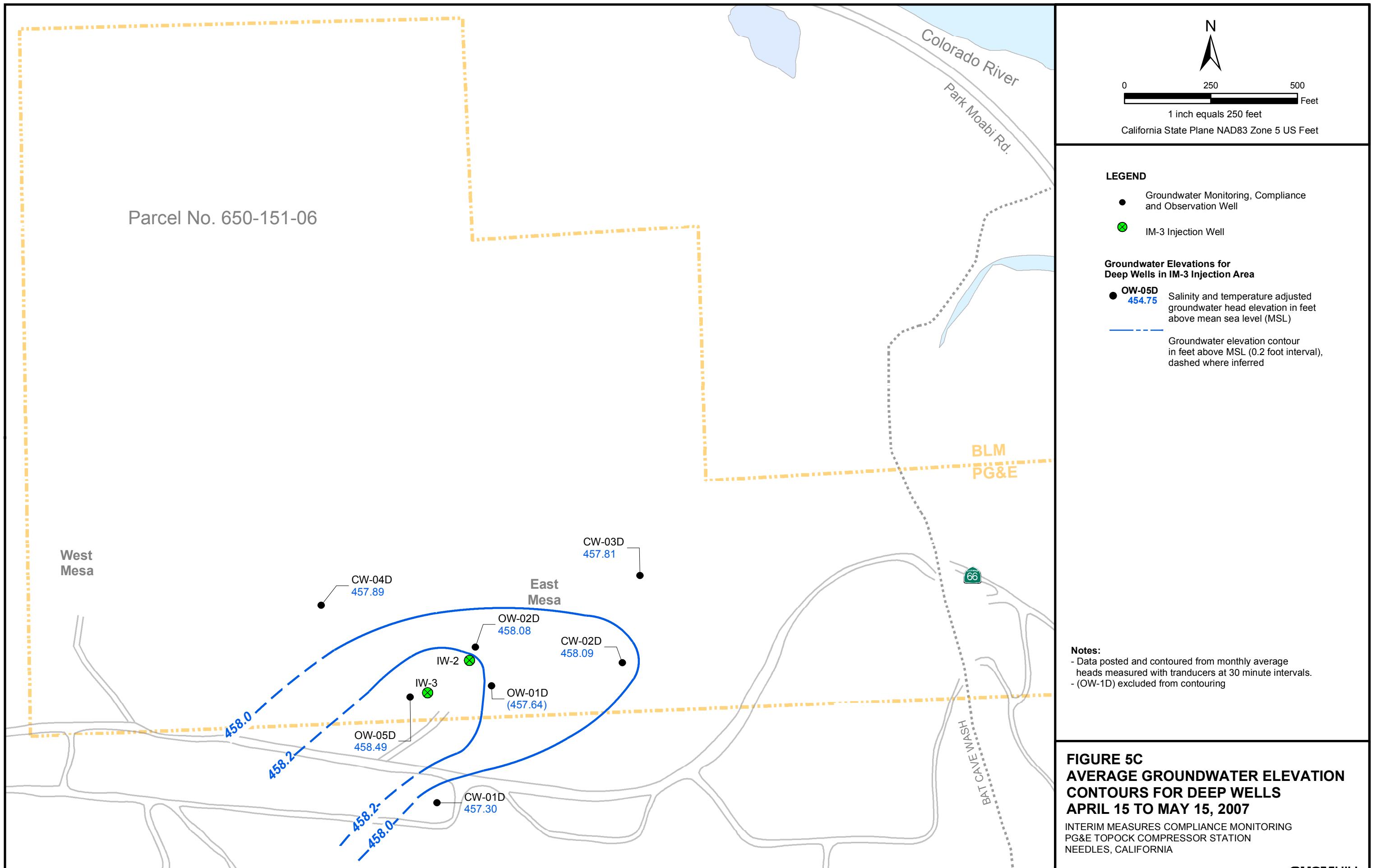
FIGURE 4G
CW-04 GROUNDWATER ELEVATION HYDROGRAPHS

IM-3 Compliance Monitoring Program
PG & E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Note:
Data subject to review.
Injection at IW-2 between March 8 through April 3, 2007.
IM3 Plant Shut-Down between April 22-28, 2007.







Appendix A
Laboratory Reports, Second Quarter 2007

Appendix B
Field Data Sheets, Second Quarter 2007
