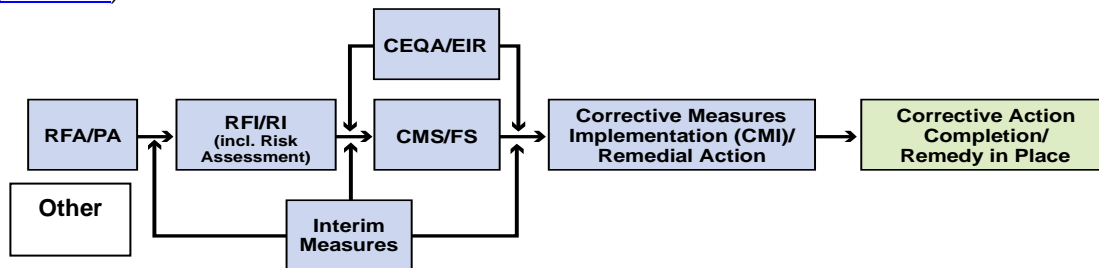


Topock Project Executive Abstract

<p>Document Title:</p> <p>Topock IM No. 3 WDR First Quarter 2009 Monitoring Report</p> <p>Submitting Agency/ Authored by: RWQCB</p> <p>Final Document? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Date of Document: April 15, 2009</p> <p>Who Created this Document?: (i.e. PG&E, DTSC, DOI, Other)</p> <p>PG&E</p>
<p>Priority Status: <input type="checkbox"/> HIGH <input type="checkbox"/> MED <input checked="" type="checkbox"/> LOW</p> <p>Is this time critical? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Action Required:</p> <p><input checked="" type="checkbox"/> Information Only <input type="checkbox"/> Review & Comment</p> <p>Return to: _____</p> <p>By Date: _____</p> <p><input type="checkbox"/> Other / Explain:</p>
<p>Type of Document:</p> <p><input type="checkbox"/> Draft <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Memo</p> <p><input type="checkbox"/> Other / Explain:</p>	<p>What does this information pertain to?</p> <p><input type="checkbox"/> Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA)</p> <p><input type="checkbox"/> RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment)</p> <p><input type="checkbox"/> Corrective Measures Study (CMS)/Feasibility Study (FS)</p> <p><input type="checkbox"/> Corrective Measures Implementation (CMI)/Remedial Action</p> <p><input type="checkbox"/> California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR)</p> <p><input checked="" type="checkbox"/> Interim Measures</p> <p><input type="checkbox"/> Other / Explain:</p>
<p>What is the consequence of NOT doing this item? What is the consequence of DOING this item?</p> <p>Submittal of this report is a compliance requirement of RWQCB Waste Discharge Requirements/Order No. R7-2006-0060</p>	<p>Is this a Regulatory Requirement?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>If no, why is the document needed?</p>
<p>Other Justification/s:</p> <p><input type="checkbox"/> Permit <input type="checkbox"/> Other / Explain:</p>	
<p>Brief Summary of attached document:</p> <p>This report covers the IM No. 3 groundwater treatment system monitoring activities during the First Quarter 2009 period. The groundwater monitoring results for wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D will be submitted under separate cover, as part of the Compliance Monitoring Program.</p> <p>Written by: PG&E</p>	
<p>Recommendations:</p> <p>This report is for your information only.</p>	
<p>How is this information related to the Final Remedy or Regulatory Requirements:</p> <p>The IM No. 3 WDR First Quarter 2009 Report is related to the Interim Measure, and is designed to monitor compliance with RWQCB Waste Discharge Requirements/Order No. R7-2006-0060.</p>	
<p>Other requirements of this information?</p> <p>None.</p>	

Related Reports and Documents:

Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site (www.dtsc-topock.com).



Legend

RFA/PA – RCRA Facility Assessment/Preliminary Assessment

RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment)

CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study

CEQA/EIR – California Environmental Quality Act/Environmental Impact Report



**Pacific Gas and
Electric Company**

Curt Russell
Topock Site Manager
GT&D Remediation

Topock Compressor Station
145453 National Trails Hwy
Needles, CA 92363

Mailing Address
P.O. Box 337
Needles, CA 92363

760.326.5582
Fax: 760.326.5542
Email: gcr4@pge.com

April 15, 2009

Robert Perdue
Executive Officer
California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

**Subject: First Quarter 2009 Monitoring Report - Board Order R7-2006-0060
PG&E Topock Compressor Station, Needles, California
Interim Measure No. 3 Groundwater Treatment System
Discharge to Injection Wells**

Dear Mr. Perdue:

Enclosed is the First Quarter 2009 Monitoring Report for the Pacific Gas and Electric Company (PG&E) Topock Compressor Station, Interim Measure (IM) No. 3 Groundwater Treatment System.

This report is being submitted in compliance with the Waste Discharge Requirements (WDRs) issued September 20, 2006 by the California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) under Order R7-2006-0060 and in compliance with the revised Monitoring and Reporting Program for Order R7-2006-0060, issued August 28, 2008. The WDRs apply to IM No. 3 Treatment System discharge by subsurface injection.

The groundwater monitoring results for wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D will be submitted under separate cover, as part of the Compliance Monitoring Program.

If you have any questions regarding this report, please call me at (760) 326-5582.

Sincerely,

Curt Russell
Topock Site Manager

Enclosures:

First Quarter 2009 Monitoring Report for the IM No. 3 Groundwater Treatment System

cc: Tom Vandenberg, State Water Resources Control Board
Cliff Raley, State Water Resources Control Board
Aaron Yue, DTSC

**First Quarter 2009
Monitoring Report
for Interim Measure No. 3
Groundwater Treatment System**

**Waste Discharge Requirements
Board Order No. R7-2006-0060
PG&E Topock Compressor Station
Needles, California**

Prepared for
**California Regional Water Quality Control Board
Colorado River Basin Region**

on behalf of
Pacific Gas and Electric Company

April 15, 2009

CH2MHILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

**First Quarter 2009 Monitoring Report
for Interim Measure No. 3 Groundwater Treatment System
Waste Discharge Requirements Order No. R7-2006-0060
PG&E Topock Compressor Station
Needles, California**

Prepared for
Pacific Gas and Electric Company

April 15, 2009

This report was prepared under the supervision of a
California Certified Professional Engineer



A handwritten signature in blue ink, appearing to read "Dennis Fink", written over a horizontal line.

Dennis Fink, P.E. No. 68986
Project Engineer

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Appendix

A	First Quarter 2009 Laboratory Analytical Reports
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Acronyms and Abbreviations

IM	Interim Measure
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
Truesdail	Truesdail Laboratories, Inc.
Water Board	California Regional Water Quality Control Board, Colorado River Basin Region
WDR	Waste Discharge Requirements

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 for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems collectively are referred to as IM No. 3. Figure 1 provides a map of the project area. All figures are located at the end of this report.

California Regional Water Quality Control Board, Colorado River Basin Region (Water Board) Board Order No. R7-2006-0060 authorizes PG&E to inject treated groundwater into injection wells located on San Bernardino County Assessor's Parcel No. 650-151-06. Order No. R7-2006-0060 was issued September 20, 2006 and is the successor to Order No. R7-2004-0103. The revised Monitoring and Reporting Program (MRP) under the Order, issued August 28, 2008, requires quarterly monitoring reports to be submitted by the fifteenth day of the month following the end of the quarter.

This report covers monitoring activities related to operation of the IM No. 3 groundwater treatment system during the First Quarter 2009. The groundwater monitoring results for wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D will be submitted under separate cover, as part of the Compliance Monitoring Program.

2.0 Sampling Station Locations

Table 1 lists the locations of sampling stations. (All tables are located at the end of this report.) Sampling station locations are shown on the process and instrumentation diagrams, Figures TP-PR-10-10-04, TP-PR-10-10-08, and TP-PR-10-10-06, provided at the end of this report.

3.0 Description of Activities

The treatment system was initially operated between July 25 and July 28, 2005 for the Waste Discharge Requirement (WDR)-mandated startup phase. Discharge to the injection wells was initiated July 31, 2005 after successfully completing the startup phase in accordance with Order R7-2004-0103. Full-time operation of the treatment system commenced in August 2005.

Influent to the treatment facility, permitted by Order R7-2006-0060 (successor to Order R7-2004-0103), includes:

- Groundwater from extraction wells TW-2S, TW-2D, TW-3D, and PE-1.
- Purged groundwater and water generated from rinsing field equipment during monitoring events.
- Groundwater generated during well installation, well development, and aquifer testing.

During the First Quarter 2009, extraction wells TW-3D and PE-1 operated at a target pump rate of 135 gallons per minute, excluding periods of planned and unplanned downtime. Extraction well TW-2D ran for a short period on February 11, 2009 during a sampling event; otherwise it was not operated during the First Quarter 2009. Extraction well TW-2S was not operated during First Quarter 2009. The operational run time for the IM groundwater extraction system (combined or individual pumping), by month, was approximately:

- 93.6 percent during January 2009
- 98.5 percent during February 2009
- 94.7 percent during March 2009

Operation of the groundwater treatment system results in the following three out-flow components:

- **Treated Effluent:** Treated water that is discharged to the injection well(s).
- **Reverse Osmosis Concentrate (brine):** Treatment byproduct that is transported and disposed of offsite at a permitted facility.
- **Sludge:** Treatment byproduct that is transported offsite for disposal at a permitted facility. Disposal occurs each time a sludge waste storage bin reaches capacity or within 90 days of the start date for accumulation in the storage container.

4.0 Groundwater Treatment System Flow Rates

The First Quarter 2009 treatment system monthly average flow rates (influent, effluent, and reverse osmosis concentrate) are presented in Table 2.

The system influent flow rate was measured by flow meters at groundwater extraction wells TW-2S, TW-2D, TW-3D, and PE-1 (Figure TP-RP-10-10-03). The treatment system effluent flow rate was measured by flow meters in the piping into injection wells IW-2 and IW-3 (Figure TP-RP-10-10-11). The reverse osmosis concentrate flow rate was measured by a flow meter at the piping carrying water from reverse osmosis concentrate tank T-701 to the truck load-out station (Figure TP-RP-10-10-08).

The IM No. 3 facility treated approximately 16,700,883 gallons of extracted groundwater during First Quarter 2009. The IM No. 3 facility also treated approximately 13,944 gallons of water generated from the groundwater monitoring program and 51,800 gallons of injection well development water.

Four containers of solids were transported offsite from the IM No. 3 facility during First Quarter 2009.

Periods of planned and unplanned extraction system downtime (that together resulted in approximately 4.4 percent of downtime during First Quarter 2009) are summarized below. The times shown are in Pacific Standard Time to be consistent with other data collected (e.g., water level data) at the site.

4.1 January 2009

January 8, 2009 (planned): The extraction well system was offline from 1:29 p.m. to 1:30 p.m. and from 1:46 p.m. to 1:47 p.m. when the extraction wells were shut down temporarily for testing of leak detection system. Extraction well downtime was 2 minutes.

January 10, 2009 (unplanned): The extraction well system was offline from approximately 3:10 p.m. to 3:23 p.m. due to a power outage. The data historian battery backup failed during this outage and did not come back online until January 12, 2009 at 9:54 a.m. Extraction system downtime was 13 minutes.

January 15, 2009 (planned): The extraction well system was offline from 11:54 a.m. to 11:59 a.m. for inspection of leak detection system. Extraction system downtime was 5 minutes.

January 19, 2009 (unplanned): The extraction well system was offline from 11:49 a.m. to 12:09 p.m., due to plugging of the low flow switch on the chemical mixing loop. Extraction system downtime was 20 minutes.

January 19, 2009 (unplanned): The extraction well system was offline from 12:26 p.m. to 1:35 p.m., when the system shut down due to low flow. Extraction system downtime was 69 minutes.

January 20, 2009 (planned): The extraction well system was offline from 7:40 a.m. to 8:20 a.m. to perform plant maintenance. Extraction system downtime was 40 minutes.

January 20, 2009 – January 21, 2009 (planned): The extraction well system was offline from 8:37 a.m. on January 20 to January 21, 2009 at 5:27 p.m. during the scheduled monthly maintenance outage. Extraction system downtime was 32 hours and 50 minutes.

January 21, 2009 (unplanned): The extraction well system was offline from 7:07 p.m. to 8:44 p.m., and again from 9:11 p.m. to 11:25 p.m., because the plant staff was managing water inventory during the plant start-up after the maintenance outage. Extraction system downtime was 3 hours and 51 minutes.

January 23, 2009 (planned): The extraction well system was offline from 11:05 a.m. to 3:56 p.m. for plant maintenance. Extraction well system downtime was 4 hours and 51 minutes.

January 29, 2009 (unplanned): The extraction well system was offline from 8:23 a.m. to 10:53 a.m., and again from 7:00 p.m. to 7:10 p.m. due to a leak in the microfiltration system. Extraction well system downtime was 2 hours and 40 minutes.

January 29, 2009 (unplanned): The extraction well system was offline from 10:05 p.m. to 10:15 p.m. due to low level in extraction well PE-1. Extraction well system downtime was 10 minutes.

January 30, 2009 (planned): The extraction well system was offline from 8:55 a.m. to 9:16 a.m. for microfiltration system maintenance. Extraction well system downtime was 21 minutes.

January 31, 2009 (unplanned): The extraction well system was offline from 12:19 p.m. to 12:34 p.m. due to problems associated with the microfiltration system. Extraction well system downtime was 15 minutes.

4.2 February 2009

February 18, 2009 (planned): The extraction well system was offline from 9:24 a.m. to 5:23 p.m. during the scheduled monthly maintenance outage. Extraction well downtime was 7 hours and 59 minutes.

February 18, 2009 (planned): The extraction well system was offline from approximately 5:41 p.m. to 6:25 p.m. due to switching from the emergency generator to City of Needles power. Extraction system downtime was 44 minutes.

February 23, 2009 (unplanned): The extraction well system was offline from 6:47 a.m. to 7:00 a.m. and again from 7:53 a.m. to 8:48 a.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 1 hour and 8 minutes.

February 23, 2009 (planned): The extraction well system was offline from 11:53 a.m. to 11:55 a.m., 12:02 p.m. to 12:05 p.m., and again from 12:10 p.m. to 12:11 p.m., due to testing of extraction well piping leak detection system. Extraction system downtime was 4 minutes.

February 24, 2009 (planned): The extraction well system was offline from 4:06 p.m. to 4:08 p.m., and again from 4:18 p.m. to 4:23 p.m., when the system was shut down for the annual change out of the emergency generator. Extraction system downtime was 7 minutes.

February 27, 2009 (planned): The extraction well system was offline from 12:30 p.m. to 12:31 p.m. to test leak detection system in valve vault 1. Extraction system downtime was 1 minute.

4.3 March 2009

March 4, 2009 (planned): The extraction well system was offline from 8:20 a.m. to 8:36 a.m. when the extraction wells were shutdown temporarily to measure the level of each extraction well. Extraction well downtime was 16 minutes.

March 13-14, 2009 (unplanned): The extraction well system was offline from 10:01 p.m. on March 13 to 1:38 a.m. on March 14 due to a pump flow sensor failure in the raw water feed pump. Extraction system downtime was 3 hours and 37 minutes.

March 16, 2009 (unplanned): The extraction well system was offline from 5:38 p.m. to 6:58 p.m. due to a hose disconnection at the microfilter. Extraction system downtime was 1 hour and 20 minutes.

March 18, 2009 (planned): The extraction well system was offline from 6:51 a.m. to 4:59 p.m. and again from 5:20 p.m. to 7:21 p.m. during the scheduled monthly maintenance outage. Extraction system downtime was 12 hours and 9 minutes.

March 20, 2009 (planned): The extraction well system was offline from 8:21 a.m. to 8:23 a.m., 11:01 a.m. to 11:02 a.m., 11:09 a.m. to 11:10 a.m., 11:17 a.m. to 11:18 a.m., 11:25 a.m. to 11:26 a.m., 11:33 a.m. to 11:34 a.m., 11:40 a.m. to 11:41 a.m., and 12:00 p.m. to 12:01 p.m. when the system was shut down for testing of the leak detection system. Extraction system downtime was 9 minutes.

March 22, 2009 (unplanned): The extraction well system was offline from 8:49 a.m. to 9:03 a.m. due to a leak at the microfilter. Extraction system downtime was 14 minutes.

March 23, 2009 (planned): The extraction well system was offline from 7:48 a.m. to 8:43 p.m. due to plant testing. Extraction system downtime was 55 minutes.

March 27, 2009 (unplanned): The extraction well system was offline from 5:01 a.m. to 6:51 a.m., 7:03 a.m. to 7:54 a.m., 9:08 a.m. to 9:41 a.m., 12:28 p.m. to 12:44 p.m., and 12:45 p.m. to 1:52 p.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 4 hours and 37 minutes.

March 28, 2009 (unplanned): The extraction well system was offline from 1:12 a.m. to 4:54 a.m. and again from 6:56 a.m. to 7:37 a.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 4 hours and 23 minutes.

March 28, 2009 (unplanned): The extraction well system was offline from 10:28 a.m. to 12:36 p.m. due to high pH at AIT606. Extraction system downtime was 2 hours and 8 minutes.

March 29, 2009 (unplanned): The extraction well system was offline from 5:40 a.m. to 6:23 a.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 42 minutes.

March 29-30, 2009 (unplanned): The extraction well system was offline from 11:15 p.m. on March 29 to 2:50 a.m. on March 30 due to a power outage. Extraction system downtime was 3 hours and 55 minutes.

March 30, 2009 (unplanned): The extraction well system was offline from 5:12 a.m. to 7:22 a.m. and 9:21 a.m. to 9:23 a.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 2 hours and 12 minutes.

March 31, 2009 (unplanned): The extraction well system was offline from 1:23 a.m. to 1:42 a.m., from 3:49 a.m. to 5:19 a.m. and 6:29 a.m. to 7:53 a.m. due to maintenance on the ferrous chloride system. Extraction system downtime was 2 hours and 53 minutes.

5.0 Sampling and Analytical Procedures

With the exception of pH, all samples were collected at the designated sampling locations and placed directly into containers provided by Truesdail Laboratories, Inc. (Truesdail). Sample containers were labeled and packaged according to standard sampling procedures.

The samples were stored in a sealed container chilled with ice and transported to Truesdail via courier under chain-of-custody documentation. The laboratories confirmed the samples were received in chilled condition upon arrival.

Truesdail is certified by the California Department of Health Services (Certification No. 1237) under the State of California's Environmental Laboratory Accreditation Program. California-certified laboratory analyses were performed in accordance with the latest edition of the *Guidelines Establishing Test Procedures for Analysis of Pollutants* (40 Code of Federal Regulations Part 136), promulgated by the United States Environmental Protection Agency.

During the First Quarter 2009, analysis of pH was conducted by field method pursuant to the Water Board letter dated October 16, 2007 (subject: Clarification of Monitoring and Reporting Program Requirements) authorizing pH measurements to be conducted in the field. The field method pH samples were collected at the designated sampling locations and field tested within 15 minutes of sampling.

As required by the MRP, the analytical method selected for total chromium has a method detection limit of 1 part per billion, and the analytical method selected for hexavalent chromium has a method detection limit of 0.2 part per billion.

Influent, effluent, reverse osmosis concentrate, and sludge sampling frequency was conducted in accordance with the revised MRP, issued August 28, 2008.

Groundwater quality is being monitored in observation and compliance wells according to Order R7-2006-0060, the procedures and schedules approved in the *Groundwater Compliance Monitoring Plan for Interim Measures No. 3 Injection Area* submitted to the Water Board on June 17, 2005, and the revised Monitoring and Reporting Program (MRP) under Order R7-2006-0060 issued August 28, 2008. Quarterly groundwater monitoring analytical results for the injection area (wells OW-1S/M/D, OW-2S/M/D, OW-5S/M/D, CW-1M/D, CW-2M/D, CW-3M/D, and CW-4M/D) are reported in a separate document, in conjunction with groundwater level maps of the same monitoring wells.

6.0 Analytical Results

Laboratory reports for samples collected in First Quarter 2009 were prepared by certified analytical laboratories, and are presented in Appendix A.

Samples were collected in accordance with the WDR sampling frequency requirements. See Table 3 for sample collection dates.

The influent sampling analytical results are presented in Table 4. The effluent sampling analytical results are presented in Table 5. The reverse osmosis concentrate sampling analytical results are presented in Table 6. The sludge sampling analytical results are presented in Table 7.

Table 8 identifies the laboratory that performed each analysis and lists the following required information:

- Sample location
- Sample identification number
- Sampler name
- Sample date
- Sample time
- Laboratory performing analysis
- Analysis method
- Analysis date
- Laboratory technician

7.0 Conclusions

There were no exceedances of effluent limitations during the reporting period.

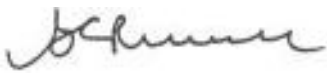
In addition, no incidents of non-compliance were identified during the reporting period. No events that caused an immediate or potential threat to human health or the environment, or new releases of hazardous waste or hazardous waste constituents, or new solid waste management units were identified during the reporting period.

8.0 Certification

On August 12, 2005, PG&E submitted a signature delegation letter to the Water Board, delegating PG&E signature authority to Mr. Curt Russell and Ms. Yvonne Meeks for correspondence regarding Board Order R7-2004-0103. Order R7-2006-0060 is the successor to Order R7-2004-0103; an additional signature authority delegation is not required, as confirmed in an email from Jose Cortez dated December 12, 2006.

Certification Statement:

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

Signature:  _____

Name: _____ Curt Russell

Company: _____ Pacific Gas and Electric Company

Title: _____ Topock Site Manager

Date: _____ April 15, 2009

Tables

TABLE 1
 Sampling Station Descriptions
First Quarter 2009 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Sample Station	Sample ID^a	Location
Sampling Station A: Groundwater Treatment System Influent	SC-100B-WDR-###	Sample collected from tap on pipe into T-100 (see Figure TP-RP-10-10-04).
Sampling Station B: Groundwater Treatment System Effluent	SC-700B-WDR-###	Sample collected from tap on pipe downstream from T-700 (see Figure TP-RP-10-10-04).
Sampling Station D: Groundwater Treatment System Reverse Osmosis Concentrate	SC-701-WDR-###	Sample collected from tap on pipe into T-701 (see Figure TP-RP-10-10-08).
Sampling Station E: Groundwater Treatment System Sludge	SC-SLUDGE-WDR-###	Sample collected from sludge accumulated in the phase separator used this quarter (see Figure TP-RP-10-10-06).

Note:

= Sequential sample identification number at each sample station.

^a The sample event number is included at the end of the sample ID (e.g., SC-100B-WDR-015).

TABLE 2
 Flow Monitoring Results
First Quarter 2009 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Parameter	System Influent ^{a,b} (gpm)	System Effluent ^{b,c} (gpm)	Reverse Osmosis Concentrate ^b (gpm)
January 2009 Average Monthly Flowrate	125.8	123.6	2.6
February 2009 Average Monthly Flowrate	133.5	131.5	2.6
March 2009 Average Monthly Flowrate	127.8	125.9	3.0

Notes:

gpm: gallons per minute.

^a Extraction wells TW-3D and PE-1 were operated during the First Quarter 2009. Extraction well TW-2D ran for a short period on February 11, 2009. Extraction well TW-2S was not operated during the First Quarter 2009.

^b The difference between influent flow rate and the sum of the effluent and reverse osmosis concentrate flow rates during the First Quarter 2009 is approximately 0.5 percent.

^c Effluent was discharged into injection wells IW-02 and IW-03 during the First Quarter 2009.

TABLE 3
Sample Collection Dates
First Quarter 2009 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

Parameter	Sample Collection Dates	Results
Influent ^a	January 9, 2009	See Table 4
	February 4, 2009	
	March 4, 2009	
Effluent ^b	January 9, 2009	See Table 5
	January 14, 2009	
	January 20, 2009	
	January 28, 2009	
	February 4, 2009	
	February 11, 2009	
	February 17, 2009	
	February 25, 2009	
	March 4, 2009	
	March 11, 2009	
	March 17, 2009	
	March 25, 2009	
Reverse Osmosis Concentrate ^c	March 4, 2009	See Table 6
Sludge ^d	January 13, 2009	See Table 7
	January 20, 2009	
	February 24, 2009	
	March 19, 2009	

Notes:

- ^a Influent sampling is required monthly.
^b Effluent sampling is required weekly.
^c Reverse Osmosis Concentrate sampling is required quarterly.
^d Sludge sampling is required quarterly by composite.

TABLE 4
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Influent Monitoring Results ^a
First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Required Sampling Frequency			Monthly																								
<div>Sample ID</div>	<div>Date</div>	<div>Analytes Units ^b MDL</div>	TDS	Turbidity	Specific Conductance	Field ^c pH	Chromium	Hexavalent Chromium	Aluminium	Ammonia (as N)	Antimony	Arsenic	Barium	Boron	Copper	Fluoride	Lead	Manganese	Molybdenum	Nickel	Nitrate (as N)	Nitrite (as N)	Sulfate	Iron	Zinc		
			mg/L	NTU	µmhos/cm	pH units	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L
			50.4	0.0070	0.0990	---	0.266	1.52	0.256	0.0090	0.112	0.0150	0.0162	0.0048	0.130	0.0050	0.0910	0.0161	0.0840	0.127	0.0350	0.0010	0.600	2.40	0.115		
SC-100B-WDR-185	1/9/2009		4840	ND (0.100)	7850	7.1	1300	1370	ND (50.0)	ND (0.500)	ND (10.0)	1.76	16.5	1.18	ND (5.00)	2.79	ND (10.0)	ND (10.0)	18.5	ND (10.0)	3.76	ND (0.0050)	633	ND (20.0)	ND (10.0)		
RL			250	0.100	2.00	---	1.00	21.0	50.0	0.500	10.0	0.200	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	50.0	20.0	10.0		
SC-100B-WDR-189	2/4/2009		5360	0.144	7800	7.3	1160	1250	ND (50.0)	ND (0.500)	ND (10.0)	6.12	31.4	1.15	ND (5.00)	2.53	ND (10.0)	ND (10.0)	25.4	ND (10.0)	3.26	ND (0.0050)	589	ND (20.0)	ND (10.0)		
RL			250	0.100	2.00	---	1.00	10.5	50.0	0.500	10.0	1.00	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	25.0	20.0	10.0		
SC-100B-WDR-193	3/4/2009		4860	ND (0.100)	7670	7.3	1250	1220	ND (50.0)	ND (0.500)	ND (10.0)	2.27	28.3	1.11	ND (5.00)	2.70	ND (10.0)	ND (10.0)	26.6	ND (10.0)	3.29	ND (0.0050)	602	ND (20.0)	ND (10.0)		
RL			250	0.100	2.00	---	2.00	21.0	50.0	0.500	10.0	2.00	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	12.5	20.0	10.0		

NOTES:
(---) = not required by the WDR Monitoring and Reporting Program
J = concentration or reporting limits estimated by laboratory or validation
MDL = method detection limit
mg/L = milligrams per liter
N = nitrogen
ND = parameter not detected at the listed value
NTU = nephelometric turbidity units
RL = project reporting limit
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter

^a Sampling Location for all influent samples is tap on pipe from extraction wells into tank T-100 (see attached P&ID TP-PR-10-10-04).
^b Units reported in this table are those units required in the WDRs.
^c Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 5
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Effluent Monitoring Results^a
First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

WDRs Effluent Limits ^b	Ave. Monthly Max Daily	NA	NA	NA	6.5-8.4	25	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	6.5-8.4	50	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Required Sampling Frequency		Weekly						Monthly																	
<div><div></div></div>	Analytes Units ^c	TDS	Turbidity	Specific Conductance	Field pH ^e	Chromium	Hexavalent Chromium	Aluminium	Ammonia (as N)	Antimony	Arsenic	Barium	Boron	Copper	Fluoride	Lead	Manganese	Molybdenum	Nickel	Nitrate (as N)	Nitrite (as N)	Sulfate	Iron	Zinc	
	MDL ^d	mg/L	NTU	µmhos/cm	pH units	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	
		50.4	0.0070	0.0990	---	0.0532	0.0304	0.512	0.0090	0.112	0.0150	0.0324	0.0048	0.130	0.0050	0.0910	0.0161	0.0840	0.127	0.0350	0.0010	0.600	2.40	0.115	
Sample ID	Date																								
SC-700B-WDR-185	1/9/2009	4200	0.119	6670	7.20	ND (1.00)	ND (0.200)	ND (50.0)	ND (0.500)	ND (10.0)	ND (0.200)	14.7	1.11	ND (5.00)	2.42	ND (10.0)	ND (10.0)	10.3	ND (10.0)	3.08	ND (0.0050)	521	ND (20.0)	ND (10.0)	
	RL	250	0.100	2.00	---	1.00	0.200	50.0	0.500	10.0	0.200	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	12.5	20.0	10.0	
SC-700B-WDR-186	1/14/2009	4100	ND (0.100)	6560	7.30	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-187	1/20/2009	4720	ND (0.100)	6670	7.00	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-188	1/28/2009	3840	ND (0.100)	6550	7.20	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-189	2/4/2009	4110	0.114	6570	7.10	ND (1.00)	ND (0.200)	ND (50.0)	ND (0.500)	ND (10.0)	ND (1.00)	17.1	1.07	ND (5.00)	2.10	ND (10.0)	46.7	13.8	ND (10.0)	2.90	0.0054	477	ND (20.0)	ND (10.0)	
	RL	250	0.100	2.00	---	1.00	0.200	50.0	0.500	10.0	1.00	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	25.0	20.0	10.0	
SC-700B-WDR-190	2/11/2009	3860	ND (0.100)	6590	7.00	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-191	2/17/2009	4260	ND (0.100)	6560	7.00	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-192	2/25/2009	4410	ND (0.100)	6570	7.40	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-193	3/4/2009	4020	ND (0.100)	6600	7.30	ND (2.00)	ND (1.05)	ND (50.0)	ND (0.500)	ND (10.0)	ND (2.00)	57.1	1.04	27.0	1.98	ND (10.0)	ND (10.0)	14.0	ND (10.0)	2.69	ND (0.0050)	483	ND (20.0)	ND (10.0)	
	RL	250	0.100	2.00	---	2.00	1.05	50.0	0.500	10.0	2.00	10.0	0.200	5.00	0.500	10.0	10.0	10.0	10.0	1.00	0.0050	50.0	20.0	10.0	
SC-700B-WDR-194	3/11/2009	4190	ND (0.100)	6680	7.00	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-195	3/17/2009	3960	ND (0.100)	6670	6.90	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-196	3/25/2009	3830	ND (0.100)	6770	6.90	ND (1.00)	ND (0.200)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	RL	250	0.100	2.00	---	1.00	0.200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

TABLE 5
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Effluent Monitoring Results^a
First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

NOTES:

(---) = not required by the WDR Monitoring and Reporting Program
J = concentration or reporting limits estimated by laboratory or validation
MDL = method detection limit
mg/L = milligrams per liter
N = nitrogen
NA = not applicable
ND = parameter not detected at the listed value
NTU = nephelometric turbidity units
RL = project reporting limit
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter

- ^a Sampling location for all effluent samples is tap on pipe downstream from tank T-700 to injection wells (see attached P&ID TP-PR-10-10-04).
- ^b In addition to the listed effluent limits, the WDRs state that the effluent shall not contain heavy metals, chemicals, pesticides or other constituents in concentrations toxic to human health.
- ^c Units reported in this table are those units required in the WDRs.
- ^d MDL listed is the target MDL by analysis method; however, the MDL may change for each sample analysis due to the dilution required by the matrix to meet the method QC requirements. The target MDL for each method/analyte combination is calculated annually.
- ^e Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 6
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Reverse Osmosis Concentrate Monitoring Results ^a
First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Required Sampling Frequency		Quarterly																						
<div>Sample ID</div>	<div>Date</div>	<div>Analytes</div>	TDS	Specific Conductance	Field ^c pH	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		<div>Units^b</div>	mg/L	µmhos/cm	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		<div>MDL</div>	126	0.153	---	0.00053	0.00076	0.00023	0.00015	0.00016	0.0019	0.00012	0.0013	0.0013	0.0250	0.00018	0.00017	0.000030	0.0013	0.00016	0.00021	0.00018	0.00062	0.0012
SC-701-WDR-193	3/4/2009		46700	59900	7.7	0.00455	ND (0.0052)	ND (0.0100)	ND (0.0020)	0.152	ND (0.0100)	ND (0.0030)	ND (0.0100)	0.171	28.4	ND (0.0100)	0.0743	ND (0.00020)	0.0296	0.0281	ND (0.0100)	ND (0.0100)	ND (0.0100)	0.124
RL			625	2.00	---	0.0020	0.0052	0.0100	0.0020	0.0100	0.0100	0.0030	0.0100	0.0050	0.500	0.0100	0.0100	0.00020	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100

NOTES:
(---) = not required by the WDR Monitoring and Reporting Program
J = concentration or reporting limits estimated by laboratory or validation
MDL = method detection limit
mg/L = milligrams per liter
ND = parameter not detected at the listed value
RL = project reporting limit
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter

^a Sampling location for all reverse osmosis samples is tap on pipe T-701 (see attached P&ID TP-PR-10-10-08).
^b Units reported in this table are those units required in the WDRs.
^c Starting 11/20/2007, analysis of pH was switched from California certified laboratory analysis to field method pursuant to the Water Board letter dated October 16, 2007 – Clarification of Monitoring and Reporting Program Requirements, stating that pH measurements may be conducted in the field.

TABLE 7
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Sludge Monitoring Results^a
First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Required Sampling Frequency		Quarterly																		
<div><div></div><div></div><div></div></div>	Analytes	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	Units ^b	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	MDL	0.0300	0.246	0.00092	0.00063	0.0035	0.0029	0.0022	0.0035	0.0117	0.0208	0.0146	0.0035	0.00013	0.0063	0.0033	0.0020	0.0100	0.0032	0.0079
Sample ID	Date																			
SC-Sludge-WDR-193	3/4/2009	15100	12.0	ND (2.06)	38.9	114	211	38.1	7.96	57.6	67.9	ND (4.12)	23.4	0.507	ND (2.06)	ND (10.3)	ND (4.12)	10.7	311	128
RL		20.6	1.67	2.06	2.06	2.06	2.06	4.12	2.06	2.06	16.7	4.12	10.3	0.160	2.06	10.3	4.12	4.12	2.06	10.3

NOTES:

(---) = not required by the WDR Monitoring and Reporting Program
J = concentration or reporting limits estimated by laboratory or validation
mg/kg = milligrams per killogram
mg/L = milligrams per liter
MDL = method detection limit
ND = parameter not detected at the listed reporting limit
RL = project reporting limit

^a Sampling location for all sludge samples is the sludge collection bin (see attached P&ID TP-PR-10-10-06).
^b Units reported in this table are those units required in the WDRs.

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-100B	SC-100B-WDR-185	J.Aide	1/9/2009	8:10:00 AM	TLI	EPA 120.1	SC	1/13/2009	Tina Acquiat
					TLI	EPA 200.7	B	1/13/2009	Daniel Kang
					TLI	EPA 200.7	FE	1/16/2009	Daniel Kang
					TLI	EPA 200.8	CR	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	ZN	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	SB	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	PB	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	NI	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	MO	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	CU	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	BA	1/21/2009	Romuel Chaves
					TLI	EPA 200.8	AS	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	AL	1/21/2009	Romuel Chaves
					TLI	EPA 200.8	MN	1/20/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	1/12/2009	Michael Nonezyan
					TLI	EPA 300.0	SO4	1/13/2009	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	1/9/2009	Giawad Ghenniwa
					TLI	EPA 300.0	FL	1/13/2009	Giawad Ghenniwa
					FIELD	HACH	PH	1/7/2009	J. Aide
					TLI	SM2130B	TRB	1/9/2009	Gautam Savani
					TLI	SM2540C	TDS	1/13/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	1/13/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	1/9/2009	Tina Acquiat
SC-100B	SC-100B-WDR-189	J. Aide	2/4/2009	8:30:00 AM	TLI	EPA 120.1	SC	2/5/2009	Tina Acquiat
					TLI	EPA 200.7	B	2/11/2009	Mark Kotani
					TLI	EPA 200.7	MN	2/11/2009	Mark Kotani
					TLI	EPA 200.7	FE	2/11/2009	Mark Kotani
					TLI	EPA 200.8	SB	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	AL	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	BA	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	CR	2/18/2009	Romuel Chaves
					TLI	EPA 200.8	CU	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	MO	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	PB	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	ZN	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	NI	2/25/2009	Romuel Chaves

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-100B	SC-100B-WDR-189	J. Aide	2/4/2009	8:30:00 AM	TLI	EPA 200.8	AS	2/25/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	2/5/2009	Michael Nonezyan
					TLI	EPA 300.0	SO4	2/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	2/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	FL	2/5/2009	Giawad Ghenniwa
					FIELD	HACH	PH	2/4/2009	J. Aide
					TLI	SM2130B	TRB	2/5/2009	Gautam Savani
					TLI	SM2540C	TDS	2/6/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	2/10/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	2/5/2009	Tina Acquiat
SC-100B	SC-100B-WDR-193	C. Knight	3/4/2009	11:52:00 AM	TLI	EPA 120.1	SC	3/5/2009	Tina Acquiat
					TLI	EPA 200.7	B	3/16/2009	Daniel Kang
					TLI	EPA 200.7	FE	3/16/2009	Daniel Kang
					TLI	EPA 200.7	MN	3/16/2009	Daniel Kang
					TLI	EPA 200.8	SB	3/15/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	BA	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	ZN	3/15/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	PB	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	NI	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	MO	3/15/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	CR	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	AS	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	AL	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 200.8	CU	3/17/2009	Romuel Chaves/Mark Kotani
					TLI	EPA 218.6	CR6	3/6/2009	Michael Nonezyan
					TLI	EPA 300.0	NO3N	3/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	3/9/2009	Giawad Ghenniwa
					TLI	EPA 300.0	FL	3/5/2009	Giawad Ghenniwa
					FIELD	HACH	PH	3/4/2009	C. Knight
					TLI	SM2130B	TRB	3/5/2009	Gautam Savani
					TLI	SM2540C	TDS	3/6/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	3/10/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	3/5/2009	Tina Acquiat
SC-700B	SC-700B-WDR-185	J.Aide	1/9/2009	8:10:00 AM	TLI	EPA 120.1	SC	1/13/2009	Tina Acquiat
					TLI	EPA 200.7	FE	1/16/2009	Daniel Kang
					TLI	EPA 200.7	B	1/13/2009	Daniel Kang

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-700B	SC-700B-WDR-185	J.Aide	1/9/2009	8:10:00 AM	TLI	EPA 200.8	MN	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	CR	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	BA	1/21/2009	Romuel Chaves
					TLI	EPA 200.8	AS	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	AL	1/21/2009	Romuel Chaves
					TLI	EPA 200.8	PB	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	SB	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	NI	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	CU	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	MO	1/20/2009	Romuel Chaves
					TLI	EPA 200.8	ZN	1/20/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	1/12/2009	Michael Nonezyan
					TLI	EPA 300.0	NO3N	1/9/2009	Giawad Ghenniwa
					TLI	EPA 300.0	FL	1/13/2009	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	1/13/2009	Giawad Ghenniwa
					FIELD	HACH	PH	1/7/2009	J. Aide
					TLI	SM2130B	TRB	1/9/2009	Gautam Savani
					TLI	SM2540C	TDS	1/13/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	1/13/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	1/9/2009	Tina Acquiat
SC-700B	SC-700B-WDR-186	John Deetz	1/14/2009	8:10:00 AM	TLI	EPA 120.1	SC	1/15/2009	Tina Acquiat
					TLI	EPA 200.8	CR	1/15/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	1/15/2009	Michael Nonezyan
					FIELD	HACH	PH	1/14/2009	John Deetz
					TLI	SM2130B	TRB	1/15/2009	Gautam Savani
					TLI	SM2540C	TDS	1/15/2009	Tina Acquiat
SC-700B	SC-700B-WDR-187	J. Aide	1/20/2009	7:35:00 AM	TLI	EPA 120.1	SC	1/21/2009	Tina Acquiat
					TLI	EPA 200.8	CR	1/21/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	1/21/2009	Michael Nonezyan
					FIELD	HACH	PH	1/20/2009	J. Aide
					TLI	SM2130B	TRB	1/20/2009	Gautam Savani
					TLI	SM2540C	TDS	1/23/2009	Tina Acquiat
SC-700B	SC-700B-WDR-188	J.Aide	1/28/2009	8:00:00 AM	TLI	EPA 120.1	SC	1/29/2009	Tina Acquiat
					TLI	EPA 200.8	CR	1/30/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	1/29/2009	Michael Nonezyan
					FIELD	HACH	PH	1/28/2009	J. Aide

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-700B	SC-700B-WDR-188	J.Aide	1/28/2009	8:00:00 AM	TLI	SM2130B	TRB	1/29/2009	Gautam Savani
					TLI	SM2540C	TDS	1/29/2009	Tina Acquiat
SC-700B	SC-700B-WDR-189	J. Aide	2/4/2009	8:00:00 AM	TLI	EPA 120.1	SC	2/5/2009	Tina Acquiat
					TLI	EPA 200.7	MN	2/11/2009	Mark Kotani
					TLI	EPA 200.7	B	2/11/2009	Mark Kotani
					TLI	EPA 200.7	FE	2/11/2009	Mark Kotani
					TLI	EPA 200.8	ZN	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	CR	2/18/2009	Romuel Chaves
					TLI	EPA 200.8	CU	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	MO	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	NI	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	PB	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	SB	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	BA	2/28/2009	Romuel Chaves
					TLI	EPA 200.8	AL	2/25/2009	Romuel Chaves
					TLI	EPA 200.8	AS	2/25/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	2/5/2009	Michael Nonezyan
					TLI	EPA 300.0	FL	2/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	2/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	2/5/2009	Giawad Ghenniwa
					FIELD	HACH	PH	2/4/2009	J. Aide
					TLI	SM2130B	TRB	2/5/2009	Gautam Savani
					TLI	SM2540C	TDS	2/6/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	2/10/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	2/5/2009	Tina Acquiat
SC-700B	SC-700B-WDR-190	J. Aide	2/11/2009	8:00:00 AM	TLI	EPA 120.1	SC	2/12/2009	Tina Acquiat
					TLI	EPA 200.8	CR	2/19/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	2/12/2009	Michael Nonezyan
					FIELD	HACH	PH	2/11/2009	J. Aide
					TLI	SM2130B	TRB	2/12/2009	Gautam Savani
					TLI	SM2540C	TDS	2/13/2009	Tina Acquiat
SC-700B	SC-700B-WDR-191	J. Aide	2/17/2009	8:00:00 AM	TLI	EPA 120.1	SC	2/19/2009	Tina Acquiat
					TLI	EPA 200.8	CR	2/19/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	2/19/2009	Michael Nonezyan
					FIELD	HACH	PH	2/17/2009	J. Aide
					TLI	SM2130B	TRB	2/18/2009	Gautam Savani

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-700B	SC-700B-WDR-191	J. Aide	2/17/2009	8:00:00 AM	TLI	SM2540C	TDS	2/20/2009	Tina Acquiat
SC-700B	SC-700B-WDR-192	J. Aide	2/25/2009	7:35:00 AM	TLI	EPA 120.1	SC	2/26/2009	Tina Acquiat
					TLI	EPA 200.8	CR	2/27/2009	Romuel Chaves
					TLI	EPA 218.6	CR6	2/26/2009	Michael Nonezyan
					FIELD	HACH	PH	2/25/2009	J. Aide
					TLI	SM2130B	TRB	2/26/2009	Gautam Savani
					TLI	SM2540C	TDS	2/26/2009	Tina Acquiat
SC-700B	SC-700B-WDR-193	C. Knight	3/4/2009	11:58:00 AM	TLI	EPA 120.1	SC	3/5/2009	Tina Acquiat
					TLI	EPA 200.7	FE	3/16/2009	Daniel Kang
					TLI	EPA 200.7	MN	3/16/2009	Daniel Kang
					TLI	EPA 200.7	B	3/16/2009	Daniel Kang
					TLI	EPA 200.8	ZN	3/15/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	AL	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	AS	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	BA	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CR	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CU	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	MO	3/15/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	NI	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	PB	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	SB	3/15/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 218.6	CR6	3/6/2009	Michael Nonezyan
					TLI	EPA 300.0	FL	3/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	NO3N	3/5/2009	Giawad Ghenniwa
					TLI	EPA 300.0	SO4	3/5/2009	Giawad Ghenniwa
					FIELD	HACH	PH	3/4/2009	C. Knight
					TLI	SM2130B	TRB	3/5/2009	Gautam Savani
					TLI	SM2540C	TDS	3/6/2009	Tina Acquiat
					TLI	SM4500NH3D	NH3N	3/10/2009	Iordan Stavrev
					TLI	SM4500NO2B	NO2N	3/5/2009	Tina Acquiat
SC-700B	SC-700B-WDR-194	J.Aide	3/11/2009	8:15:00 AM	TLI	EPA 120.1	SC	3/12/2009	Tina Acquiat
					TLI	EPA 200.7	CR	3/13/2009	Daniel Kang
					TLI	EPA 218.6	CR6	3/12/2009	Michael Nonezyan
					FIELD	HACH	PH	3/11/2009	J. Aide
					TLI	SM2130B	TRB	3/12/2009	Gautam Savani
					TLI	SM2540C	TDS	3/12/2009	Tina Acquiat

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-700B	SC-700B-WDR-195	J. Aide	3/17/2009	8:25:00 AM	TLI	EPA 120.1	SC	3/18/2009	Tina Acquiat
					TLI	EPA 200.7	CR	3/19/2009	Daniel Kang
					TLI	EPA 218.6	CR6	3/18/2009	Michael Nonezyan
					FIELD	HACH	PH	3/17/2009	J. Aide
					TLI	SM2130B	TRB	3/18/2009	Gautam Savani
					TLI	SM2540C	TDS	3/18/2009	Tina Acquiat
SC-700B	SC-700B-WDR-196	J. Aide	3/25/2009	8:00:00 AM	TLI	EPA 120.1	SC	3/27/2009	Tina Acquiat
					TLI	EPA 200.8	CR	4/1/2009	Romuel Chavez
					TLI	EPA 218.6	CR6	3/31/2009	Michael Nonezyan
					FIELD	HACH	PH	3/25/2009	J. Aide
					TLI	SM2130B	TRB	3/26/2009	Gautam Savani
					TLI	SM2540C	TDS	3/27/2009	Tina Acquiat
SC-701	SC-701-WDR-193	C. Knight	3/4/2009	12:03:00 PM	TLI	EPA 120.1	SC	3/5/2009	Tina Acquiat
					TLI	EPA 200.8	NI	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	PB	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	AS	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	SB	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	ZN	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	V	3/24/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	BA	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	SE	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	AG	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	MO	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CU	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CR	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CO	3/24/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	CD	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	BE	3/24/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 200.8	TL	3/17/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 218.6	CR6	3/6/2009	Michael Nonezyan
					TLI	EPA 245.1	HG	3/7/2009	Romuel Chaves\Mark Kotani
					TLI	EPA 300.0	FL	3/5/2009	Giawad Ghenniwa
					FIELD	HACH	PH	3/4/2009	C. Knight
					TLI	SM2540C	TDS	3/6/2009	Tina Acquiat
Phase Seperator	SC-Sludge-WDR-193	C. Knight	3/4/2009	10:00:00 AM	TLI	EPA 300.0	FL	3/9/2009	Giawad Ghenniwa

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
Phase Separator	SC-Sludge-WDR-193	C. Knight	3/4/2009	10:00:00 AM	TLI	EPA 6010B	CU	3/24/2009	Hao Ton
					TLI	EPA 6010B	AG	3/24/2009	Hao Ton
					TLI	EPA 6010B	BA	3/24/2009	Hao Ton
					TLI	EPA 6010B	BE	3/24/2009	Hao Ton
					TLI	EPA 6010B	CD	3/24/2009	Hao Ton
					TLI	EPA 6010B	CR	4/1/2009	Hao Ton
					TLI	EPA 6010B	NI	3/24/2009	Hao Ton
					TLI	EPA 6010B	PB	3/24/2009	Hao Ton
					TLI	EPA 6010B	TL	3/24/2009	Hao Ton
					TLI	EPA 6010B	V	3/24/2009	Hao Ton
					TLI	EPA 6010B	ZN	3/24/2009	Hao Ton
					TLI	EPA 6010B	CO	3/24/2009	Hao Ton
					TLI	EPA 7471A	HG	3/16/2009	Romuel Chaves
					TLI	SW 6020A	SB	3/24/2009	Romuel Chaves
					TLI	SW 6020A	SE	4/2/2009	Romuel Chaves
					TLI	SW 6020A	MO	4/2/2009	Romuel Chaves
					TLI	SW 6020A	AS	3/24/2009	Romuel Chaves
					TLI	SW 7199	CR6	3/27/2009	David Blackburn

TABLE 8

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)

Monitoring Information

*First Quarter 2009 Monitoring Report for Interim Measure No.3 Groundwater Treatment System***NOTES:**

SC-700B = Sampling location for all effluent samples is tap on pipe downstream from tank T-700 to injection well IW-2 (see attached P&ID TP-PR-10-10-04).

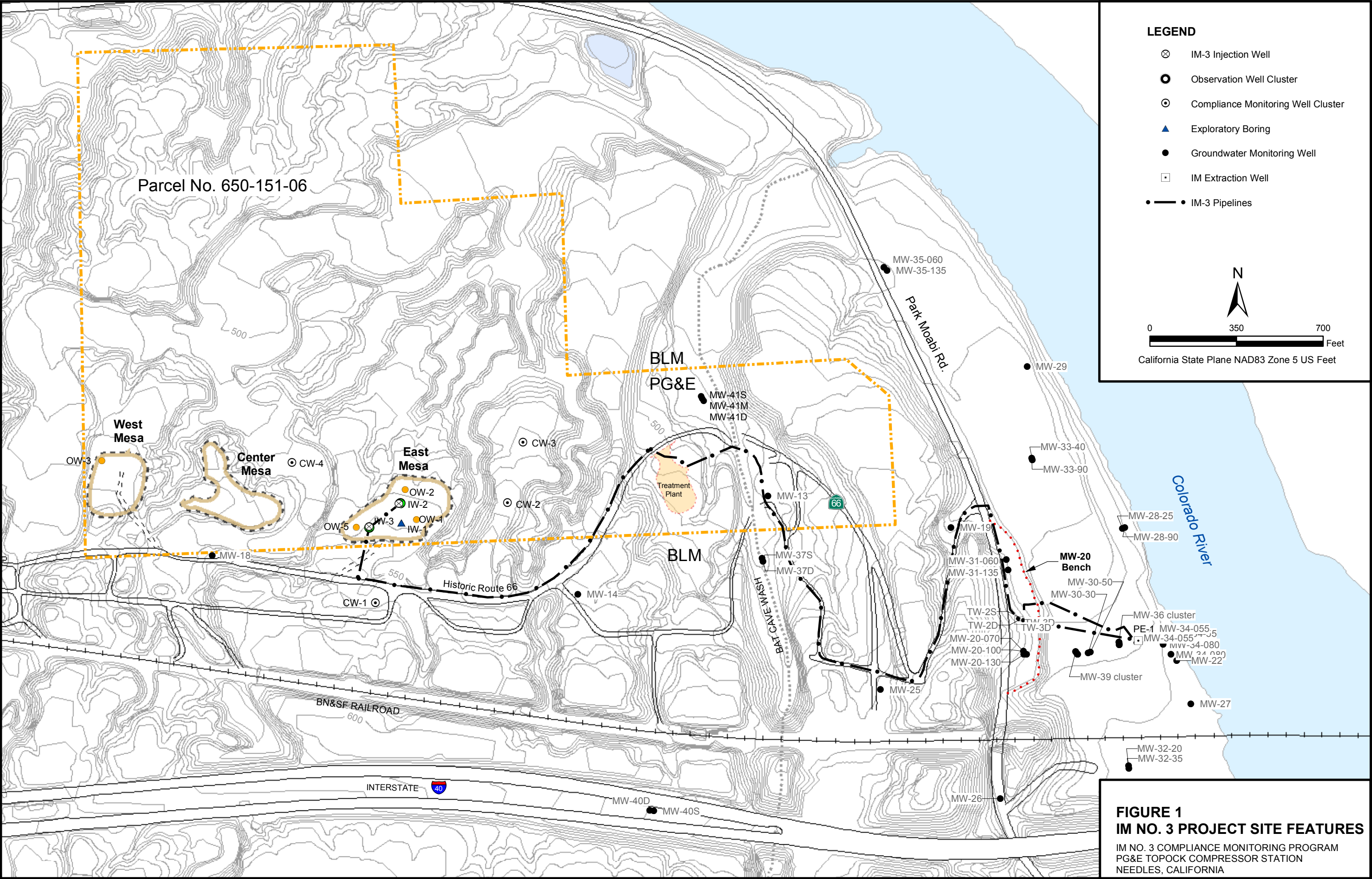
SC-100B = Sampling location for all influent samples is tap on pipe from extraction wells into tank T-100 (see attached P&ID TP-PR-10-10-04).

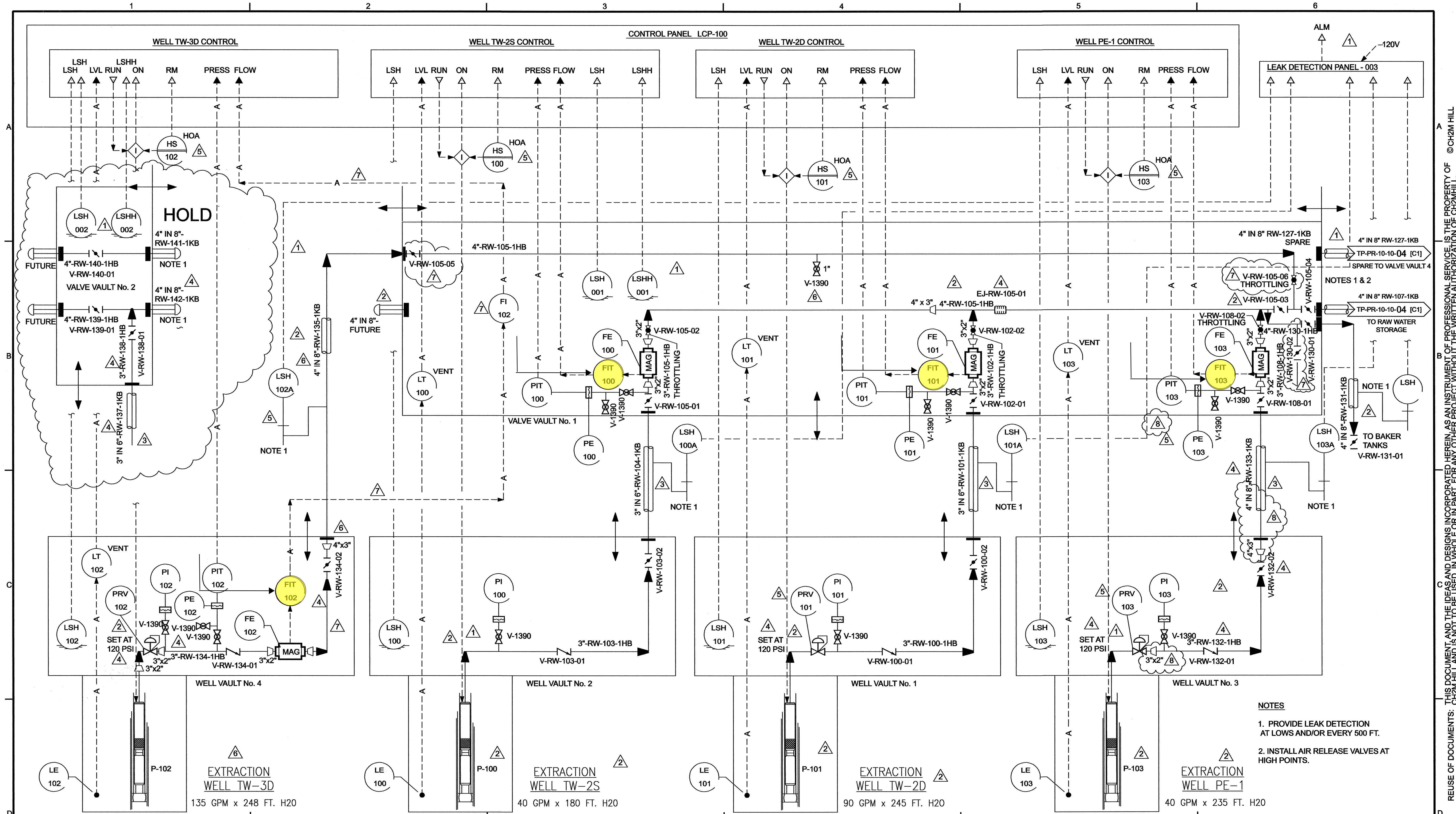
SC-701 = Sampling location for all reverse osmosis samples is tap on pipe T-701 (see attached P&ID TP-PR-10-10-08).

Prior to April 11, 2007 the analytical methods listed in the 40 CFR Part 136 for pH and TDS were E150.1 and E160.1, respectively. Per EPA and Department of Health Services guidelines, the analytical methods listed in the current 40 CFR Part 136 have changed to SM4500-H B and SM2540C as shown on the table.

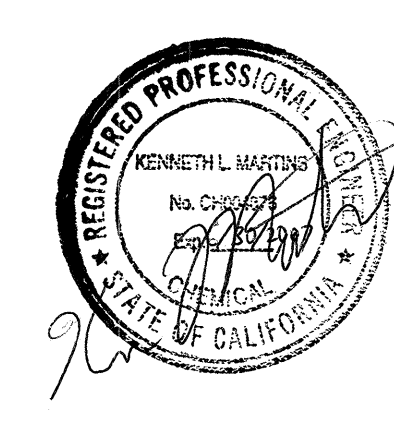
AL =	aluminum	NH3N =	ammonia (as N)
Ag =	silver	NI =	nickel
AS =	arsenic	NO2N =	nitrite (as N)
B =	boron	NO3N =	nitrate (as N)
BA =	barium	PB =	lead
BE =	beryllium	PH =	pH
CD =	cadmium	SB =	antimony
CO =	cobalt	SC =	specific conductance
CR =	chromium	SE =	selenium
CR6 =	hexavalent chromium	SO4 =	sulfate
CU =	copper	TDS =	total dissolved solids
FE =	iron	TL =	thallium
FL =	fluoride	TLI =	Truesdail Laboratories, Inc.
HG =	mercury	TRB =	turbidity
MN =	manganese	V =	vanadium
MO =	molybdenum	ZN =	zinc

Figures





- NOTES**
1. PROVIDE LEAK DETECTION AT LOWS AND/OR EVERY 500 FT.
 2. INSTALL AIR RELEASE VALVES AT HIGH POINTS.



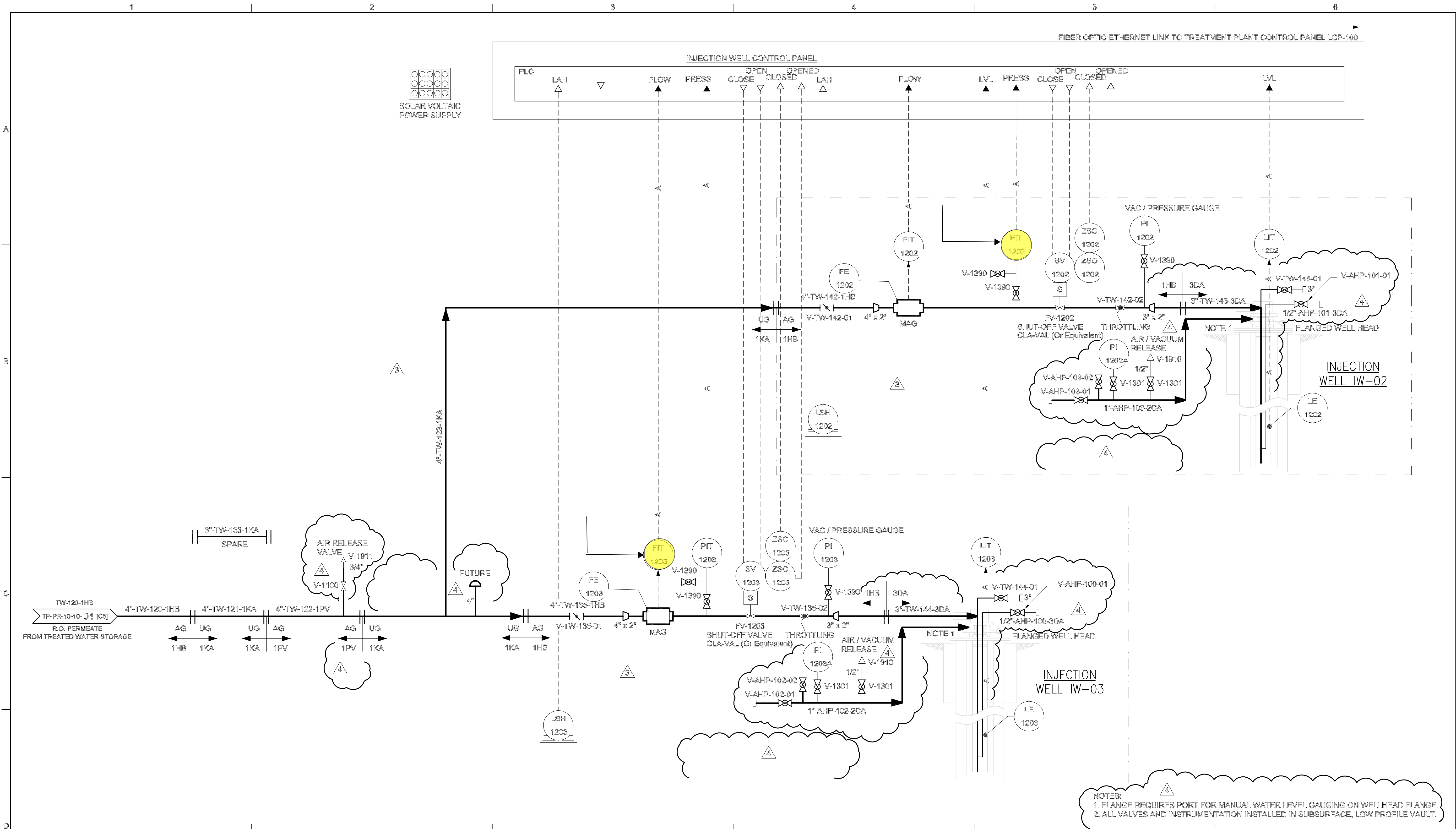
NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 8	DATE 12/06/05	PRINT DISTRIBUTION	STATUS				
									ISSUED	REV	DATE	SDE	PEM
8	12/07/05	REMOVED PE-1 HOLDS	JBW	SDH	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE				
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS				
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	D	07/28/04		
3	03/16/05	DELETED NOTES. APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		FOR REVIEW AND APPROVAL	0	09/03/04	KLM	TP
4	07/20/05	RELIEF VALVE SETTINGS, WELL PE-1 LINE TAGS, HOLDS REMOVED. APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		APPROVED FOR CONSTRUCTION	7	12/19/05		
5	09/27/05	FINAL RECORD ISSUE	EFC	AJ	PIPING	SDH	GEN. ARRANG.		REVISED & APPROVED FOR CONSTRUCTION				
6	10/06/05	REVISED FINAL RECORD - ADDED TW-3D	EFC	AJ									
7	10/19/05	REVISED AS NOTED	EFC	AJ									

SCALE NONE

CH2MHILL

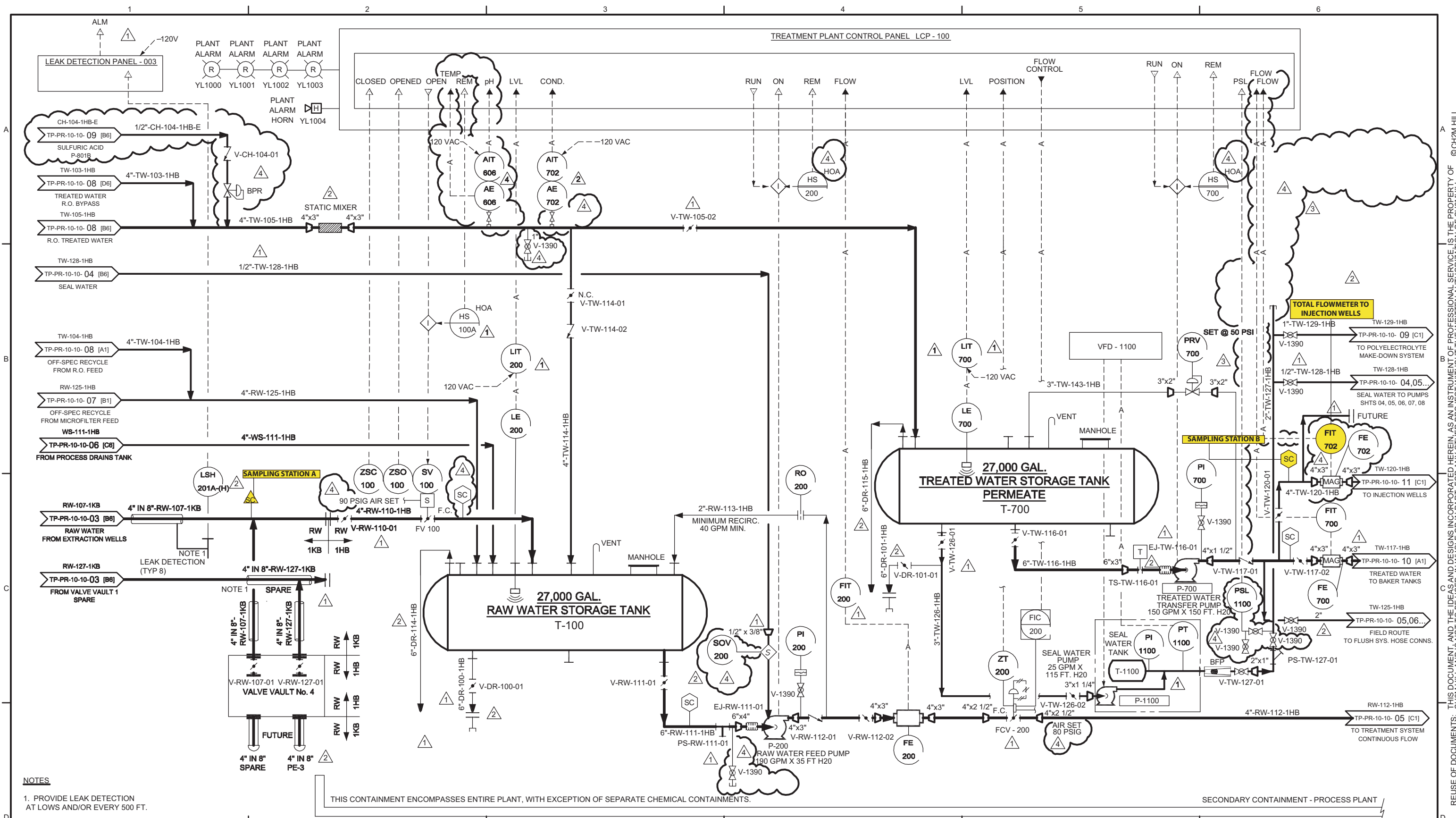
PROCESS AND INSTRUMENTATION DIAGRAM
SHEET 03
EXTRACTION WELLS
PE-1, TW-2D, TW-2S AND TW-3D
DWG. NO. TP-PR-10-10-03 REV. 8

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

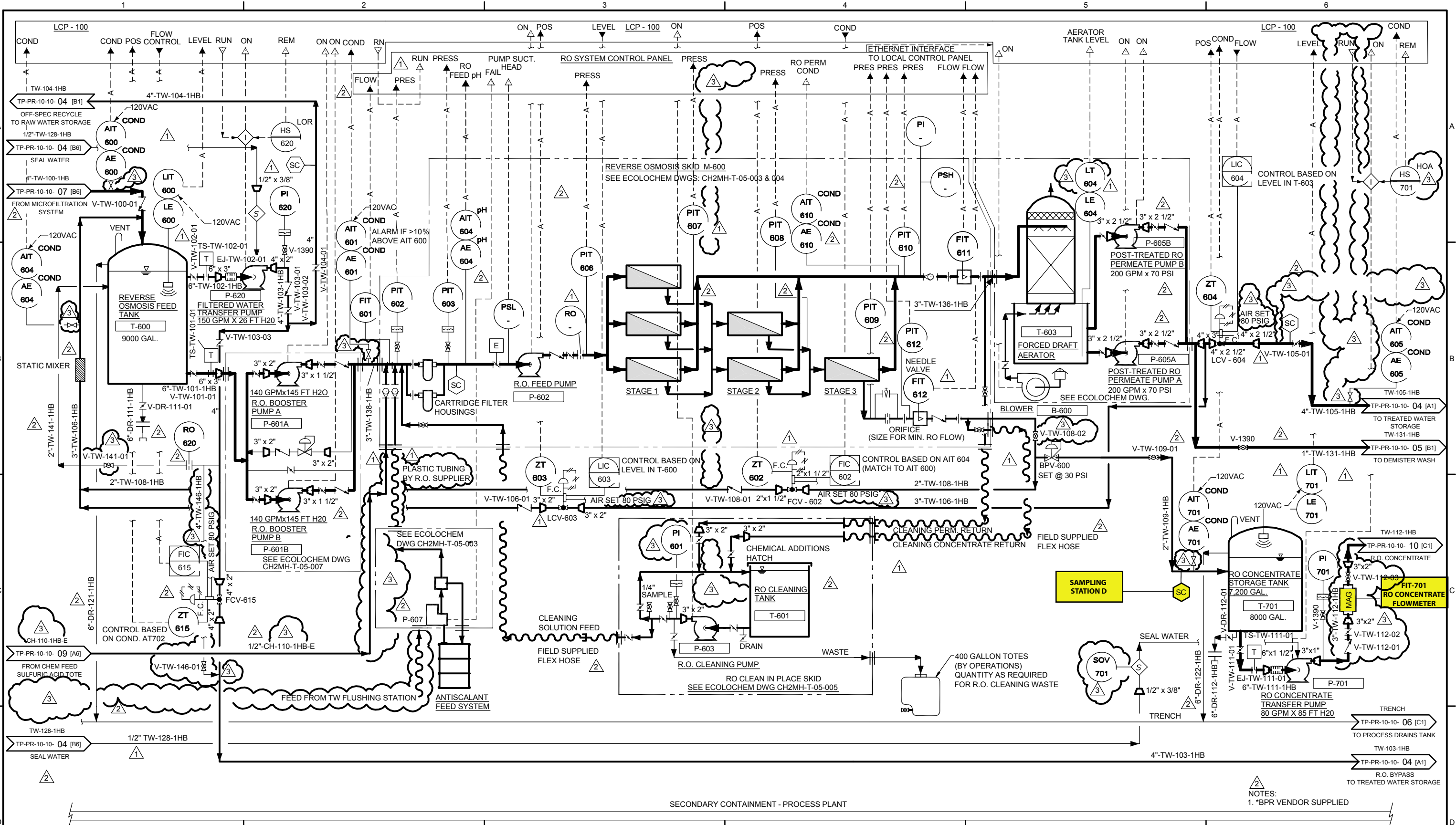


RESPONSIBLE ENGINEER: Kenneth L. Martins PE # CH4876 Exp. 5-30-05	NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 4	DATE 03/10/05	PRINT DISTRIBUTION	STATUS					PACIFIC GAS & ELECTRIC CO. TOPOCK COMPRESSOR STATION INTERIM MEASURE 3 EXPANDED GROUNDWATER EXTRACTION AND TREATMENT SYSTEM PROJ NO. 315994	PROCESS AND INSTRUMENTATION DIAGRAM SHEET 11 INJECTION WELLS	
	A	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE	PEM			
	0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL	ELECTRICAL	STATUS	PRELIMINARY								
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL	INST & CONTROL	REV.	FOR REVIEW AND APPROVAL	A	07/28/04						
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL	ARCHITECTURAL	CLIENT	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP				
	3	02/14/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS	ENVIRONMENTAL	FIELD	REVISED & APPROVED FOR CONSTRUCTION	4	/ /						
	4	03/10/05	REMOVED HOLD AND APPROVED FOR CONSTRUCTION	EFC	AJ	PIPING	GEN. ARRANG.	INTRA CO.									

SCALE		NONE		CH2MHILL	DWG. NO. TP-PR-10-10-11	REV. 4



RESPONSIBLE ENGINEER: Kenneth L. Martins CH4876 PE #	NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 4	DATE 09/21/05	PRINT DISTRIBUTION	STATUS					PACIFIC GAS & ELECTRIC CO. TOPOCK COMPRESSOR STATION INTERIM MEASURE 3 EXPANDED GROUNDWATER EXTRACTION AND TREATMENT SYSTEM PROJ NO. 315994	PROCESS AND INSTRUMENTATION DIAGRAM SHEET 04 STORAGE AREA		
	0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE				PEM
	0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS	PRELIMINARY							
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	FOR REVIEW AND APPROVAL	D	07/28/04					
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM				TP
	3	02/14/05	ADDED RECIRC. LINE AND PRV VALVE TO T-700 - APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD	REVISED & APPROVED FOR CONSTRUCTION	4	/ /					
	4	09/21/05	REVISED PER AS-BUILT CONDITIONS	EFC	AJ	PIPING		GEN. ARRANG.		INTRA CO.								
										SCALE NONE					CH2MHILL		DWG. NO. TP-PR-10-10-04	REV. 4



RESPONSIBLE ENGINEER: Kenneth L. Martins PE # CH43876 Exp. 6-30-06	NO.	DATE	REVISION		BY	CHK	REVISION APPROVAL		REV 3	DATE 09/21/05	PRINT DISTRIBUTION		STATUS					PACIFIC GAS & ELECTRIC CO. TOPOCK COMPRESSOR STATION INTERIM MEASURE 3 EXPANDED GROUNDWATER EXTRACTION AND TREATMENT SYSTEM PROJ NO. 315994				PROCESS AND INSTRUMENTATION DIAGRAM SHEET 08 REVERSE OSMOSIS SYSTEM			
	0	07/28/04	FOR INTERNAL REVIEW		EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE		ISSUED	REV	DATE	SDE	PEM								
	0	09/03/04	APPROVED FOR CONSTRUCTION		EFC	AJ	CIVIL		ELECTRICAL		STATUS		PRELIMINARY												
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION		EFC	AJ	STRUCTURAL		INST & CONTROL		REV.		FOR REVIEW AND APPROVAL	D	07/28/04										
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION		EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT		APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP								
	3	09/21/05	REVISED PER AS-BUILT CONDITIONS		EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD		REVISED & APPROVED FOR CONSTRUCTION	3	/ /										
							PIPING		GEN. ARRANG.		INTRA CO.														
												SCALE NONE					CH2MHILL				DWG. NO. TP-PR-10-10-08		REV. 3		

Appendix A
First Quarter 2009 Laboratory Analytical Reports

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

January 23, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-185 PROJECT, GROUNDWATER
MONITORING,

TLI NO.: 981060

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-185 project groundwater monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

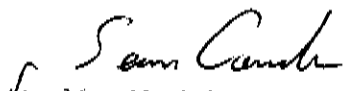
The samples were received and delivered with the chain of custody on January 9, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

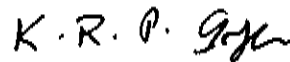
The chain of custody indicated the samples were collected on January 7, 2009. The collection date on the sample containers was January 9, 2009. Mr. Shawn Duffy of CH2M Hill verified the samples were collected on January 9, 2009.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.


to Mona Nassimi
Manager, Analytical Services


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

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

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

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

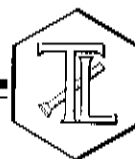
Received: January 9, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 B	Ammonia	Iordan Stavrev
SM 4500-NO2 B	Nitrite as N	Tina Acquiat
EPA 200.7	Metals by ICP	Daniel Kang
EPA 200.8	Metals by ICP/MS	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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Oakland, CA 94612

Attention: Shawn Duffy

Sample: Two (2) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

REPORT

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

Laboratory No.: 981060

Date: January 23, 2009
Collected: January 9, 2009
Received: January 9, 2009
Prep/ Analyzed: January 13, 2009
Analytical Batch: 01EC09E

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981060-1	SC-700B-WDR-185	µmhos/cm	EPA 120.1	1.00	2.00	6670
981060-2	SC-100B-WDR-185	µmhos/cm	EPA 120.1	1.00	2.00	7850

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	981061-2	8450	8460	0.12%	≤ 10%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<2.00	---	<2.00	Yes
CCS	699	706	99.0%	90% - 110%	Yes
CVS#1	986	1000	98.6%	90% - 110%	Yes
LCS	700	706	99.2%	90% - 110%	Yes
LCSD	700	706	99.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Canale
Mona Nassimi, Manager
Analytical Services

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EXCELLENCE IN INDEPENDENT TESTING



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www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 981060

Date: January 23, 2009

Sample: Two (2) Groundwaters
Project Name: PG&E Topock Project

Collected: January 9, 2009

Project No.: 379209.01.03.01

Received: January 9, 2009

P.O. No.: 379209.01.03.01

Prep/ Analyzed: January 13, 2009

Analytical Batch: 01TDS09F

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981060-1	SC-700B-WDR-185	mg/L	SM 2540C	250	4200
981060-2	SC-100B-WDR-185	mg/L	SM 2540C	250	4840

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	981061-2	5770	5700	0.61%	≤ 5%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	500	500	100%	90% - 110%	Yes
LCS 2	504	500	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

For Sam Nassimi
Mona Nassimi, Manager
Analytical Services

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155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

REPORT

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

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 9, 2009

Analytical Batch: 01TUC09E

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981060-1	SC-700B-WDR-185	08:10	NTU	1.00	0.100	0.119
981060-2	SC-100B-WDR-185	08:10	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981060-2	ND	ND	0.00%	< 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.50	8.00	93.8%	90% - 110%	Yes
LCS	7.56	8.00	94.5%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

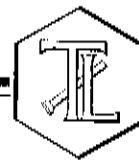
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Prep. Batch: 01CrH09D

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 12, 2009

Analytical Batch: 01CrH09D

Investigation:

Hexavalent Chromium by IC Using Method EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	16:24	µg/L	1.05	0.20	ND
981060-2	SC-100B-WDR-185	08:10	16:34	µg/L	105	21.0	1370

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981060-1 (5.25x)	ND	ND	0.00%	≤ 20%	Yes

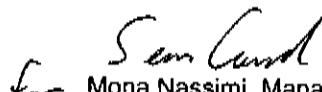
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981060-1	0.00	1.06	1.00	1.06	1.11	1.06	105%	90-110%	Yes
MS	981060-2	1370	105	15.0	1575	3010	2945	104%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCCS	5.00	5.00	100%	90% - 110%	Yes
MRCVS#1	10.3	10.0	103%	95% - 105%	Yes
MRCVS#2	10.4	10.0	104%	95% - 105%	Yes
LCS	5.04	5.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

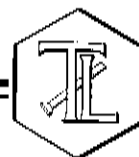
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

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

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 13, 2009

Analytical Batch: 01NH3-E09C

Investigation:

Ammonia as N by Method SM 4500-NH3 D

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	SM 4500-NH3 D	mg/L	1.00	0.500	ND
981060-2	SC-100B-WDR-185	08:10	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		981060-1		ND		ND		0.00%		≤ 20%		Yes	

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981060-2	0.00	1.00	6.00	6.00	6.27	6.00	105%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCSS	5.59	6.00	93.2%	90% - 110%	Yes
MRCVS#1	6.00	6.00	100%	90% - 110%	Yes
LCS	10.6	10.0	106%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 13, 2009

Analytical Batch: 01AN09H

Investigation: Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	13:20	mg/L	1.00	0.500	2.42
981060-2	SC-100B-WDR-185	08:10	13:31	mg/L	1.00	0.500	2.79

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981062	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981062	0.00	1.00	2.00	2.00	2.10	2.00	105%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCQS	4.13	4.00	103%	90% - 110%	Yes
MRCVS#1	3.13	3.00	104%	90% - 110%	Yes
MRCVS#2	3.13	3.00	104%	90% - 110%	Yes
MRCVS#3	3.12	3.00	104%	90% - 110%	Yes
LCS	4.12	4.00	103%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

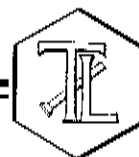
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 13, 2009

Analytical Batch: 01AN09H

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	11:26	mg/L	25	12.5	521
981060-2	SC-100B-WDR-185	08:10	11:37	mg/L	100	50.0	633

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981060-2	633	634	0.16%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981060-2	633	100	10.0	1000	1680	1633	105%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCSS	20.5	20.0	103%	90% - 110%	Yes
MRCVS#1	15.1	15.0	101%	90% - 110%	Yes
MRCVS#2	15.1	15.0	101%	90% - 110%	Yes
MRCVS#3	15.1	15.0	101%	90% - 110%	Yes
LCS	20.4	20.0	102%	90% - 110%	Yes

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DF: Dilution Factor.

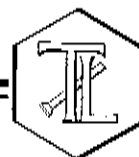
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TRUESDAIL LABORATORIES, INC.

for Sam Canale
Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 9, 2009

Analytical Batch: 01AN09E

Investigation: Nitrate as N by Ion Chromatography using EPA 300.0

Analytical Results Nitrate as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	16:41	mg/L	5.00	1.00	3.08
981060-2	SC-100B-WDR-185	08:10	16:52	mg/L	5.00	1.00	3.76

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981040-1	3.8	3.8	0.26%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981040-1	3.78	1.00	4.00	4.00	7.83	7.78	101%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCSS	4.01	4.00	100%	90% - 110%	Yes
MRCVS#1	3.09	3.00	103%	90% - 110%	Yes
MRCVS#2	3.14	3.00	105%	90% - 110%	Yes
MRCVS#3	3.14	3.00	105%	90% - 110%	Yes
LCS	4.05	4.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Cassel
Mona Nassimi, Manager
Analytical Services

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P.O. No.: 379209.01.03.01

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
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Laboratory No.: 981060

Date: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Prep/ Analyzed: January 9, 2009

Analytical Batch: 01NO209D

Investigation:

Nitrite as N by Method SM 4500-NO2-B

Analytical Results for Nitrite as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981060-1	SC-700B-WDR-185	08:10	16:57	mg/L	1.00	0.0050	ND
981060-2	SC-100B-WDR-185	08:10	16:58	mg/L	1.00	0.0050	ND

QA/QC Summary

QC Summary

QC STD I.D.		Laboratory Number		Concentration	Duplicate Concentration		Relative Percent Difference	Acceptance limits	QC Within Control	
Duplicate		981060-1		ND	ND		0.00%	< 20%	Yes	

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981060-1	0.00	1.00	0.0200	0.0200	0.0192	0.0200	96.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.0050	---	<0.0050	Yes
MRCCS	0.0352	0.0370	95.1%	90% - 110%	Yes
MRCVS#1	0.0193	0.0200	96.5%	90% - 110%	Yes
LCS	0.0373	0.0370	101%	90% - 110%	Yes
LCSD	0.0372	0.0370	101%	90% - 110%	Yes

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

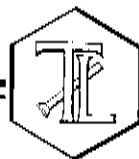
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Shawn Duffy
for Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

REPORT

14201 FRANKLIN AVENUE
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(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Laboratory No.: 981060

Reported: January 23, 2009

Collected: January 9, 2009

Received: January 9, 2009

Analyzed: See Below

Samples: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Investigation: Total Metal Analyses as Requested

Analytical Results

SAMPLE ID: SC-700B-WDR-185		Time Collected: 08:10		LAB ID: 981060-1				
Parameter	Method	Reported				Batch	Date	Time
		Value	DF	Units	RL		Analyzed	Analyzed
Aluminum	EPA 200.8	ND	2.00	µg/L	50.0	012109A	01/21/09	14:47
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	012009A	01/20/09	11:34
Arsenic	EPA 200.8	ND	1.00	µg/L	0.20	012009A	01/20/09	11:19
Barium	EPA 200.8	14.7	2.00	µg/L	10.0	012109A	01/21/09	14:47
Chromium	EPA 200.8	ND	1.00	µg/L	1.00	012009A	01/20/09	11:19
Copper	EPA 200.8	ND	1.00	µg/L	5.00	012009A	01/20/09	11:19
Lead	EPA 200.8	ND	5.00	µg/L	10.0	012009A	01/20/09	11:34
Manganese	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:19
Molybdenum	EPA 200.8	10.3	5.00	µg/L	10.0	012009A	01/20/09	11:34
Nickel	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:19
Zinc	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:19
Boron	EPA 200.7	1110	1.00	µg/L	200	011309A	01/13/09	15:16
Iron	EPA 200.7	ND	1.00	µg/L	20.0	011609A	01/16/09	11:27

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Report Continued

SAMPLE ID: SC-1008-WDR-185		Time Collected: 08:10		LAB ID: 981060-2				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Aluminum	EPA 200.8	ND	1.00	µg/L	50.0	012109A	01/21/09	14:53
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	012009A	01/20/09	11:41
Arsenic	EPA 200.8	1.76	1.00	µg/L	0.20	012009A	01/20/09	11:26
Barium	EPA 200.8	16.5	1.00	µg/L	10.0	012109A	01/21/09	14:53
Chromium	EPA 200.8	1300	5.00	µg/L	1.00	012009A	01/20/09	11:41
Copper	EPA 200.8	ND	1.00	µg/L	5.00	012009A	01/20/09	11:26
Lead	EPA 200.8	ND	5.00	µg/L	10.0	012009A	01/20/09	11:41
Manganese	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:26
Molybdenum	EPA 200.8	18.5	5.00	µg/L	10.0	012009A	01/20/09	11:41
Nickel	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:26
Zinc	EPA 200.8	ND	1.00	µg/L	10.0	012009A	01/20/09	11:26
Boron	EPA 200.7	1180	1.00	µg/L	200	011309A	01/13/09	15:33
Iron	EPA 200.7	ND	1.00	µg/L	20.0	011609A	01/16/09	14:32

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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CHAIN OF CUSTODY RECORD

COC Number IM3Plant-WDR-185

TURNAROUND TIME 10 Days

DATE 01/07/09

PAGE 1 OF 1

981060

[IM3Plant-WDR-185]

COMPANY	CH2M HILL /E2	DATE	TIME	DESCRIPTION	SAMPLE I.D.	COMMENTS									
PROJECT NAME	PG&E Topock IM3														
PHONE	530-229-3303														
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612														
P.O. NUMBER	379209.01 08.01														
SAMPLERS (SIGNATURE)															
SAMPLE I.D.						NUMBER OF CONTAINERS									
SC-700B-WDR-185						3									
SC-100B-WDR-185						100B									
						PH 7.2									
						EC 7.56									
						Temp 77.0									
						GR 000									
						TOTAL NUMBER OF CONTAINERS									
						6									

ALERT!!

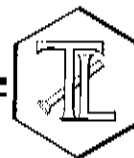
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SAMPLE CONDITIONS RECEIVED <input type="checkbox"/> COOL <input type="checkbox"/> WARM <input type="checkbox"/> °F CUSTODY SEALED YES <input type="checkbox"/> NO <input type="checkbox"/>
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS: The metals include: Cr, Al, Sb, As, Ba, B, Cu, Pb, Mn, Mo, Ni, Fe, Zn
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	

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January 23, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-186 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 981143

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-186 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on January 14, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

The straight run for the matrix spike for sample for Hexavalent Chromium analysis by EPA 218.6 was just outside the retention time window. Because the matrix spike recovery was within acceptable limits and the results from the 5x dilution agree with those from the straight run, the data from the straight run is reported.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

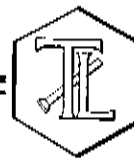
for Sam Candia
Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

Laboratory No.: 981143

Date: January 23, 2009

Collected: January 14, 2009

Received: January 14, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiati
SM 2540C	Total Dissolved Solids	Tina Acquiati
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Prep. Batch: 011509A

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Laboratory No.: 981143

Date: January 23, 2009

Collected: January 14, 2009

Received: January 14, 2009

Prep/ Analyzed: January 15, 2009

Analytical Batch: 011509A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981143	SC-700B-WDR-186	µg/L	EPA 200.8	14:51	1.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981017-1	24.3	24.4	0.41%	≤20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981017-1	24.3	1.00	50.0	50.0	71.8	74.3	95.0%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCSS	50.5	50.0	101%	90% - 110%	Yes
MRCVS#1	51.1	50.0	102%	90% - 110%	Yes
MRCVS#2	51.7	50.0	103%	90% - 110%	Yes
MRCVS#3	49.9	50.0	99.8%	90% - 110%	Yes
ICS	51.1	50.0	102%	80% - 120%	Yes
LCS	49.8	50.0	99.6%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Laboratory No.: 981143

Sample: One (1) Groundwater Sample

Date: January 23, 2009

Project Name: PG&E Topock Project

Collected: January 14, 2009

Project No.: 379209.01.02

Received: January 14, 2009

P.O. No.: 379209.01.02

Prep/ Analyzed: January 15, 2009

Analytical Batch: 01CrH09H

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981143	SC-700B-WDR-186	08:10	11:32	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981142-1	1030	1050	1.92%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981143	0.00	1.06	1.00	1.06	1.15	1.06	108%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCCS	5.03	5.00	101%	90% - 110%	Yes
MRCVS#1	10.00	10.0	100%	95% - 105%	Yes
MRCVS#2	9.95	10.0	99.5%	95% - 105%	Yes
MRCVS#3	9.8	10.0	98.3%	95% - 105%	Yes
LCS	5.05	5.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Canale
Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981143

Date: January 23, 2009

Collected: January 14, 2009

Received: January 14, 2009

Prep/ Analyzed: January 15, 2009

Analytical Batch: 01TUC09J

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981143	SC-700B-WDR-186	08:10	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981137-24	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	8.15	8.00	102%	90% - 110%	Yes
LCS	8.03	8.00	100%	90% - 110%	Yes
LCS	8.07	8.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sem Canab
Mona Nassimi, Manager
Analytical Services

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

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981143

Date: January 23, 2009

Collected: January 14, 2009

Received: January 14, 2009

Prep/ Analyzed: January 15, 2009

Analytical Batch: 01EC09F

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981143	SC-700B-WDR-186	µmhos/cm	EPA 120.1	1.00	2.00	6560

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981143	6560	6570	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	700	706	99.2%	90% - 110%	Yes
CVS#1	979	1000	97.9%	90% - 110%	Yes
CVS#2	980	1000	98.0%	90% - 110%	Yes
LCS	700	706	99.2%	90% - 110%	Yes
LCSD	700	706	99.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Candi
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981143

Date: January 23, 2009

Collected: January 14, 2009

Received: January 14, 2009

Prep/ Analyzed: January 15, 2009

Analytical Batch: 01TDS09H

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981143	SC-700B-WDR-186	mg/L	SM 2540C	250	4100

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981143	4100	4080	0.24%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	496	500	99.8%	90% - 110%	Yes
LCS 2	498	500	99.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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(714) 730-4239 FAX: (714) 730-4462
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CHAIN OF CUSTODY RECORD

[IM3Plamt-WDR-186]

Rec'd 01/14/09
9811143

COC Number

TURNAROUND TIME

DATE 01/14/09

PAGE 1 OF 1

COMPANY	E2	DATE	01/14/09	TIME	8:10	DESCRIPTION	Water	
PROJECT NAME	PG&E Topock							
PHONE	(530) 229-3303	FAX	(530) 339-3303					
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612							
P.O. NUMBER	379209.01.02	TEAM	1					
SAMPLERS (SIGNATURE)								
SAMPLE ID.	SC-700B-WDR-186	DATE	01/14/09	TIME	8:10	DESCRIPTION	Water	
		Cr6 (218.6) Lab Filtered	X	X	X	X	X	
		Total Metals (200.7) Total Chromium	X	X	X	X	X	
		Specific Conductance (120.1)	X	X	X	X	X	
		TDS (SM2540C)	X	X	X	X	X	
		Turbidity (SM2130)	X	X	X	X	X	
		NUMBER OF CONTAINERS	3					PH-7
		COMMENTS	pH-7.3 EC-3.94 Temp-83° Gr6-.000 C(T)-.003					TOTAL NUMBER OF CONTAINERS
			3					

ALERT!!

Level III QC

See Sample Condition
See Form Attachment

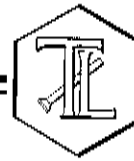
CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	John Doe	Printed Name	John Doe	Company/ Agency	bm	Date/ Time	1-14-09 0830
Signature (Received)	Rafael Davila	Printed Name	Rafael Davila	Company/ Agency	T.L.I	Date/ Time	1-14-09 15:09
Signature (Relinquished)	Rafael Davila	Printed Name	Rafael Davila	Company/ Agency	T.L.I	Date/ Time	1-14-09 20:30
Signature (Received)	Rafael Davila	Printed Name	Rafael Davila	Company/ Agency	T.L.I	Date/ Time	1-14-09 20:30
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

RECEIVED	COOL	WARM	°F
CUSTODY SEALED	YES	NO	
SPECIAL REQUIREMENTS:			

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www.truesdail.com

February 2, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-187 PROJECT, GROUNDWATER
MONITORING, TLI No.: 981233

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-187 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on January 20, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

The straight run for the matrix spike for sample for Hexavalent Chromium analysis by EPA 218.6 was just outside the retention time window. Because the matrix spike recovery was within acceptable limits and the results from the 5x dilution agree with those from the straight run, the data from the straight run is reported.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Seem Candia
for Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

Laboratory No.: 981233

Date: February 2, 2009

Collected: January 20, 2009

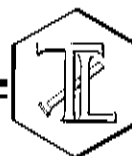
Received: January 20, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiati
SM 2540C	Total Dissolved Solids	Tina Acquiati
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

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

Laboratory No.: 981233

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02
Prep. Batch: 012109A

Date: February 2, 2009
Collected: January 20, 2009
Received: January 20, 2009
Prep/ Analyzed: January 21, 2009
Analytical Batch: 012109A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
981233	SC-700B-WDR-187	µg/L	EPA 200.8	11:42	1.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	980448-17	6.43	6.60	2.61%	≤20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	980448-17	6.43	1.00	50.0	50.0	57.0	56.4	101%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	—	<1.00	Yes
MRCCS	49.0	50.0	98.0%	90% - 110%	Yes
MRCVS#1	46.7	50.0	97.4%	90% - 110%	Yes
MRCVS#2	47.4	50.0	94.8%	90% - 110%	Yes
ICS	49.5	50.0	99.0%	80% - 120%	Yes
LCS	46.9	50.0	93.8%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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(714) 730-6239 · FAX (714) 730-6462
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Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 981233

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Date: February 2, 2009
Collected: January 20, 2009
Received: January 20, 2009
Prep/ Analyzed: January 21, 2009
Analytical Batch: 01CrH09J

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981233	SC-700B-WDR-187	07:35	07:18	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981233	ND	ND	0.00%	< 20%	Yes

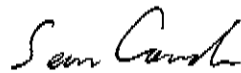
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981233	0.00	1.06	1.00	1.06	1.04	1.06	98.1%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCCS	5.03	5.00	101%	90% - 110%	Yes
MRCVS#1	10.1	10.0	101%	95% - 105%	Yes
MRCVS#2	10.0	10.0	100%	95% - 105%	Yes
LCS	5.04	5.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

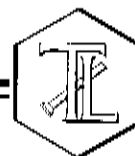
for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981233

Date: February 2, 2009

Collected: January 20, 2009

Received: January 20, 2009

Prep/ Analyzed: January 20, 2009

Analytical Batch: 01TUC09K

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981233	SC-700B-WDR-187	07:35	NTU	1.00	0.100	ND

QA/QC Summary


QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981196-16	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.90	8.00	98.8%	90% - 110%	Yes
LCS	8.05	8.00	101%	90% - 110%	Yes
LCS	7.69	8.00	96.1%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

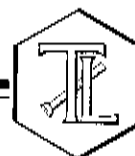
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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www.truesdall.com

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981233

Date: February 2, 2009

Collected: January 20, 2009

Received: January 20, 2009

Prep/ Analyzed: January 21, 2009

Analytical Batch: 01EC09H

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981233	SC-700B-WDR-187	µmhos/cm	EPA 120.1	1.00	2.00	6670

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981233	6670	6680	0.15%	≤ 10%	Yes

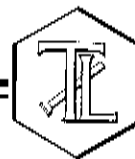
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	700	706	99.2%	90% - 110%	Yes
CVS#1	976	1000	97.6%	90% - 110%	Yes
LCS	700	706	99.2%	90% - 110%	Yes
LCSD	700	706	99.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

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Laboratory No.: 981233

Date: February 2, 2009

Collected: January 20, 2009

Received: January 20, 2009

Prep/ Analyzed: January 23, 2009

Analytical Batch: 01TDS09L

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981233	SC-700B-WDR-187	mg/L	SM 2540C	250	4720

QA/QC Summary

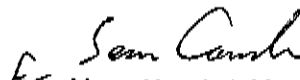
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981262-13	652	655	0.23%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	497	500	99.4%	90% - 110%	Yes
LCS 2	499	500	99.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

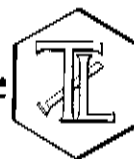
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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February 2, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-188 PROJECT, GROUNDWATER
MONITORING, TLI No.: 981395

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-188 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on January 28, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

The straight run for the matrix spike for sample for Hexavalent Chromium analysis by EPA 218.6 was just outside the retention time window. Because the matrix spike recovery was within acceptable limits and the results from the 5x dilution agree with those from the straight run, the data from the straight run is reported.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Sean Conder
for Mona Nassimi
Manager, Analytical Services

Ali Khanna
for K.R.P. Iyer
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.

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Client: E2 Consulting Engineers, Inc.
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Oakland, CA 94612

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

Laboratory No.: 981395

Date: February 2, 2009

Collected: January 28, 2009

Received: January 28, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezryan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Prep. Batch: 013009A

Laboratory No.: 981395

Date: February 2, 2009

Collected: January 28, 2009

Received: January 28, 2009

Prep/ Analyzed: January 30, 2009

Analytical Batch: 013009A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981395	SC-700B-WDR-188	µg/L	EPA 200.8	11:45	1.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981395	ND	ND	0.00%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981395	0.00	1.00	50.0	50.0	42.2	50.0	84.4%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCCS	51.4	50.0	103%	90% - 110%	Yes
MRCVS#1	52.0	50.0	104%	90% - 110%	Yes
ICS	50.0	50.0	100%	80% - 120%	Yes
LCS	49.1	50.0	98.2%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Conde
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Laboratory No.: 981395

Date: February 2, 2009
Collected: January 28, 2009
Received: January 28, 2009
Prep/ Analyzed: January 29, 2009
Analytical Batch: 01CrH09M

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981395	SC-700B-WDR-188	08:00	12:26	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981395	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981395	0.00	1.06	1.00	1.06	1.03	1.06	97.2%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCCS	4.98	5.00	99.6%	90% - 110%	Yes
MRCVS#1	9.87	10.0	98.7%	95% - 105%	Yes
LCS	4.96	5.00	99.2%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

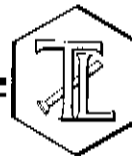
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sean Conahan
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981395

Date: February 2, 2009

Collected: January 28, 2009

Received: January 28, 2009

Prep/ Analyzed: January 29, 2009

Analytical Batch: 01TUC09N

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981395	SC-700B-WDR-188	08:00	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981385-3	0.183	0.185	1.09%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	—	<0.100	Yes
LCS	7.92	8.00	99.0%	90% - 110%	Yes
LCS	7.84	8.00	98.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sean Condon
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981395

Date: February 2, 2009

Collected: January 28, 2009

Received: January 28, 2009

Prep/ Analyzed: January 29, 2009

Analytical Batch: 01EC09N

Investigation:

Specific Conductivity by EPA 120.1


Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981395	SC-700B-WDR-188	µmhos/cm	EPA 120.1	1.00	2.00	6550

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981395	6550	6570	0.30%	≤ 10%	Yes
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control	
Blank	ND	<2.00	---	<2.00	Yes	
CCS	699	706	99.0%	90% - 110%	Yes	
CVS#1	977	1000	97.7%	90% - 110%	Yes	
CVS#2	977	1000	97.7%	90% - 110%	Yes	
LCS	699	706	99.0%	90% - 110%	Yes	
LCSD	699	706	99.0%	90% - 110%	Yes	

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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

REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981395

Date: February 2, 2009

Collected: January 28, 2009

Received: January 28, 2009

Prep/ Analyzed: January 29, 2009

Analytical Batch: 01TDS090

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981395	SC-700B-WDR-188	mg/L	SM 2540C	250	3840

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981395	3840	3780	0.79%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	501	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Nassimi
Mona Nassimi, Manager
Analytical Services

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(714) 730-8239 FAX: (714) 730-4462
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CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-188]

Rec'd 01/28/09
981395

COC Number

TURNAROUND TIME 5 Days

DATE 01/28/09 PAGE 1 OF 1

COMPANY	E2	PROJECT NAME	PG&E Topdock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	379209.01.02	TEAM	1	SAMPLERS (SIGNATURE)		SAMPLE I.D.	SC-700B-WDR-188	DATE	01/28/09	TIME	0800	DESCRIPTION	Water	C6 (2186) Lab Filtered	Total Metals (200.7) Total Chromium	Specific Conductance (120.1)	TDS (SM2540C)	Turbidity (SM2130)	NUMBER OF CONTAINERS	3	COMMENTS	
																		3	PH-7							TOTAL NUMBER OF CONTAINERS						

Temp - 75.7
PH - 7.2
EC - 745
Crb - 0.002
TOTAL - 0.001
Picked 0800
0805
0807
0808
08:24
08:33

ALERT!!
Level III QC

Sample Condition
Not Permitted

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	ONT	1-28-09 1000
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	T.H.I	1-28-09 15:38
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	T.H.I	1-28-09 20:50
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	T.H.I	1-28-09 20:50
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
	Rafael Davila	Company/ Agency	Date/ Time

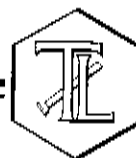
SAMPLE CONDITIONS

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

SPECIAL REQUIREMENTS:

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March 4, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-189 PROJECT, GROUNDWATER
MONITORING,

TLI NO.: 981541

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-189 project groundwater monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 4, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Susan Card
for Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

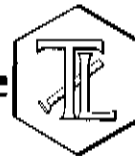
Received: February 4, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiati
SM 2540C	Total Dissolved Solids	Tina Acquiati
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 B	Ammonia	Iordan Stavrev
SM 4500-NO2 B	Nitrite as N	Tina Acquiati
EPA 200.7	Metals by ICP	Mark Kotani
EPA 200.8	Metals by ICP/MS	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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

Attention: Shawn Duffy

REPORT

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TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
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Laboratory No.: 981541

Sample: Two (2) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Date: March 4, 2009
Collected: February 4, 2009
Received: February 4, 2009
Prep/ Analyzed: February 5, 2009
Analytical Batch: 02EC09C

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981541-1	SC-700B-WDR-189	µmhos/cm	EPA 120.1	1.00	2.00	6570
981541-2	SC-100B-WDR-189	µmhos/cm	EPA 120.1	1.00	2.00	7800

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	981541-2	7800	7810	0.13%	≤ 10%	Yes

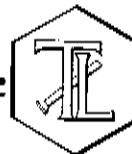
<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<2.00	---	<2.00	Yes
CCS	691	706	97.9%	90% - 110%	Yes
CVS#1	976	1000	97.6%	90% - 110%	Yes
LCS	692	706	98.0%	90% - 110%	Yes
LCSD	692	706	98.0%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Card
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 6, 2009

Analytical Batch: 02TDS09E

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981541-1	SC-700B-WDR-189	mg/L	SM 2540C	250	4110
981541-2	SC-100B-WDR-189	mg/L	SM 2540C	250	5360

QA/QC Summary

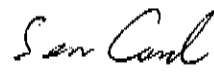
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981576-2	497	506	0.90%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	—	<25.0	Yes
LCS 1	503	500	101%	90% - 110%	Yes
LCS 2	497	500	99.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009
Collected: February 4, 2009
Received: February 4, 2009
Prep/ Analyzed: February 5, 2009
Analytical Batch: 02TUC09E

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981541-1	SC-700B-WDR-189	08:00	NTU	1.00	0.100	0.114
981541-2	SC-100B-WDR-189	08:30	NTU	1.00	0.100	0.144

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	981541-1	0.114	0.120	5.13%	≤ 20%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<0.100	—	<0.100	Yes
LCS	7.85	8.00	98.1%	90% - 110%	Yes
LCS	8.02	8.00	100%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

For Sam Carl
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Prep. Batch: 02CrH09C

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 5, 2009

Analytical Batch: 02CrH09C

Investigation:

Hexavalent Chromium by IC Using Method EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981541-1	SC-700B-WDR-189	08:00	08:39	µg/L	1.05	0.20	ND
981541-2	SC-100B-WDR-189	08:30	09:31	µg/L	52.5	10.5	1250

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981500-8	57.2	57.5	0.52%	< 20%	Yes

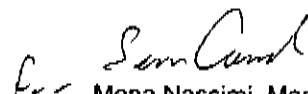
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981541-1	0.00	1.06	1.00	1.06	1.01	1.06	95.3%	90-110%	Yes
MS	981541-2	1250	52.5	25.0	1313	2500	2563	95.2%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCCS	4.99	5.00	99.8%	90% - 110%	Yes
MRCVS#1	10.1	10.0	101%	95% - 105%	Yes
MRCVS#2	10.0	10.0	100%	95% - 105%	Yes
MRCVS#3	9.82	10.0	98.2%	95% - 105%	Yes
LCS	4.99	5.00	99.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 10, 2009

Analytical Batch: 02NH3-E09B

Investigation:

Ammonia as N by Method SM 4500-NH3 D

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
981541-1	SC-700B-WDR-189	08:00	SM 4500-NH3 D	mg/L	1.00	0.500	ND
981541-2	SC-100B-WDR-189	08:30	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		981541-1		ND		ND		0.00%		≤ 20%		Yes	

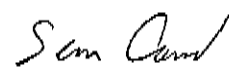
QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981060-2	0.00	1.00	6.00	6.00	6.00	6.00	100%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	6.11	6.00	102%	90% - 110%	Yes
MRCVS#1	5.93	6.00	98.8%	90% - 110%	Yes
LCS	10.4	10.0	104%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

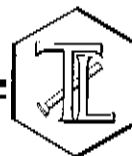
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 5, 2009

Analytical Batch: 02AN09D

Investigation:

Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981541-1	SC-700B-WDR-189	08:00	10:10	mg/L	5.00	0.500	2.10
981541-2	SC-100B-WDR-189	08:30	10:22	mg/L	5.00	0.500	2.53

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		981541-1		2.10		2.10		0.00%		≤ 20%		Yes	

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981541-1	2.10	5.00	4.00	20.0	22.6	22.1	103%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCCS	4.06	4.00	102%	90% - 110%	Yes
MRCVS#1	3.10	3.00	103%	90% - 110%	Yes
MRCVS#2	3.12	3.00	104%	90% - 110%	Yes
LCS	4.06	4.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 5, 2009

Analytical Batch: 02AN09D

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981541-1	SC-700B-WDR-189	08:00	17:33	mg/L	50.0	25.0	477
981541-2	SC-100B-WDR-189	08:30	17:44	mg/L	50.0	25.0	589

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981517	1.88	1.88	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981517	1.88	1.00	2.00	2.00	4.00	3.88	106%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCSS	20.2	20.0	101%	90% - 110%	Yes
MRCVS#1	15.1	15.0	101%	90% - 110%	Yes
MRCVS#2	15.1	15.0	101%	90% - 110%	Yes
MRCVS#3	15.1	15.0	101%	90% - 110%	Yes
MRCVS#4	15.1	15.0	101%	90% - 110%	Yes
LCS	20.2	20.0	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

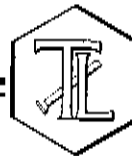
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 5, 2009

Analytical Batch: 02AN09D

Investigation: Nitrate as N by Ion Chromatography using EPA 300.0

Analytical Results Nitrate as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981541-1	SC-700B-WDR-189	08:00	10:10	mg/L	5.00	1.00	2.90
981541-2	SC-100B-WDR-189	08:30	10:22	mg/L	5.00	1.00	3.26

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		981541-1		2.90		2.89		0.35%		≤ 20%		Yes	


QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981541-1	2.90	5.00	4.00	20.0	23.1	22.9	101%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	3.94	4.00	98.5%	90% - 110%	Yes
MRCVS#1	2.97	3.00	99.0%	90% - 110%	Yes
MRCVS#2	2.98	3.00	99.3%	90% - 110%	Yes
MRCVS#3	3.02	3.00	101%	90% - 110%	Yes
LCS	3.95	4.00	98.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 981541

Date: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Prep/ Analyzed: February 5, 2009

Analytical Batch: 02NO209C

Investigation:

Nitrite as N by Method SM 4500-NO2-B

Analytical Results for Nitrite as N

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981541-1	SC-700B-WDR-189	08:00	13:16	mg/L	1.00	0.0050	0.0054
981541-2	SC-100B-WDR-189	08:30	13:17	mg/L	1.00	0.0050	ND

QA/QC Summary

<u>QC STD I.D.</u>		<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate		981541-2	ND	ND	0.00%	< 20%	Yes


<u>QC Std I.D.</u>	<u>Lab Number</u>	<u>Conc. of unspiked sample</u>	<u>Dilution Factor</u>	<u>Added Spike Conc.</u>	<u>MS Amount</u>	<u>Measured Conc. of spiked sample</u>	<u>Theoretical Conc. of spiked sample</u>	<u>MS% Recovery</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
MS	981541-2	0.00	1.00	0.0200	0.0200	0.0195	0.0200	97.5%	75-125%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<0.0050	—	<0.0050	Yes
MRCCS	0.0192	0.0200	96.0%	90% - 110%	Yes
MRCVS#1	0.0199	0.0200	99.5%	90% - 110%	Yes
LCS	0.0398	0.0400	99.5%	90% - 110%	Yes
LCSD	0.0399	0.0400	99.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

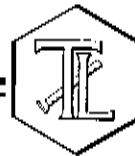
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Samples: Two (2) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Investigation: Total Metal Analyses as Requested

Laboratory No.: 981541

Reported: March 4, 2009

Collected: February 4, 2009

Received: February 4, 2009

Analyzed: See Below

Analytical Results

SAMPLE ID: SC-700B-WDR-189		Time Collected: 08:00		LAB ID: 981541-1				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	022509A	02/25/09	15:48
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	022809A	02/28/09	17:13
Arsenic	EPA 200.8	ND	5.00	µg/L	1.00	022509A	02/25/09	15:48
Barium	EPA 200.8	17.1	5.00	µg/L	10.0	022809A	02/28/09	17:13
Chromium	EPA 200.8	ND	5.00	µg/L	1.00	021809B	02/18/09	17:49
Copper	EPA 200.8	ND	5.00	µg/L	5.00	022509A	02/25/09	15:48
Lead	EPA 200.8	ND	5.00	µg/L	10.0	022809A	02/28/09	17:13
Manganese	EPA 200.7	46.7	1.00	µg/L	10.0	021109A	02/11/09	10:40
Molybdenum	EPA 200.8	13.8	5.00	µg/L	10.0	022509A	02/25/09	15:48
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	022509A	02/25/09	15:48
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	022509A	02/25/09	15:48
Boron	EPA 200.7	1070	1.00	µg/L	200	021109A	02/11/09	10:40
Iron	EPA 200.7	ND	1.00	µg/L	20.0	021109A	02/11/09	10:40

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Report Continued

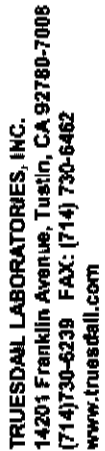
SAMPLE ID: SC-100B-WDR-189		Time Collected: 08:30		LAB ID: 981541-2				
Parameter	Method	Reported			RL	Batch	Date	Time
		Value	DF	Units			Analyzed	Analyzed
Aluminum	EPA 200.8	ND	5.00	µg/L	50.0	022509A	02/25/09	16:13
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	022809A	02/28/09	17:20
Arsenic	EPA 200.8	6.12	5.00	µg/L	1.00	022509A	02/25/09	16:13
Barium	EPA 200.8	31.4	5.00	µg/L	10.0	022809A	02/28/09	17:20
Chromium	EPA 200.8	1160	5.00	µg/L	1.00	021809B	02/18/09	18:14
Copper	EPA 200.8	ND	5.00	µg/L	5.00	022509A	02/25/09	16:13
Lead	EPA 200.8	ND	5.00	µg/L	10.0	022809A	02/28/09	17:20
Manganese	EPA 200.7	ND	1.00	µg/L	10.0	021109A	02/11/09	11:37
Molybdenum	EPA 200.8	25.4	5.00	µg/L	10.0	022509A	02/25/09	16:13
Nickel	EPA 200.8	ND	5.00	µg/L	10.0	022509A	02/25/09	16:13
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	022509A	02/25/09	16:13
Boron	EPA 200.7	1150	1.00	µg/L	200	021109A	02/11/09	11:37
Iron	EPA 200.7	ND	1.00	µg/L	20.0	021109A	02/11/09	11:37

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services



M3Plant-WDR-189

TURNAROUND TIME

10 Days

PAGE 1 OF 1

[illegible]

Sample = 0800 764410 - 0810

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED ☐ COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

The metals include: Cr, Al, Sb, As, Ba, B, Cu, Pb, Mn, Mo, Ni, Fe, Zn

070

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February 24, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-190 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 981757

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-190 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 11, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Canale
Mona Nassimi
Manager, Analytical Services

K.R.P. Iyer

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

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

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

Laboratory No.: 981757

Date: February 24, 2009

Collected: February 11, 2009

Received: February 11, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Laboratory No.: 981757

Sample: One (1) Groundwater Sample

Date: February 24, 2009

Project Name: PG&E Topock Project

Collected: February 11, 2009

Project No.: 379209.01.02

Received: February 11, 2009

P.O. No.: 379209.01.02

Prep/ Analyzed: February 19, 2009

Prep. Batch: 021909A

Analytical Batch: 021909A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981757	SC-700B-WDR-190	µg/L	EPA 200.8	13:45	5.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981616-2	1.76	1.61	8.90%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981616-2	1.76	5.00	50.0	250	232	252	92.1%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCCS	51.7	50.0	103%	90% - 110%	Yes
MRCVS#1	50.1	50.0	100%	90% - 110%	Yes
MRCVS#2	48.5	50.0	97.0%	90% - 110%	Yes
MRCVS#3	48.9	50.0	97.8%	90% - 110%	Yes
ICS	48.4	50.0	96.8%	80% - 120%	Yes
LCS	50.7	50.0	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

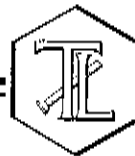
Sam Condon
for Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Laboratory No.: 981757

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Date: February 24, 2009
Collected: February 11, 2009
Received: February 11, 2009
Prep/ Analyzed: February 12, 2009
Analytical Batch: 02CrH09M

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
981757	SC-700B-WDR-190	08:00	10:42	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981720-22	730	724	0.83%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981757	0.00	1.06	1.00	1.06	1.11	1.06	105%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCSS	4.98	5.00	99.6%	90% - 110%	Yes
MRCVS#1	10.0	10.0	100%	95% - 105%	Yes
MRCVS#2	9.86	10.0	98.6%	95% - 105%	Yes
MRCVS#3	9.94	10.0	99.4%	95% - 105%	Yes
LCS	4.98	5.00	99.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

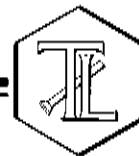
for 
Mona Nassimi, Manager
Analytical Services

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TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981757

Date: February 24, 2009

Collected: February 11, 2009

Received: February 11, 2009

Prep/ Analyzed: February 12, 2009

Analytical Batch: 02TUC09K

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981757	SC-700B-WDR-190	08:00	NTU	1.00	0.100	ND

QA/QC Summary

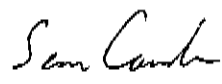
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981736-2	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.78	8.00	97.3%	90% - 110%	Yes
LCS	7.73	8.00	96.6%	90% - 110%	Yes
LCS	7.34	8.00	91.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981757

Date: February 24, 2009

Collected: February 11, 2009

Received: February 11, 2009

Prep/ Analyzed: February 12, 2009

Analytical Batch: 02EC09F

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981757	SC-700B-WDR-190	µmhos/cm	EPA 120.1	1.00	2.00	6590

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981757	6590	6600	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	693	706	98.2%	90% - 110%	Yes
CVS#1	976	1000	97.6%	90% - 110%	Yes
LCS	693	706	98.2%	90% - 110%	Yes
LCSD	693	706	98.2%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981757

Date: February 24, 2009

Collected: February 11, 2009

Received: February 11, 2009

Prep/ Analyzed: February 13, 2009

Analytical Batch: 02TDS09M

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981757	SC-700B-WDR-190	mg/L	SM 2540C	250	3860

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981759	328	336	1.20%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	496	500	99.2%	90% - 110%	Yes
LCS 2	500	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services



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CHAIN OF CUSTODY RECORD

[IM3] Plant-WDR-190

COC Number

10 Days

TURNAROUND TIME

DATE 2/11/09

PAGE 1 OF 1

981757

COMPANY	E2	PROJECT NAME	PG&E Topock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	379209-01.02	TEAM	1	SAMPLERS (SIGNATURE)		SAMPLE I.D.	SC-700B-WDR-190	DATE	2/11/09	TIME	0800	DESCRIPTION	Water	C6 (218.6) Lab Filtered	X	Total Metals (200.7) Total Chromium	X	Specific Conductance (120.1)	X	TDS (SM2540C)	X	Turbidity (SM2130)	X	NUMBER OF CONTAINERS	3	COMMENTS	Rec'd 02/11/09 981757
																		3	TOTAL NUMBER OF CONTAINERS		3	PK=7															

Time Picked 0800
Time Tested 0807
pH 7.0
EC 7.47
Temp 75.3
C6 .001
TOTAL .002

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)		Printed Name	JAIDE	Company/ Agency	Only	Date/ Time	2/11/09
Signature (Received)		Printed Name	Hipolito	Company/ Agency	Full	Date/ Time	2/11/09
Signature (Relinquished)		Printed Name	Hipolito	Company/ Agency	Full	Date/ Time	2/11/09
Signature (Received)		Printed Name	Shabazz	Company/ Agency	Full	Date/ Time	FEB 11 2009
Signature (Relinquished)		Printed Name	Shabazz	Company/ Agency	Full	Date/ Time	2/11/09
Signature (Received)		Printed Name	Shabazz	Company/ Agency	Full	Date/ Time	2/11/09

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March 2, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-191 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 981855

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-191 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 18, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Sean Cand...
Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

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

Laboratory No.: 981855

Date: March 2, 2009

Collected: February 18, 2009

Received: February 18, 2009

ANALYST LIST

METHOD	ANALYST
EPA 120.1	Specific Conductivity
SM 2540C	Total Dissolved Solids
SM 2130B	Turbidity
EPA 200.8	Total Chromium
EPA 218.6	Hexavalent Chromium

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02
Prep. Batch: 021909A

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

Laboratory No.: 981855

Date: March 2, 2009

Collected: February 18, 2009

Received: February 18, 2009

Prep/ Analyzed: February 19, 2009

Analytical Batch: 021909A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981855	SC-700B-WDR-191	µg/L	EPA 200.8	13:52	5.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981616-2	1.76	1.61	8.90%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981616-2	1.76	5.00	50.0	250	232	252	92.1%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	—	<1.00	Yes
MRCCS	51.7	50.0	103%	90% - 110%	Yes
MRCVS#1	50.1	50.0	100%	90% - 110%	Yes
MRCVS#2	48.5	50.0	97.0%	90% - 110%	Yes
MRCVS#3	48.9	50.0	97.8%	90% - 110%	Yes
ICS	48.4	50.0	96.8%	80% - 120%	Yes
LCS	50.7	50.0	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Laboratory No.: 981855

Date: March 2, 2009
Collected: February 18, 2009
Received: February 18, 2009
Prep/ Analyzed: February 19, 2009
Analytical Batch: 02CrH09Q

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981855	SC-700B-WDR-191	08:00	05:29	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981855	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981855	0.00	1.06	1.00	1.06	1.10	1.06	104%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCCS	5.00	5.00	100%	90% - 110%	Yes
MRCVS#1	10.2	10.0	102%	95% - 105%	Yes
MRCVS#2	9.91	10.0	99.1%	95% - 105%	Yes
LCS	5.01	5.00	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sara Cassin
For Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981855

Date: March 2, 2009

Collected: February 18, 2009

Received: February 18, 2009

Prep/ Analyzed: February 18, 2009

Analytical Batch: 02TUC09P

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981855	SC-700B-WDR-191	08:00	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981824-2	175	176	0.57%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.77	8.00	97.1%	90% - 110%	Yes
LCS	7.80	8.00	97.5%	90% - 110%	Yes
LCS	7.53	8.00	94.1%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

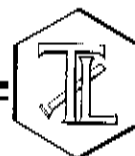
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Carls
Mona Nassimi, Manager
Analytical Services

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981855

Date: March 2, 2009

Collected: February 18, 2009

Received: February 18, 2009

Prep/ Analyzed: February 19, 2009

Analytical Batch: 02EC09J

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981855	SC-700B-WDR-191	µmhos/cm	EPA 120.1	1.00	2.00	6560

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981855	6560	6570	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	695	706	98.4%	90% - 110%	Yes
CVS#1	976	1000	97.6%	90% - 110%	Yes
CVS#2	977	1000	97.7%	90% - 110%	Yes
LCS	695	706	98.4%	90% - 110%	Yes
LCSD	695	706	98.4%	90% - 110%	Yes

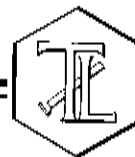
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

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

Laboratory No.: 981855

Date: March 2, 2009

Collected: February 18, 2009

Received: February 18, 2009

Prep/ Analyzed: February 20, 2009

Analytical Batch: 02TDS09N

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981855	SC-700B-WDR-191	mg/L	SM 2540C	250	4260

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981855	4260	4240	0.24%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	—	<25.0	Yes
LCS 1	504	500	101%	90% - 110%	Yes
LCS 2	499	500	99.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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981855

Rec'd 02/18/09
55 981855

CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-191]

TRUESDAL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
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COC Number

10 Days

TURNAROUND TIME

DATE 2/17/09

PAGE 1 OF 1

COMPANY	E2	PROJECT NAME	PG&E Topock	PHONE	(530) 229-3303	FAX	(530) 339-3303	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	379209.01.02	TEAM	1	SAMPLERS (SIGNATURE)	<i>[Signature]</i>				
SAMPLE I.D.	SC-700B-WDR-191	DATE	2/17/09	TIME	0800	DESCRIPTION	Water												
								C6 (2186) Lab Filtered	x	Total Metals (200.7) Total Chromium	x	Specific Conductance (120.1)	x	TDS (SM2540C)	x	Turbidity (SM2130)	x	COMMENTS	
NUMBER OF CONTAINERS																			
3																			
TOTAL NUMBER OF CONTAINERS																			
3																			

ALERT!!
Level III QC

700B Sampled T607EP
PH 7.0 0800 0807
EC 7.50 0804
Temp 77.0 0801
C6 .001 0834
TOTAL .003 0847

CHAIN OF CUSTODY SIGNATURE RECORD			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	JADK	OMI	2/18/09 0930
Signature (Received)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	Felipa TLF	TLF	2/18/09 1015
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>	W437cm	T. L.	2-18-09 1615
Signature (Received)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>			
Signature (Received)	Printed Name	Company/Agency	Date/Time
<i>[Signature]</i>			

SAMPLE CONDITIONS

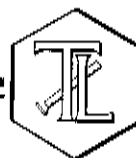
RECEIVED COOL ☐ WARM ☐

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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March 4, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-192 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 981968

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-192 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.


The samples were received and delivered with the chain of custody on February 25, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.


Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi
Manager, Analytical Services


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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

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Laboratory No.: 981968

Date: March 4, 2009

Collected: February 25, 2009

Received: February 25, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chaves
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02
Prep. Batch: 022709A

Laboratory No.: 981968

Date: March 4, 2009
Collected: February 25, 2009
Received: February 25, 2009
Prep/ Analyzed: February 27, 2009
Analytical Batch: 022709A

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
981968	SC-700B-WDR-192	µg/L	EPA 200.8	12:05	5.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981664-6	1.95	1.97	1.02%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981664-6	1.95	1.00	50.0	50.0	51.9	52.0	99.9%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCQS	48.3	50.0	96.6%	90% - 110%	Yes
MRCVS#1	48.8	50.0	97.6%	90% - 110%	Yes
MRCVS#2	46.3	50.0	92.6%	90% - 110%	Yes
MRCVS#3	45.6	50.0	91.2%	90% - 110%	Yes
MRCVS#4	45.4	50.0	90.8%	90% - 110%	Yes
ICS	49.3	50.0	98.6%	80% - 120%	Yes
LCS	47.5	50.0	95.0%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for *Shawn Duffy*
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Laboratory No.: 981968

Date: March 4, 2009
Collected: February 25, 2009
Received: February 25, 2009
Prep/ Analyzed: February 26, 2009
Analytical Batch: 02CrH09U

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981968	SC-700B-WDR-192	07:35	08:32	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981888-1	3	3	0.35%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	981968	0.00	1.06	1.00	1.06	1.06	1.06	100%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCSS	4.99	5.00	99.8%	90% - 110%	Yes
MRCVS#1	9.77	10.0	97.7%	95% - 105%	Yes
MRCVS#2	9.78	10.0	97.8%	95% - 105%	Yes
LCS	5.00	5.00	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
for Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981968

Date: March 4, 2009

Collected: February 25, 2009

Received: February 25, 2009

Prep/ Analyzed: February 26, 2009

Analytical Batch: 02TUC09T

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981968	SC-700B-WDR-192	07:35	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	981968	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.90	8.00	98.8%	90% - 110%	Yes
LCS	8.10	8.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981968

Date: March 4, 2009

Collected: February 25, 2009

Received: February 25, 2009

Prep/ Analyzed: February 26, 2009

Analytical Batch: 02EC09P

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity


<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
981968	SC-700B-WDR-192	µmhos/cm	EPA 120.1	1.00	2.00	6570

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	981968	6570	6580	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	—	<2.00	Yes
CCS	695	706	98.4%	90% - 110%	Yes
CVS#1	977	1000	97.7%	90% - 110%	Yes
LCS	695	706	98.4%	90% - 110%	Yes
LCSD	695	706	98.4%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 981968

Date: March 4, 2009

Collected: February 25, 2009

Received: February 25, 2009

Prep/ Analyzed: February 26, 2009

Analytical Batch: 02TDS09Q

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
981968	SC-700B-WDR-192	mg/L	SM 2540C	250	4410

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	981968	4410	4490	0.90%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	—	<25.0	Yes
LCS 1	500	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

f-- Sam Gaud
f-- Mona Nassimi, Manager
Analytical Services

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COC Number

TURNAROUND TIME 5 Days
DATE 2/25/09 PAGE 1

NM3Plant-WDR-192]

981968

[illegible]

	Collected	TESTED
pH - 7.4	07:30	0735
EC 7.51	07:30	0733
Temp 80.4	07:30	0731
Cr6 .001	07:50	0751 0740 h
TOTAL .002	07:30	0807 07 h

RUSH!

ALERT!!

Level III .00

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL <input type="checkbox"/>	WARM <input type="checkbox"/>	°F _____
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:			
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				

031

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March 30, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-193PROJECT, GROUNDWATER
MONITORING, TLI NO.: 982073

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-193 project groundwater monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on March 4, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Nassimi
Mona Nassimi
Manager, Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

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Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

ANALYST LIST

Method	Parameter	Analyst
EPA 120.1	Specific Conductivity	Tina Acquiati
SM 2540C	Total Dissolved Solids	Tina Acquiati
SM 2130B	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
SM 4500-NH3 B	Ammonia	Iordan Stavrev
SM 4500-NO2 B	Nitrite as N	Tina Acquiati
EPA 200.7	Metals by ICP	Daniel Kang
EPA 200.8 / EPA 245.1	Metals by ICP/MS	Romuel Chaves / Mark Kotani
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Samples: Three (3) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Investigation: Total Metal Analyses as Requested

Laboratory No.: 982073

Reported: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Analyzed: See Below

Analytical Results

SAMPLE ID: SC-700B-WDR-193		Time Collected: 11:58		LAB ID: 982073-1				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Aluminum	EPA 200.8	ND	10.0	µg/L	50.0	032409A	03/24/09	14:01
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	031509A	03/15/09	16:19
Arsenic	EPA 200.8	ND	10.0	µg/L	2.00	031709A	03/17/09	14:26
Barium	EPA 200.8	57.1	10.0	µg/L	10.0	031709A	03/17/09	14:26
Chromium	EPA 200.8	ND	10.0	µg/L	2.00	031709A	03/17/09	14:26
Copper	EPA 200.8	27.0	10.0	µg/L	5.00	031709A	03/17/09	14:26
Lead	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:26
Manganese	EPA 200.7	ND	1.00	µg/L	10.0	031609A	03/16/09	17:14
Molybdenum	EPA 200.8	14.0	5.00	µg/L	10.0	031509A	03/15/09	16:19
Nickel	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:26
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	031509A	03/15/09	16:19
Boron	EPA 200.7	1040	1.00	µg/L	200	031609A	03/16/09	17:14
Iron	EPA 200.7	ND	1.00	µg/L	20.0	031609A	03/16/09	17:14

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Report Continued

SAMPLE ID: SC-100B-WDR-193		Time Collected: 11:52		LAB ID: 982073-2				
		Reported				Date		Time
Parameter	Method	Value	DF	Units	RL	Batch	Analyzed	Analyzed
Aluminum	EPA 200.8	ND	10.0	µg/L	50.0	032409A	03/24/09	14:07
Antimony	EPA 200.8	ND	5.00	µg/L	10.0	031509A	03/15/09	17:24
Arsenic	EPA 200.8	2.27	10.0	µg/L	2.00	031709A	03/17/09	14:33
Barium	EPA 200.8	28.3	10.0	µg/L	10.0	031709A	03/17/09	14:33
Chromium	EPA 200.8	1250	10.0	µg/L	2.00	031709A	03/17/09	14:33
Copper	EPA 200.8	ND	10.0	µg/L	5.00	031709A	03/17/09	14:33
Lead	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:33
Manganese	EPA 200.7	ND	5.00	µg/L	10.0	031609A	03/16/09	17:30
Molybdenum	EPA 200.8	26.6	5.00	µg/L	10.0	031509A	03/15/09	17:24
Nickel	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:33
Zinc	EPA 200.8	ND	5.00	µg/L	10.0	031509A	03/15/09	17:24
Boron	EPA 200.7	1110	1.00	µg/L	200	031609A	03/16/09	17:30
Iron	EPA 200.7	ND	1.00	µg/L	20.0	031609A	03/16/09	17:30

SAMPLE ID: SC-701-WDR-193		Time Collected: 12:03		LAB ID: 982073-3				
Parameter	Method	Reported			Batch	Date	Time	
		Value	DF	Units		Analyzed	Analyzed	
Antimony	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:39
Arsenic	EPA 200.8	ND	10.0	µg/L	2.00	031709A	03/17/09	14:39
Barium	EPA 200.8	152	10.0	µg/L	10.0	031709A	03/17/09	14:39
Beryllium	EPA 200.8	ND	50.0	µg/L	10.0	032409A	03/24/09	16:30
Cadmium	EPA 200.8	ND	10.0	µg/L	3.00	031709A	03/17/09	14:39
Chromium	EPA 200.8	4.55	10.0	µg/L	2.00	031709A	03/17/09	14:39
Cobalt	EPA 200.8	ND	50.0	µg/L	10.0	032409A	03/24/09	16:30
Copper	EPA 200.8	171	10.0	µg/L	5.00	031709A	03/17/09	14:39
Lead	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:39
Mercury	EPA 245.1	ND	1.00	µg/L	0.20	03Hg09B	03/07/09	N/A
Molybdenum	EPA 200.8	74.3	10.0	µg/L	10.0	031709A	03/17/09	14:39
Nickel	EPA 200.8	29.6	10.0	µg/L	10.0	031709A	03/17/09	14:39
Selenium	EPA 200.8	28.1	10.0	µg/L	10.0	031709A	03/17/09	14:39
Silver	EPA 200.8	ND	10.0	µg/L	10.0	031709A	03/17/09	14:39
Thallium	EPA 200.8	ND	10.0	µg/L	2.00	031709A	03/17/09	14:39
Vanadium	EPA 200.8	ND	50.0	µg/L	10.0	032409A	09/23/88	16:30
Zinc	EPA 200.8	124	10.0	µg/L	10.0	031709A	03/17/09	14:39

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

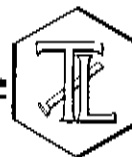
for *Sam Conde*
Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

REPORT

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

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 6, 2009

Analytical Batch: 03TDS09D

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
982073-1	SC-700B-WDR-193	mg/L	SM 2540C	250	4020
982073-2	SC-100B-WDR-193	mg/L	SM 2540C	250	4860
982073-3	SC-701-WDR-193	mg/L	SM 2540C	625	46700

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	982073-2	4860	4910	0.51%	≤ 5%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	501	500	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Carr
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

Client: E2 Consulting Engineers, Inc.
155 Grand Ave. Suite 1000
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REPORT

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

Attention: Shawn Duffy

Laboratory No.: 982073

Sample: Three (3) Groundwaters
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Date: March 30, 2009
Collected: March 4, 2009
Received: March 4, 2009
Prep/ Analyzed: March 5, 2009
Analytical Batch: 03TUC09E

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982073-1	SC-700B-WDR-193	11:58	NTU	1.00	0.100	ND
982073-2	SC-100B-WDR-193	11:52	NTU	1.00	0.100	ND

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	982073-2	ND	ND	0.00%	≤ 20%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
Blank	ND	<0.100	—	<0.100	Yes
LCS	7.76	8.00	97.0%	90% - 110%	Yes
LCS	7.80	8.00	97.5%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Cook
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Prep. Batch: 03CrH09B

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 6, 2009

Analytical Batch: 03CrH09B

Investigation:

Hexavalent Chromium by IC Using Method EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982073-1	SC-700B-WDR-193	11:58	08:02	µg/L	5.25	1.05	ND
982073-2	SC-100B-WDR-193	11:52	07:42	µg/L	105	21.0	1220
982073-3	SC-701-WDR-193	12:03	11:01	µg/L	26.2	5.24	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982073-2	1220	1210	0.82%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982073-1	0.00	5.25	1.00	5.25	5.34	5.25	102%	90-110%	Yes
MS	982073-2	1220	105	15.0	1575	2890	2795	106%	90-110%	Yes
MS	982073-3	0.00	26.2	1.00	26.2	26.7	26.2	102%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCVS	4.99	5.00	99.8%	90% - 110%	Yes
MRCVS#1	10.0	10.0	100%	95% - 105%	Yes
MRCVS#2	10.0	10.0	100%	95% - 105%	Yes
MRCVS#3	9.97	10.0	99.7%	95% - 105%	Yes
MRCVS#4	9.78	10.0	97.8%	95% - 105%	Yes
MRCVS#5	9.74	10.0	97.4%	95% - 105%	Yes
LCS	4.99	5.00	99.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 10, 2009

Analytical Batch: 03NH3-E09C

Investigation:

Ammonia as N by Method SM 4500-NH3 D

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
982073-1	SC-700B-WDR-193	11:58	SM 4500-NH3 D	mg/L	1.00	0.500	ND
982073-2	SC-100B-WDR-193	11:52	SM 4500-NH3 D	mg/L	1.00	0.500	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		982073-1		ND		ND		0.00%		≤ 20%		Yes	

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982073-1	0.00	1.00	6.00	6.00	5.95	6.00	99.2%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	6.13	6.00	102%	90% - 110%	Yes
MRCVS#1	5.97	6.00	99.5%	90% - 110%	Yes
LCS	10.2	10.0	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for *Sen Carl*
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 5, 2009

Analytical Batch: 03AN09D

Investigation: Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982073-1	SC-700B-WDR-193	11:58	10:29	mg/L	5.00	0.500	1.98
982073-2	SC-100B-WDR-193	11:52	10:41	mg/L	5.00	0.500	2.70
982073-3	SC-701-WDR-193	12:03	10:52	mg/L	5.00	0.500	28.4

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference		Acceptance limits		QC Within Control	
Duplicate		982073-1		1.98		1.98		0.00%		≤ 20%		Yes	

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982073-1	1.98	5.00	4.00	20.0	23.0	22.0	105%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.16	4.00	104%	90% - 110%	Yes
MRCVS#1	3.11	3.00	104%	90% - 110%	Yes
MRCVS#2	3.10	3.00	103%	90% - 110%	Yes
LCS	4.15	4.00	104%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 5, 2009

Analytical Batch: 03AN09D

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982073-1	SC-700B-WDR-193	11:58	16:57	mg/L	100	50.0	483

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982073-1	483	481	0.41%	≤ 20%	Yes

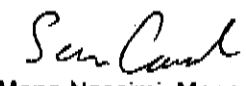
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982073-1	483	100	10.0	1000	1520	1483	104%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	—	<0.500	Yes
MRCCS	20.4	20.0	102%	90% - 110%	Yes
MRCVS#1	15.0	15.0	100%	90% - 110%	Yes
MRCVS#2	15.0	15.0	100%	90% - 110%	Yes
MRCVS#3	15.0	15.0	100%	90% - 110%	Yes
MRCVS#4	15.1	15.0	101%	90% - 110%	Yes
LCS	20.3	20.0	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

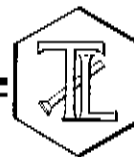
DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 9, 2009

Analytical Batch: 03AN09F

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982073-2	SC-100B-WDR-193	11:52	15:16	mg/L	25.0	12.5	602

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982124-3	40.1	40.2	0.25%	≤ 20%	Yes

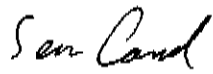
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982124-3	40.1	5.00	10.0	50.0	92.7	90.1	105%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	20.4	20.0	102%	90% - 110%	Yes
MRCVS#1	15.2	15.0	101%	90% - 110%	Yes
MRCVS#2	15.4	15.0	103%	90% - 110%	Yes
MRCVS#3	15.3	15.0	102%	90% - 110%	Yes
LCS	20.6	20.0	103%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 5, 2009

Analytical Batch: 03AN09D

Investigation: Nitrate as N by Ion Chromatography using EPA 300.0

Analytical Results Nitrate as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982073-1	SC-700B-WDR-193	11:58	10:29	mg/L	5.00	1.00	2.69
982073-2	SC-100B-WDR-193	11:52	10:41	mg/L	5.00	1.00	3.29

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982065-7	8.62	8.64	0.23%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982065-7	8.62	5.00	4.00	20.0	28.9	28.6	101%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	3.99	4.00	99.8%	90% - 110%	Yes
MRCVS#1	2.97	3.00	99.0%	90% - 110%	Yes
MRCVS#2	2.96	3.00	98.7%	90% - 110%	Yes
MRCVS#3	2.97	3.00	99.0%	90% - 110%	Yes
MRCVS#4	2.98	3.00	99.3%	90% - 110%	Yes
LCS	3.96	4.00	99.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for *Sen Carl*
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwaters

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982073

Date: March 30, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 5, 2009

Analytical Batch: 03NO209D

Investigation:

Nitrite as N by Method SM 4500-NO2-B

Analytical Results for Nitrite as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982073-1	SC-700B-WDR-193	11:58	11:02	mg/L	1.00	0.0050	ND
982073-2	SC-100B-WDR-193	11:52	11:03	mg/L	1.00	0.0050	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982073-1	ND	ND	0.00%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982073-1	0.00	1.00	0.0200	0.0200	0.0189	0.0200	94.5%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.0050	---	<0.0050	Yes
MRCCS	0.0199	0.0200	99.5%	90% - 110%	Yes
MRCVS#1	0.0201	0.0200	101%	90% - 110%	Yes
LCS	0.0408	0.0400	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Sam Card
for Mona Nassimi, Manager
Analytical Services

Rec'd 03/04/09
982073

TRUESDAIL LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7008
(714) 730-6239 FAX: (714) 730-6462
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CHAIN OF CUSTODY RECORD

COC Number IM3Plant-WDR-193

URNAROUND TIME 10 Days

DATE 03/04/09 PAGE 1 OF 1

COMPANY CH2M HILL IE2
PROJECT NAME PG&E Topock IM3
PHONE 530-229-3303 FAX 530-339-3303
ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612
P.O. NUMBER 379209.01.03.01
SAMPLERS (SIGNATURE) *C. Knight*

SAMPLE I.D.	DATE	TIME	DESCRIPTION	CRVI (218.6) Lab Filtered	EC (120.1)	TDS (2540 c)	Turb (2130)	Total Metals (200.7) See List Below	Ammonia (4500-NH3)	Anions (300.0) F	Anions (300.0) F, NO3, NO2, SO4	TOC (6310 C)	Total Metals (200.7) CR	NUMBER OF CONTAINERS	COMMENTS
SC-700B-WDR-193	03/04/09	11:58		X	X	X	X	X	X	X				4	PH = 2.7
SC-100B-WDR-193	03/04/09	11:52		X	X	X	X	X	X	X				4	PH = 2.7
SC-701-WDR-193	03/04/09	12:03		X	X	X			X					4	PH = 2.7
															ALERT!!
															Level III QC
SC-700	80.6 - 12:13	7:34 - 12:13	7:3 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	1001 - 12:14	12	TOTAL NUMBER OF CONTAINERS
SC-100	77.1 - 12:08	8:75 - 12:08	7:3 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11	1:41 - 12:11		

50-701
PH - 7.7
@ 12:19

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<i>C. Knight</i>	Printed Name	C. Knight	Company/ Agency	OMI	Date/ Time	3-4-09 1305
Signature (Received)	<i>Falgarone</i>	Printed Name	Falgarone	Company/ Agency	TLK	Date/ Time	3/4/09 15:48
Signature (Relinquished)	<i>Falgarone</i>	Printed Name	Falgarone	Company/ Agency	TLK	Date/ Time	3/4/09 20:50
Signature (Received)	<i>L. Huebner</i>	Printed Name	L. Huebner	Company/ Agency	TLI	Date/ Time	3/4/09 20:50
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	20:50
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	20:50

SAMPLE CONDITIONS

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

SPECIAL REQUIREMENTS:

The metals include: Cr, Al, Sb, As, Ba, B, Cu, Pb, Mn, Mo, Ni, Fe, Zn

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www.truesdail.com

April 2, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-193 PROJECT, SLUDGE
MONITORING,

TLI No.: 982074

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-193 project sludge monitoring. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

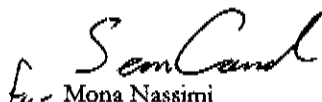
The samples were received and delivered with the chain of custody on March 4, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

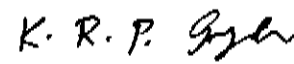
All final results and associated dilution factors are reported on a dry weight basis.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.


for - Mona Nassimi
Manager, Analytical Services


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

TRUESDAIL LABORATORIES, INC.

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

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 982074

Date: April 2, 2009

Collected: March 4, 2009

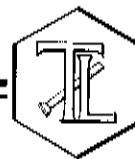
Received: March 4, 2009

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 300.0	Fluoride	Giawad Ghenniwa
SM 2540 B	% Moisture	Gautam Savani
SW 6010B	Metals by ICP	Hao Ton
SW 6020	Metals by ICP/MS	Romuel Chaves
SW 7471A	Mercury	Romuel Chaves
SW 7199	Hexavalent Chromium	David Blackburn

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Prep. Batch: 03CrH09A

Laboratory No.: 982074

Date: April 2, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 27, 2009

Analytical Batch: 03CrH09A

Investigation:

Hexavalent Chromium by IC Using Method SW 7199

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982074	SC-Sludge-WDR-193	10:00	12:02	mg/kg	1.00	1.67	12.0

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982074	12.0	12.1	0.81%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982074	12.0	10.0	33.3	333	322	345	93.0%	75-125%	Yes
IMS	982074	12.0	200	18.9	3784	3690	3796	97.2%	75-125%	Yes
PDMS	982074	12.0	25.0	26.7	668	760	680	112%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.400	—	<0.400	Yes
MRCCS	2.04	2.00	102%	90% - 110%	Yes
MRCVS#1	2.02	2.00	101%	90% - 110%	Yes
LCS	1.99	2.00	99.7%	80% - 120%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

REPORT

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 982074

Date: April 2, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 9, 2009

Analytical Batch: 03SOLID09A

Investigation:

Total Solids by SM 2540 B

Analytical Results % Moisture

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>Results</u>
982074	SC-Sludge-WDR-193	10:00	%	76.0

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982074	76.0	75.8	0.26%	< 20%	Yes

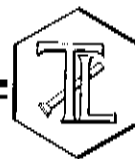
ND: Below the reporting limit (Not Detected),
DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Candel
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.03.01

P.O. No.: 379209.01.03.01

Laboratory No.: 982074

Date: April 2, 2009

Collected: March 4, 2009

Received: March 4, 2009

Prep/ Analyzed: March 9, 2009

Analytical Batch: 03AN09F

Investigation: Fluoride by Ion Chromatography using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
982074	SC-Sludge-WDR-193	10:00	11:19	mg/kg	1.00	16.7	67.9

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982121	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982121	0.00	1.00	2.00	2.00	2.12	2.00	106%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.500	---	<0.500	Yes
MRCCS	4.13	4.00	103%	90% - 110%	Yes
MRCVS#1	3.17	3.00	106%	90% - 110%	Yes
MRCVS#2	3.17	3.00	106%	90% - 110%	Yes
LCS	4.16	4.00	104%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
For Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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REPORT

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

Attention: Shawn Duffy

Samples: One (1) Soil Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.03.01
P.O. No.: 379209.01.03.01

Investigation: Total Metal Analyses as Requested

Laboratory No.: 982074

Reported: April 2, 2009

Collected: March 4, 2009

Received: March 4, 2009

Analyzed: See Below

Analytical Results

SAMPLE ID: SC-Sludge-WDR-193		Time Collected: 10:00		LAB ID: 982074				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Antimony	SW 6020	ND	10.0	mg/kg	2.06	032409C	03/24/09	14:21
Arsenic	SW 6020	38.9	10.0	mg/kg	2.06	032409C	03/24/09	14:21
Barium	SW 6010B	114	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Beryllium	SW 6010B	211	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Cadmium	SW 6010B	38.1	1.00	mg/kg	4.12	032409A	03/24/09	18:06
Chromium	SW 6010B	15100	10.0	mg/kg	20.6	040109A	04/01/09	14:11
Cobalt	SW 6010B	7.96	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Copper	SW 6010B	57.6	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Lead	SW 6010B	ND	1.00	mg/kg	4.12	032409A	03/24/09	18:06
Mercury	SW 7471A	0.507	1.00	mg/kg	0.160	03HG09D	03/18/09	N/A
Molybdenum	SW 6020	23.4	50.0	mg/kg	10.3	040209A	04/02/09	14:40
Nickel	SW 6010B	ND	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Selenium	SW 6020	ND	50.0	mg/kg	10.3	040209A	04/02/09	14:40
Silver	SW 6010B	ND	1.00	mg/kg	4.12	032409A	03/24/09	18:06
Thallium	SW 6010B	10.7	1.00	mg/kg	4.12	032409A	03/24/09	18:06
Vanadium	SW 6010B	311	1.00	mg/kg	2.06	032409A	03/24/09	18:06
Zinc	SW 6010B	128	1.00	mg/kg	10.3	032409A	03/24/09	18:06

NOTES:

Sample results and reporting limits reported on a dry weight basis.

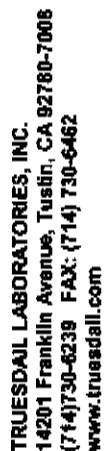
ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.



IM3plant-WDR-1931

COC Number

TURNAROUND TIME

DATE 03/04/09 PAGE 1

[illegible]

CHAIN OF CUSTODY SIGNATURE RECORD

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL <input type="checkbox"/>	WARM <input type="checkbox"/>	°F
<i>[Signature]</i>	Chung	C. Knight	3-4-09 14:30				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
<i>[Signature]</i>	Felipe R	IAF	3/4/09 13:00				
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:			
<i>[Signature]</i>	Felipe R	IAF	3/4/09 30:00				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
<i>[Signature]</i>	L. Shabunina	IAF	3/4/09	ALERT!! Level III QC			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time				
<i>[Signature]</i>			20:50				
Signature (Received)	Printed Name	Company/ Agency	Date/ Time				
<i>[Signature]</i>							

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www.truesdall.com

March 23, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-194 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 982269

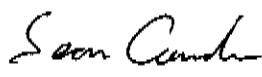
Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-194 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

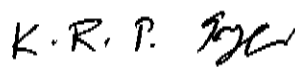
The samples were received and delivered with the chain of custody on March 11, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.


for Mona Nassimi
Manager, Analytical Services


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

TRUESDAIL LABORATORIES, INC.

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www.truesdail.com

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

Laboratory No.: 982269

Date: March 23, 2009

Collected: March 11, 2009

Received: March 11, 2009

ANALYST LIST

TEST ID	TEST	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Daniel Kang
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Prep. Batch: 031309A

Laboratory No.: 982269

Date: March 23, 2009

Collected: March 11, 2009

Received: March 11, 2009

Prep/ Analyzed: March 13, 2009

Analytical Batch: 031309A

Investigation:

Total Chromium by Inductively Coupled Argon Plasma
Using Method EPA 200.7

Analytical Results Total Chromium

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
982269	SC-700B-WDR-194	µg/L	EPA 200.7	13:51	1.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982265-3	21.3	21.7	1.86%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982265-3	21.3	1.00	50.0	50.0	63.0	71.3	83.4%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCCS	50.6	50.0	101%	95% - 105%	Yes
MRCVS#1	49.2	50.0	98.4%	90% - 110%	Yes
MRCVS#2	47.1	50.0	94.2%	90% - 110%	Yes
ICS	46.1	50.0	92.2%	80% - 120%	Yes
LCS	54.1	50.0	108%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Monna Nassimi
f. Monna Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Laboratory No.: 982269

Date: March 23, 2009
Collected: March 11, 2009
Received: March 11, 2009
Prep/ Analyzed: March 12, 2009
Analytical Batch: 03CrH09G

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982269	SC-700B-WDR-194	08:15	12:45	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982267-3	17.8	17.8	0.00%	< 20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982269	0.00	1.06	1.00	1.06	1.02	1.06	96.2%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCES	4.80	5.00	96.0%	90% - 110%	Yes
MRCVS#1	9.68	10.0	96.8%	95% - 105%	Yes
MRCVS#2	9.61	10.0	96.1%	95% - 105%	Yes
MRCVS#3	9.75	10.0	97.5%	95% - 105%	Yes
MRCVS#4	9.78	10.0	97.8%	95% - 105%	Yes
LCS	4.80	5.00	96.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

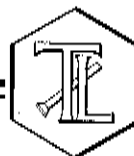
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982269

Date: March 23, 2009

Collected: March 11, 2009

Received: March 11, 2009

Prep/ Analyzed: March 12, 2009

Analytical Batch: 03TUC09K

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982269	SC-700B-WDR-194	08:15	NTU	1.00	0.100	ND

QA/QC Summary

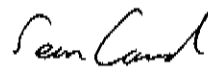
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982190-6	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	8.10	8.00	101%	90% - 110%	Yes
LCS	8.12	8.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Laboratory No.: 982269

Sample: One (1) Groundwater Sample

Date: March 23, 2009

Project Name: PG&E Topock Project

Collected: March 11, 2009

Project No.: 379209.01.02

Received: March 11, 2009

P.O. No.: 379209.01.02

Prep/ Analyzed: March 12, 2009

Analytical Batch: 03EC09E

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity


<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982269	SC-700B-WDR-194	µmhos/cm	EPA 120.1	1.00	2.00	6680

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	982269	6680	6690	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	694	706	98.3%	90% - 110%	Yes
CVS#1	982	1000	98.2%	90% - 110%	Yes
CVS#2	982	1000	98.2%	90% - 110%	Yes
LCS	694	706	98.3%	90% - 110%	Yes
LCSD	694	706	98.3%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982269

Date: March 23, 2009

Collected: March 11, 2009

Received: March 11, 2009

Prep/ Analyzed: March 12, 2009

Analytical Batch: 03TDS09H

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
982269	SC-700B-WDR-194	mg/L	SM 2540C	250	4190

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	982269	4190	4140	0.60%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	498	500	99.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Land
Mona Nassimi, Manager
Analytical Services

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011

982269



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www.truesdall.com

CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-194]

COC Number

10 Days

TURNAROUND TIME

DATE 03/11/09 PAGE 1 OF 1

COMPANY E2	PROJECT NAME PG&E Topock	PHONE (530) 229-3303	FAX (530) 339-3303
ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612		P.O. NUMBER 379209.01.02	
SAMPLERS (SIGNATURE)		TEAM 1	
SAMPLE I.D.	DATE	TIME	DESCRIPTION
SC-700B-WDR-194	03/11/09		Water
<div style="display: flex; justify-content: space-between;"> <div> <p>Cr6 (218.6) Lab Filtered</p> <p>Total Metals (200.7) Total Chromium</p> <p>Specific Conductance (120.1)</p> <p>TDS (SM2540C)</p> <p>Turbidity (SM2130)</p> </div> <div> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> </div> </div>			
NUMBER OF CONTAINERS			COMMENTS
3			Pf 27
5			TOTAL NUMBER OF CONTAINERS

ALERT!
Level III QC

SC-700B Sample RESULT TIME
PH 7.0 0815 0820
EC 7.35 0819 0817
Temp 79.9 0833
Cr6 .001 0841
TOTAL .002

CHAIN OF CUSTODY SIGNATURE RECORD			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	AIDE	OMT	3-11-09 20:00
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Rafael	T.L.T	3-11-09 15:30
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Rafael	T.L.T	3-11-09 23:00
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Barbara	T.L.T	3-11-09 23:00
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>			
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>			

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

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March 30, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-194 PROJECT, GROUNDWATER
MONITORING, TLI NO.: 982373

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-195 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on March 17, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Sean Connolly
Mona Nassimi
Manager, Analytical Services

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

TRUESDAIL LABORATORIES, Inc.

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

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(714) 730-6239 • FAX (714) 730-6462
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Laboratory No.: 982373

Date: March 30, 2009

Collected: March 17, 2009

Received: March 17, 2009

ANALYST LIST

METHOD		ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiati
SM 2540C	Total Dissolved Solids	Tina Acquiati
SM 2130B	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Daniel Kang
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02
Prep. Batch: 031909B

Laboratory No.: 982373

Date: March 30, 2009
Collected: March 17, 2009
Received: March 17, 2009
Prep/ Analyzed: March 19, 2009
Analytical Batch: 031909B

Investigation:

**Total Chromium by Inductively Coupled Argon Plasma
Using Method EPA 200.7**

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982373	SC-700B-WDR-195	µg/L	EPA 200.7	17:19	1.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982373	ND	ND	0.00%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982373	0.0	1.00	50.0	50.0	41.3	50.0	82.6%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	--	<1.00	Yes
MRCCS	51.3	50.0	103%	95% - 105%	Yes
MRCVS#1	50.4	50.0	101%	90% - 110%	Yes
ICS	53.1	50.0	106%	80% - 120%	Yes
LCS	48.3	50.0	96.6%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

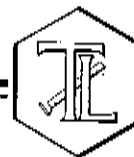
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Laboratory No.: 982373

Date: March 30, 2009
Collected: March 17, 2009
Received: March 17, 2009
Prep/ Analyzed: March 18, 2009
Analytical Batch: 03CrH09K

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982373	SC-700B-WDR-195	08:25	08:25	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982318-1	24.5	24.4	0.41%	< 20%	Yes


QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982373	0.00	1.06	1.00	1.06	1.05	1.06	99.1%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	—	<0.200	Yes
MRCCS	4.83	5.00	96.6%	90% - 110%	Yes
MRCVS#1	10.0	10.0	100%	95% - 105%	Yes
MRCVS#2	9.68	10.0	96.8%	95% - 105%	Yes
MRCVS#3	10.1	10.0	101%	95% - 105%	Yes
MRCVS#4	9.77	10.0	97.7%	95% - 105%	Yes
MRCVS#5	9.85	10.0	98.5%	95% - 105%	Yes
LCS	4.84	5.00	96.8%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

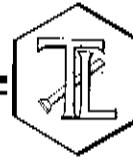
for 
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982373

Date: March 30, 2009

Collected: March 17, 2009

Received: March 17, 2009

Prep/ Analyzed: March 18, 2009

Analytical Batch: 03TUC09N

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982373	SC-700B-WDR-195	08:25	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982367-17	0.143	0.144	0.70%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	—	<0.100	Yes
LCS	8.10	8.00	101%	90% - 110%	Yes
LCS	7.79	8.00	97.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982373

Date: March 30, 2009

Collected: March 17, 2009

Received: March 17, 2009

Prep/ Analyzed: March 18, 2009

Analytical Batch: 03EC09G

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982373	SC-700B-WDR-195	µmhos/cm	EPA 120.1	1.00	2.00	6670

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982373	6670	6680	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	692	706	98.0%	90% - 110%	Yes
CVS#1	976	1000	97.6%	90% - 110%	Yes
LCS	692	706	98.0%	90% - 110%	Yes
LCSD	692	706	98.0%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Conrad
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982373

Date: March 30, 2009

Collected: March 17, 2009

Received: March 17, 2009

Prep/ Analyzed: March 18, 2009

Analytical Batch: 03TDS09J

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
982373	SC-700B-WDR-195	mg/L	SM 2540C	250	3960

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance Limits	QC Within Control
Duplicate	982373	3960	3890	0.89%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LQS 1	497	500	99.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Connel
Mona Nassimi, Manager
Analytical Services

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April 2, 2009

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-196 PROJECT, GROUNDWATER
MONITORING, TLI No.: 982488

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-196 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on March 25, 2009, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to the large number of samples in-house, the sample for Total Chromium analysis was analyzed by method EPA 200.8, rather than EPA 200.7 as requested on the chain of custody.

No other violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

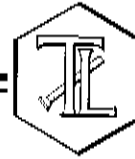
for Sean Condon
Mona Nassimi
Manager, Analytical Services

K. R. P. Iyer

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

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

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

Laboratory No.: 982488

Date: April 2, 2009

Collected: March 25, 2009

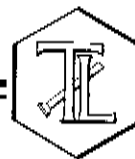
Received: March 25, 2009

ANALYST LIST

METHOD	TEST	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
SM 2540C	Total Dissolved Solids	Tina Acquiat
SM 2130B	Turbidity	Gautam Savani
EPA 200.8	Total Chromium	Romuel Chavez
EPA 218.6	Hexavalent Chromium	Michael Nonezyan

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02
Prep. Batch: 040109B

Laboratory No.: 982488

Date: April 2, 2009
Collected: March 25, 2009
Received: March 25, 2009
Prep/ Analyzed: April 1, 2009
Analytical Batch: 040109B

Investigation: Total Chromium by Inductively Coupled Argon Plasma Mass Spectrometer
using EPA 200.8

Analytical Results Total Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982488	SC-700B-WDR-196	µg/L	EPA 200.8	20:32	5.00	1.00	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	982268-10	126	124	1.60%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982268-10	126	5.00	50.0	250	388	376	105%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<1.00	---	<1.00	Yes
MRCCS	51.6	50.0	103%	90% - 110%	Yes
MRCVS#1	51.6	50.0	103%	90% - 110%	Yes
MRCVS#2	51.5	50.0	103%	90% - 110%	Yes
ICS	50.6	50.0	101%	80% - 120%	Yes
LCS	48.6	50.0	97.2%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

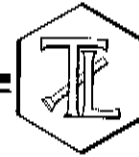
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Sam Card
Mona Nassimi, Manager
Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Laboratory No.: 982488

Date: April 2, 2009

Collected: March 25, 2009

Received: March 25, 2009

Prep/ Analyzed: March 31, 2009

Analytical Batch: 03CrH09N

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982488	SC-700B-WDR-196	08:00	08:00	µg/L	1.05	0.20	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982530-3	4.16	4.17	0.24%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	982488	0.00	1.06	1.00	1.06	1.14	1.06	108%	90 - 110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.200	---	<0.200	Yes
MRCCS	5.08	5.00	102%	90% - 110%	Yes
MRCVS#1	9.96	10.0	99.6%	95% - 105%	Yes
MRCVS#2	9.75	10.0	97.5%	95% - 105%	Yes
MRCVS#3	9.62	10.0	96.2%	95% - 105%	Yes
LCS	5.07	5.00	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982488

Date: April 2, 2009

Collected: March 25, 2009

Received: March 25, 2009

Prep/ Analyzed: March 26, 2009

Analytical Batch: 03TUC09R

Investigation:

Turbidity by Method SM 2130B

Analytical Results Turbidity

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982488	SC-700B-WDR-196	08:00	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982488	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<0.100	---	<0.100	Yes
LCS	7.93	8.00	99.1%	90% - 110%	Yes
LCS	7.80	8.00	97.5%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

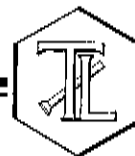
DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

REPORT

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

Attention: Shawn Duffy

Laboratory No.: 982488

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 379209.01.02
P.O. No.: 379209.01.02

Date: April 2, 2009
Collected: March 25, 2009
Received: March 25, 2009
Prep/ Analyzed: March 27, 2009
Analytical Batch: 03EC09I

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

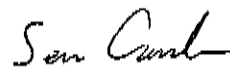
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
982488	SC-700B-WDR-196	µmhos/cm	EPA 120.1	1.00	2.00	6770

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	982488	6770	6780	0.15%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<2.00	---	<2.00	Yes
CCS	694	706	98.3%	90% - 110%	Yes
CVS#1	977	1000	97.7%	90% - 110%	Yes
LCS	694	706	98.3%	90% - 110%	Yes
LCSD	694	706	98.3%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for 
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 379209.01.02

P.O. No.: 379209.01.02

Laboratory No.: 982488

Date: April 2, 2009

Collected: March 25, 2009

Received: March 25, 2009

Prep/ Analyzed: March 27, 2009

Analytical Batch: 03TDS09L

Investigation:

Total Dissolved Solids by SM 2540C

Analytical Results Total Dissolved Solids

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>RL</u>	<u>Results</u>
982488	SC-700B-WDR-196	mg/L	SM 2540C	250	3830

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance Limits	QC Within Control
Duplicate	982488	3830	3900	0.91%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
Blank	ND	<25.0	---	<25.0	Yes
LCS 1	503	500	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
for Mona Nassimi, Manager
Analytical Services

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CHAIN OF CUSTODY RECORD

[IM3] Plant-WDR-196

COC Number

5 Days

TURNAROUND TIME

DATE 03/25/09

PAGE 1 OF 1

982488

COMPANY	E2				
PROJECT NAME	PG&E Topock				
PHONE	(530) 229-3303	FAX	(530) 339-3303		
ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612				
P.O. NUMBER	379209.01.02	TEAM	1		
SAMPLERS (SIGNATURE)					
SAMPLE I.D.	DATE	TIME	DESCRIPTION		
SC-700B-WDR-196	03/25/09	0800	Water		
SC-700B TIME SAMPLED				TIME TESTED	
PH 6.9				0805	
EC 7.38				0806	
TEMP 79.1				0805	
CL 6 -001				0815	
CR TOTAL 1002				0819	
				Turbidity (SM2130)	
				TDS (SM2540C)	
				Specific Conductance (120.1)	
				Total Metals (200.7) Total Chromium	
				Cr6 (218.6) Lab Filtered	
				NUMBER OF CONTAINERS	
				3	
				TOTAL NUMBER OF CONTAINERS	
				3	
				COMMENTS	
				Rec'd 03/25/09	
				SLAB 982488	

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL
	J. Shubert	MAI	0900	<input type="checkbox"/>	<input type="checkbox"/>
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES
	Rafael Davila	T.L.I.	3-25-09 15:30	<input type="checkbox"/>	<input type="checkbox"/>
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS:	
	Rafael Davila	T.L.I.	3-25-09 20:40		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
	J. Shubert	THI	MAR 25 2009 20:40		
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time		
	J. Shubert	Company/ Agency	Date/ Time		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time		
	J. Shubert	Company/ Agency	Date/ Time		