



**Pacific Gas and
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November 15, 2006

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: Board Order R7-2006-0060; WDID No. 7B 36 2033 001
PG&E Topock Compressor Station, Needles, California
Interim Measure No. 3 Groundwater Treatment System
Discharge to Injection Wells
October 2006 Monitoring Report**

Dear Mr. Perdue:

Enclosed is the Board Order R7-2006-0060 October 2006 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 Colorado River Basin Regional Water Quality Control Board (Water Board) under Order R7-2006-0060 (successor to Order R7-2004-0103). These WDRs apply to IM No. 3 Treatment System discharge by subsurface injection.

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

Sincerely,

Curt Russell
Topock Onsite Project Manager

Enclosures:

Order R7-2006-0060 October 2006 Monitoring Report for the IM No. 3 Groundwater Treatment System.

cc: José Cortez, Water Board
Liann Chavez, Water Board
Tom Vandenberg, Water Board
Aaron Yue, DTSC

October 2006 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

November 15, 2006

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155 Grand Avenue, Suite 1000
Oakland, CA 94612

**October 2006 Monitoring Report
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

November 15, 2006

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



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



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Acronyms and Abbreviations

HMI	human-machine interface
IM	Interim Measure
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
STL	Severn Trent Laboratories, Inc.
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 Monitoring and Reporting Program (MRP) under the order requires monthly monitoring reports to be submitted by the fifteenth day of the following month.

This report covers monitoring activities related to operation of the IM No. 3 groundwater treatment system during October 2006. 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.

In addition to Board Order No. R7-2006-0060, the Water Board issued Waste Discharge Requirements (WDRs) for IM No. 3 treatment system discharge to the Colorado River (Board Order R7-2004-0100) and IM No. 3 treatment system discharge to the PG&E Compressor Station (Board Order R7-2004-0080). To date, there has been no IM No. 3 treatment system discharge to the Colorado River or the PG&E Compressor Station. PG&E has no plans to discharge IM No. 3 treatment system effluent to the Colorado River or the PG&E Compressor Station at this time. Reporting of Board Order R7-2004-0080 and Board Order R7-2004-0100 activities will be submitted under separate cover.

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 provided in the process and instrumentation diagrams: Figures TP-PR-10-10-04, TP-PR-10-10-08, and TP-PR-10-10-06.

3.0 Description of Activities

The treatment system was initially operated between July 25 and July 28, 2005 for the 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, includes the following components:

- 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 October 2006, groundwater was pumped from extraction wells TW-2D, TW-3D and PE-1. The target groundwater extraction system pump rate was 135 gallons per minute during October 2006 (excluding planned and unplanned downtime, which is described in Section 4.0).

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:** 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. 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 October 2006 treatment system monthly average flow rates (influent, effluent, and reverse osmosis concentrate) are presented in Table 2.

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 well 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).

In addition to groundwater from extraction wells, the IM No. 3 facility treated:

- Approximately 6,850 gallons of water generated from the groundwater monitoring program during October 2006.
- Approximately 11,000 gallons of purge water generated from injection well IW-02 re-development during October 2006

One container of solids (approximately 12 cubic yards) from the IM No. 3 facility was transported to the Chemical Waste Management at the Kettleman Hills facility during October 2006.

Periods of planned and unplanned extraction system down time (that resulted in 99 percent runtime during October 2006) are summarized below. The times shown are in Pacific Standard Time (PST) to be consistent with other data collected (e.g. water level data) at the site.

- **October 2, 2006 (unplanned):** The extraction well system was shut down from 6:52 a.m. to 7:02 a.m. and from 11:29 a.m. until 11:37 a.m. due to City of Needles Electric Department working on power lines in the area. Extraction system downtime was 18 minutes.
- **October 3, 2006 (unplanned):** The extraction well system was shut down from 12:00 p.m. to 12:08 p.m. and from 12:26 p.m. until 12:30 p.m. while troubleshooting a re-start of the Reverse Osmosis Unit. Extraction system downtime was 12 minutes.
- **October 4, 2006 (unplanned):** The extraction well system was shut down from 10:45 a.m. until 10:48 a.m. due to a power imbalance from the City Of Needles electric system. Extraction system downtime was 3 minutes.
- **October 5, 2006 (unplanned):** The extraction well system was automatically shut down due to a high water level alarm in Tank T-100. The extraction wells were temporarily operated in manual mode after the shutdown. Extraction system downtime was 1 minute.

- **October 9, 2006 (unplanned):** The extraction well system was shut down from 2:50 a.m. to 3:20 a.m. and from 7:12 a.m. until 7:28 a.m. due to a high water level alarm in Tank T-100. Extraction system downtime was 46 minutes.
- **October 11, 2006 (unplanned):** The extraction well system was shut down from 8:19 a.m. until 8:26 a.m., from 8:38 a.m. until 8:41 a.m., and from 1:04 p.m. until 1:35 p.m. due to troubleshooting power imbalance issues caused by the City Of Needles electric system. Extraction system downtime was 41 minutes.
- **October 13, 2006 (unplanned):** The extraction well system was shut down from 9:41 a.m. until 9:44 a.m. and from 10:19 a.m. until 10:22 a.m. due to address a power imbalance caused by the City Of Needles electric system. Extraction system downtime was 6 minutes.
- **October 19, 2006 (unplanned):** The extraction well system was shut down from 6:37 a.m. until 6:46 a.m. to address a power imbalance caused by the City Of Needles electric system. Extraction system downtime was 9 minutes.
- **October 26, 2006 (planned):** The extraction well system was shut down from 11:53 a.m. until 3:35 p.m. to clean out solids that accumulated in the piping between iron oxidation Tanks T-300A and T-301A. Extraction System downtime was 3 hours 42 minutes.

5.0 Sampling and Analytical Procedures

All samples were collected at the designated sampling locations and placed directly into containers provided by Truesdail Laboratories, Inc. (Truesdail) or Severn Trent Laboratories, Inc. (STL). 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 or STL via courier service 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. STL is certified by the California Department of Health Services (Certification No. 1118) under the Environmental Laboratory Accreditation Program. Truesdail forwarded the sludge sample to MBC Laboratory. MBC Laboratory conducted the sludge bioassay test, and is certified by the California Department of Health Services (Certification No. 1788) under the State of California's Environmental Laboratory Accreditation Program.

All 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.

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 was conducted in accordance with the sampling frequency required by the MRP. The sampling analytical results are shown in Tables 3, 4, 5, and 6, respectively.

Groundwater quality is being monitored in observation and compliance wells according to Order R7-2006-0060, and the procedures and schedules approved in the *Groundwater Compliance Monitoring Plan for Interim Measures No. 3 Injection Area* submitted to the Water Board June 17, 2005. 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 prepared by the certified analytical laboratories are presented in Appendix A. The analytical results from groundwater treatment system influent, effluent, reverse osmosis concentrate, and sludge samples are presented in Tables 3, 4, 5, and 6, respectively.

In accordance with the WDR reporting requirements, the following sampling frequency schedule was followed:

- The influent was sampled monthly; sample date October 4, 2006. Results are presented in Table 3.
- The effluent was sampled weekly; sample dates October 4, 11, 18, and 25, 2006. Results are presented in Table 4.
- The reverse osmosis concentrate was sampled monthly; sample date October 4, 2006. Results are presented in Table 5.
- The sludge was sampled monthly; sample date October 4, 2006. In accordance with WDRs, sludge is sampled each time it is transported offsite (unless sludge is transported offsite more frequently than monthly, in which case the sampling frequency is monthly). Results are presented in Table 6.
- The sludge is required to have an aquatic bioassay test quarterly; the 4th Quarter 2006 aquatic bioassay test is scheduled to be conducted with a sludge sample collected in November or December 2006.

Table 7 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.

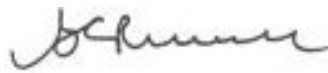
In addition, no incidents of non-compliance were identified during the reporting period, and no events that caused an immediate or potential threat to human health or the environment, or new releases of hazardous waste or hazardous waste constituents, or new solid waste management units were identified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

8.0 Certification

PG&E submitted a signature delegation letter to the Water Board on August 12, 2005. The letter delegated PG&E signature authority to Mr. Curt Russell and Ms. Yvonne Meeks for correspondence regarding Board Order R7-2004-0103. Order R7-2006-0600 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 October 12, 2006 (Appendix B).

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 Onsite Project Manager _____

Date: _____ November 15, 2006 _____

Tables

TABLE 1
Sampling Station Descriptions
October 2006 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
October 2006 Report for Interim Measure No. 3 Groundwater Treatment System

Parameter	System Influent ^{a,b}	System Effluent ^{b,c}	Reverse Osmosis Concentrate ^{b,d}
Average Monthly Flowrate (gpm)	132.3	122.6	10.8

Notes:

gpm: gallons per minute.

^a Extraction wells TW-2D (on October 4th and 5th), TW-3D and PE-1 were operated during October 2006.

^b The difference between influent flow rate and the sum of the effluent and reverse osmosis concentrate flow rates was 0.8 percent, which is within the range of acceptable accuracy considering the margin of error for onsite instrumentation, the water contained within the sludge, purge water treated at the IM-3 facility in addition to the extraction wells, and differences in the inventory of water in the treatment system between the beginning and end of the reporting period.

^c Effluent was discharged into injection wells IW-02 and IW-03 during October 2006.

^d Reverse Osmosis Concentrate flow meter reading from FIT-701.

TABLE 3
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Influent Monitoring Results ^a
October 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																							
<div><div></div><div>Analytes</div><div>Units ^b</div><div>MDL</div></div>	<div><div></div><div>Sample ID</div><div>Date</div></div>	TDS	Turbidity	Specific Conductance	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	pHunits	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	mg/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
		64	0.016	7.1	0.057	0.75	1.8	1.6	0.1	0.28	0.25	0.87	0.000087	0.36	0.018	0.25	1.6	0.2	1.5	0.017	0.001	0.77	0.99	2.0	
SC-100B-WDR-067	10/4/2006	5340	0.12	9460	7.15	2030	2000	ND	ND	ND	ND	ND	1.31	33.8	---	3.00	ND	19.7	ND	---	0.0115	---	ND	ND	
RL		250	0.1	20	2.0	10	20	52	0.5	3.0	5.0	300	0.2	10	---	2.0	500	5.0	20	---	0.005	---	300	20	
SC-100B-WDR-069	10/18/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	1.88	---	---	---	---	3.23	---	631	---	---	
RL		---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	0.2	---	13	---	---	

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

^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

Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Effluent Monitoring Results^a
October 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

NOTES:

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

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R\IM3_WDR.mdb\rpt_EffluentResults_noROWresults

Page 1 of 1
Date Printed 11/10/2006

TABLE 5
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Reverse Osmosis Concentrate Results ^a
October 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																						
<div>Sample ID</div>	<div>Date</div>	<div>Analytes Units ^b MDL</div>	TDS	Specific Conductance	pH	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			mg/L	µmhos/cm	pHunits	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
			320	7.1	0.057	0.00027	0.00018	0.0014	0.0012	0.00087	0.00074	0.0012	0.00075	0.0018	0.18	0.0012	0.00098	0.000049	0.0015	0.0066	0.003	0.00098	0.00089	0.002
SC-701-WDR-067	10/4/2006		22400	36700	7.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.3 J	ND	0.0659	ND	ND	ND	ND	ND	ND	ND
RL			1250	20.0	2.00	0.001	0.002	0.0104	0.0104	0.30	0.0052	0.0052	0.0104	0.0104	2.00	0.0052	0.0104	0.0002	0.02	0.0208	0.0104	0.0052	0.0104	0.02

NOTES:

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

^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

TABLE 6
Board Order No. R7-2006-0060 Waste Discharge Requirements (WDRs)
Sludge Monitoring Results^a
October 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly ^c																		
<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	15000	5.50	ND	32.0	100	ND	7.80	ND	99.0	11.9	ND	ND	1.90	38.0	ND	ND	ND	80.0	61.0
Sample ID	Date																			
SC-Sludge-WDR-067	10/4/2006	15000	5.50	ND	32.0	100	ND	7.80	ND	99.0	11.9	ND	ND	1.90	38.0	ND	ND	ND	80.0	61.0
RL		4.9	0.98	29	4.9	9.8	2.5	2.5	25	12	4.0	2.5	20	0.49	20	2.5	4.9	4.9	25	9.8

NOTES:
(---) = not required by the WDR Monitoring and Reporting Program
ND = parameter not detected at the listed reporting limit
J = concentration or reporting limits estimated by laboratory or validation
mg/kg = milligrams per killogram
mg/L = milligrams per liter
MDL = method detection 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 WDR
^c Sludge shall be tested for the listed constituents each time sludge is transported offsite, unless transport is more frequent than monthly, in which case the sampling frequency shall be monthly

TABLE 7

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

Monitoring Information

October 2006 Monthly Report for Interim Measures 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-067	David Chaney	10/4/2006	9:30:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/5/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/10/2006	Tina Acquiati
					TLI	EPA 180.1	TRB	10/5/2006	Gautam Savani
					TLI	EPA 200.7	NI	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	ZN	10/24/2006	Riddhi Patel
					TLI	EPA 200.7	MN	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	FET	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	CRT	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	BA	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	B	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	AL	10/13/2006	Riddhi Patel
					TLI	EPA 200.8	CU	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	MO	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	PB	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	SB	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	AS	10/17/2006	Riddhi Patel
					TLI	EPA 350.2	NH3N	10/13/2006	Jordan Stavrev
					TLI	EPA 354.1	NO2N	10/5/2006	Tina Acquiati
					TLI	EPA Method 218.6	CR6	10/4/2006	Roger Chen
SC-100B	SC-100B-WDR-069	David Chaney	10/18/2006	1:00:00 PM	TLI	EPA 300.0	SO4	10/18/2006	Stanley Hsieh
					TLI	EPA 300.0	NO3N	10/18/2006	Stanley Hsieh
					TLI	EPA 300.0	FL	10/19/2006	Stanley Hsieh
SC-700B	SC-700B-WDR-067	David Chaney	10/4/2006	9:40:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/5/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/10/2006	Tina Acquiati
					TLI	EPA 180.1	TRB	10/5/2006	Gautam Savani
					TLI	EPA 200.7	B	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	ZN	10/24/2006	Riddhi Patel
					TLI	EPA 200.7	NI	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	MN	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	FET	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	CRT	10/6/2006	Riddhi Patel
					TLI	EPA 200.7	AL	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	BA	10/13/2006	Riddhi Patel
					TLI	EPA 200.8	SB	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	PB	10/17/2006	Riddhi Patel

TABLE 7

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

Monitoring Information

October 2006 Monthly Report for Interim Measures 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-067	David Chaney	10/4/2006	9:40:00 AM	TLI	EPA 200.8	MO	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	CU	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	AS	10/17/2006	Riddhi Patel
					TLI	EPA 350.2	NH3N	10/13/2006	Jordan Stavrev
					TLI	EPA 354.1	NO2N	10/5/2006	Tina Acquiati
					TLI	EPA Method 218.6	CR6	10/4/2006	Roger Chen
SC-700B	SC-700B-WDR-068	Erik Johannsen	10/11/2006	1:00:00 PM	TLI	EPA 120.1	SC	10/19/2006	Tina Acquiati
					TLI	EPA 150.1	PH	10/12/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/17/2006	Tina Acquiati
					TLI	EPA 180.1	TRB	10/12/2006	Gautam Savani
					TLI	EPA 200.7	CRT	10/17/2006	Riddhi Patel
					TLI	EPA Method 218.6	CR6	10/11/2006	Roger Chen
SC-700B	SC-700B-WDR-069	David Chaney	10/18/2006	1:00:00 PM	TLI	EPA 120.1	SC	10/19/2006	Tina Acquiati
					TLI	EPA 150.1	PH	10/19/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/23/2006	Tina Acquiati
					TLI	EPA 180.1	TRB	10/19/2006	Gautam Savani
					TLI	EPA 200.7	CRT	10/25/2006	Riddhi Patel
					TLI	EPA 300.0	FL	10/19/2006	Stanley Hsieh
					TLI	EPA 300.0	NO3N	10/18/2006	Stanley Hsieh
					TLI	EPA 300.0	SO4	10/18/2006	Stanley Hsieh
					TLI	EPA Method 218.6	CR6	10/18/2006	Roger Chen
SC-700B	SC-700B-WDR-070	Chris Knight	10/25/2006	1:45:00 PM	TLI	EPA 120.1	SC	10/26/2006	Tina Acquiati
					TLI	EPA 150.1	PH	10/26/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/26/2006	Tina Acquiati
					TLI	EPA 180.1	TRB	10/26/2006	Gautam Savani
					TLI	EPA 200.7	CRT	10/27/2006	Riddhi Patel
					TLI	EPA Method 218.6	CR6	10/26/2006	Stanley Hsieh
SC-701	SC-701-WDR-067	David Chaney	10/4/2006	10:00:00 AM	TLI	EPA 120.1	SC	10/12/2006	Kim Luck
					TLI	EPA 150.1	PH	10/5/2006	Tina Acquiati
					TLI	EPA 160.1	TDS	10/10/2006	Tina Acquiati
					TLI	EPA 200.7	CRT	10/6/2006	Riddhi Patel
					TLI	EPA 200.7	NI	10/13/2006	Riddhi Patel
					TLI	EPA 200.7	ZN	10/24/2006	Riddhi Patel
					TLI	EPA 200.7	BA	10/13/2006	Riddhi Patel
					TLI	EPA 200.8	MO	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	AS	10/17/2006	Riddhi Patel

TABLE 7

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

Monitoring Information

October 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Location	Sample ID	Sampler Name	Sample Date	Sample Time	Lab	Analysis Method	Parameter	Analysis Date	Lab Technician
SC-701	SC-701-WDR-067	David Chaney	10/4/2006	10:00:00 AM	TLI	EPA 200.8	BE	10/18/2006	Riddhi Patel
					TLI	EPA 200.8	CD	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	CU	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	CO	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	PB	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	SB	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	SE	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	TL	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	V	10/17/2006	Riddhi Patel
					TLI	EPA 200.8	AG	10/18/2006	Riddhi Patel
					TLI	EPA 245.1	HG	10/12/2006	Aksiniya Dimitrova
					TLI	EPA 300.0	FL	11/7/2006	Stanley Hsieh
					TLI	EPA Method 218.6	CR6	10/4/2006	Roger Chen
SC-Sludge	SC-Sludge-WDR-067	Gary Sibble	10/4/2006	9:43:00 AM	STL	EPA 160.3	MOIST	10/7/2006	Janice Salenga
					TLI	EPA 300.0	FL	10/4/2006	Giawad Ghenniwa
					STL	EPA 6010B	NI	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	ZN	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	AS	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	V	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	TL	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	SE	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	SB	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	PB	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	MO	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	CU	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	CRT	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	CO	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	CD	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	BA	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	AG	10/11/2006	Josephine Asuncion
					STL	EPA 6010B	BE	10/11/2006	Josephine Asuncion
					STL	EPA 7471A	HG	10/11/2006	Hao Ton
					STL	SW 7199	CR6	10/13/2006	Yuriy Zakhrabov

TABLE 7

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

Monitoring Information

October 2006 Monthly Report for Interim Measures 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)

TLI = Truesdail Laboratories, Inc.

STL = Severn Trent Laboratories, Inc.

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

Figures

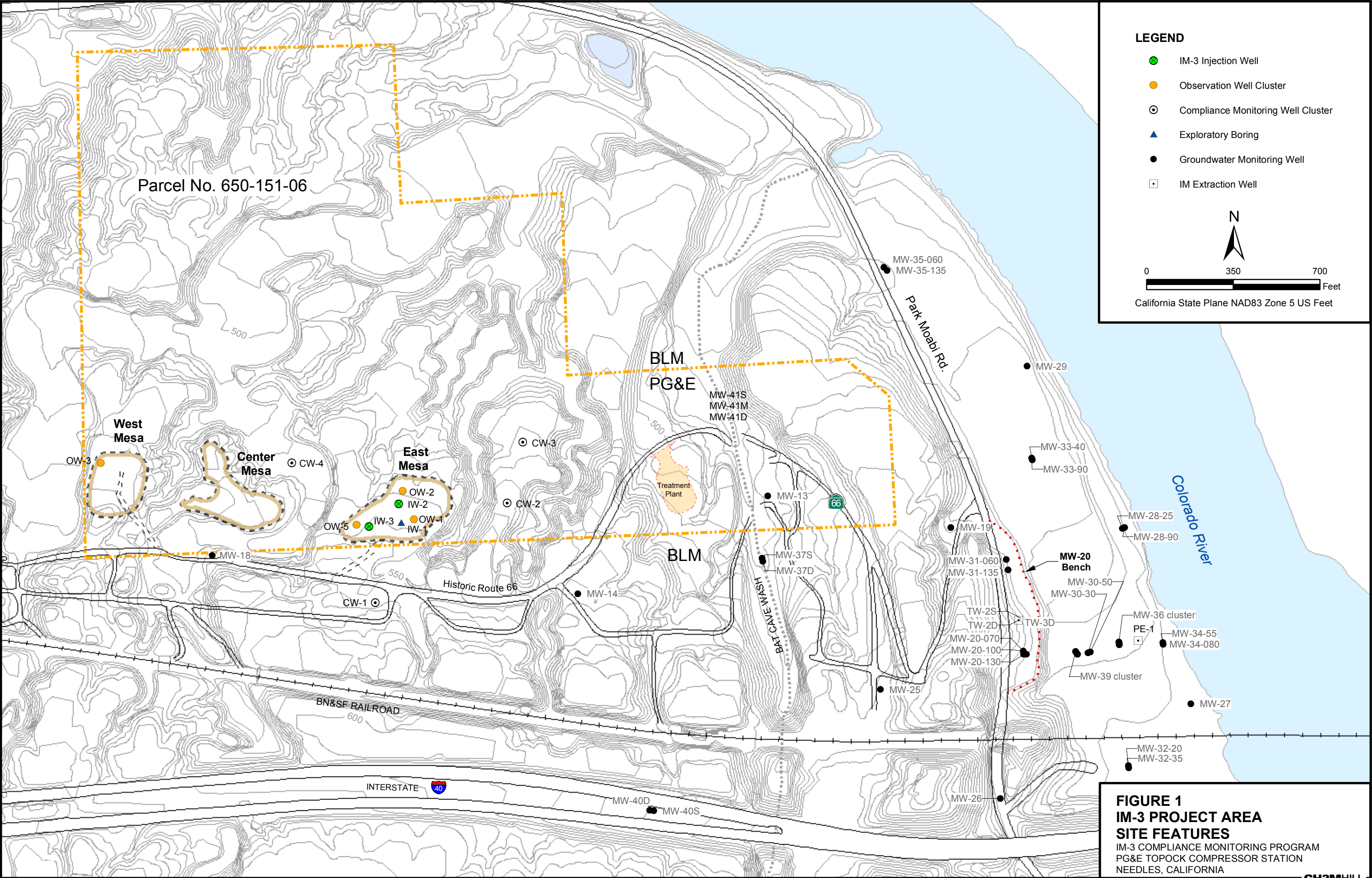
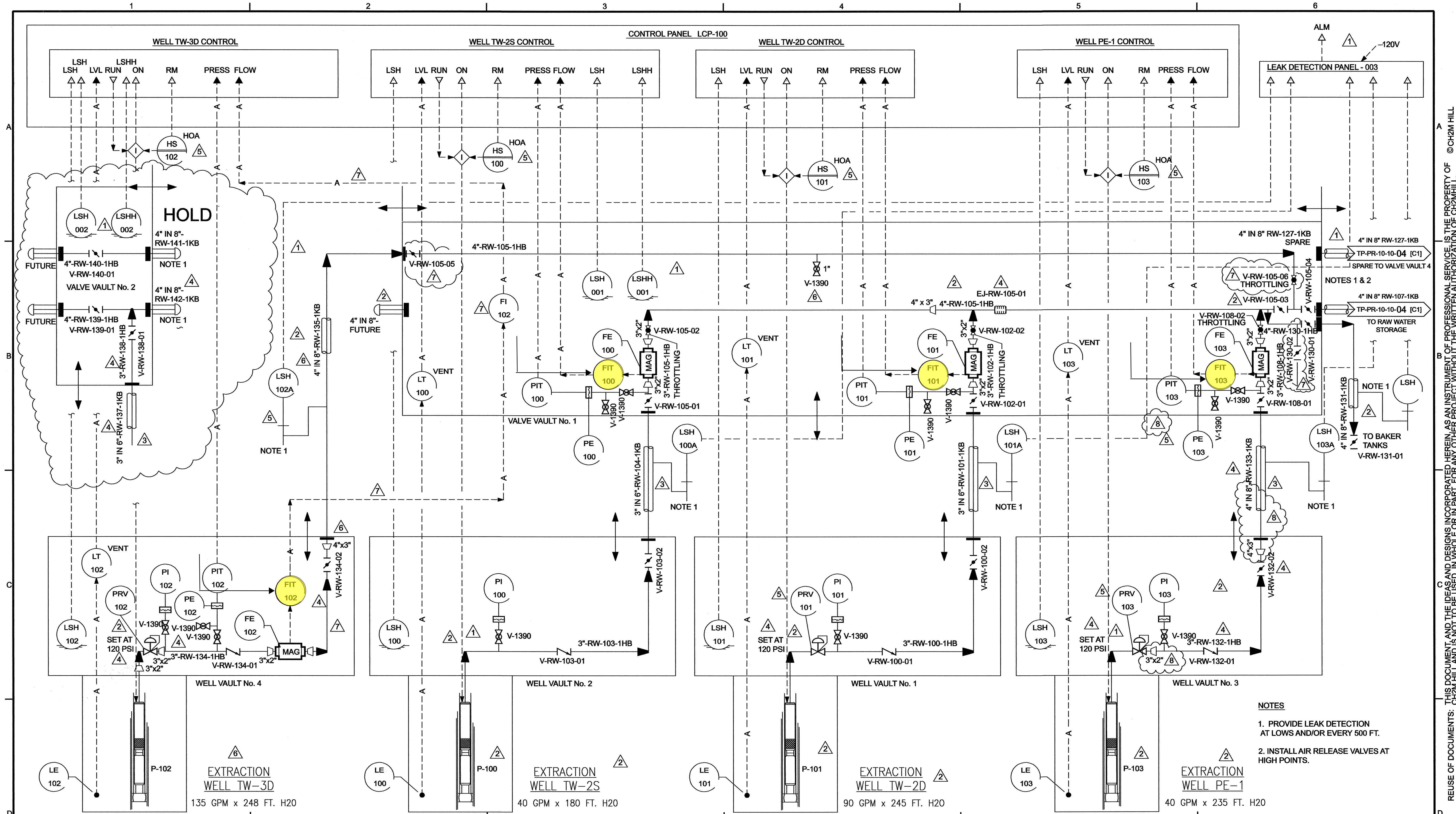
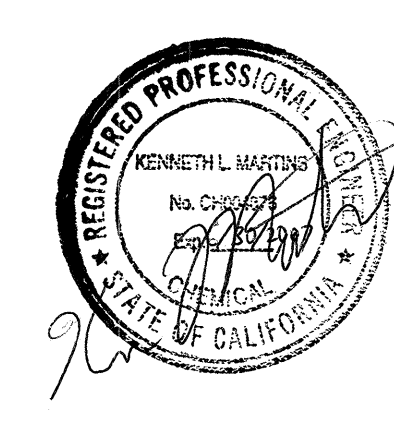


FIGURE 1
IM-3 PROJECT AREA
SITE FEATURES
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPECO COMPRESSOR STATION
NEEDLES, CALIFORNIA



- 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
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.
3	03/16/05	DELETED NOTES. APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL	—	ARCHITECTURAL	—	CLIENT
4	07/20/05	RELIEF VALVE SETTINGS, WELL PE-1 LINE TAGS, HOLDS REMOVED. APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS	—	ENVIRONMENTAL	—	FIELD
5	09/27/05	FINAL RECORD ISSUE	EFC	AJ	PIPING	SDH	GEN. ARRANG.	—	INTRA CO.
6	10/06/05	REVISED FINAL RECORD - ADDED TW-3D	EFC	AJ	—	—	—	—	—
7	10/19/05	REVISED AS NOTED	EFC	AJ	—	—	—	—	—

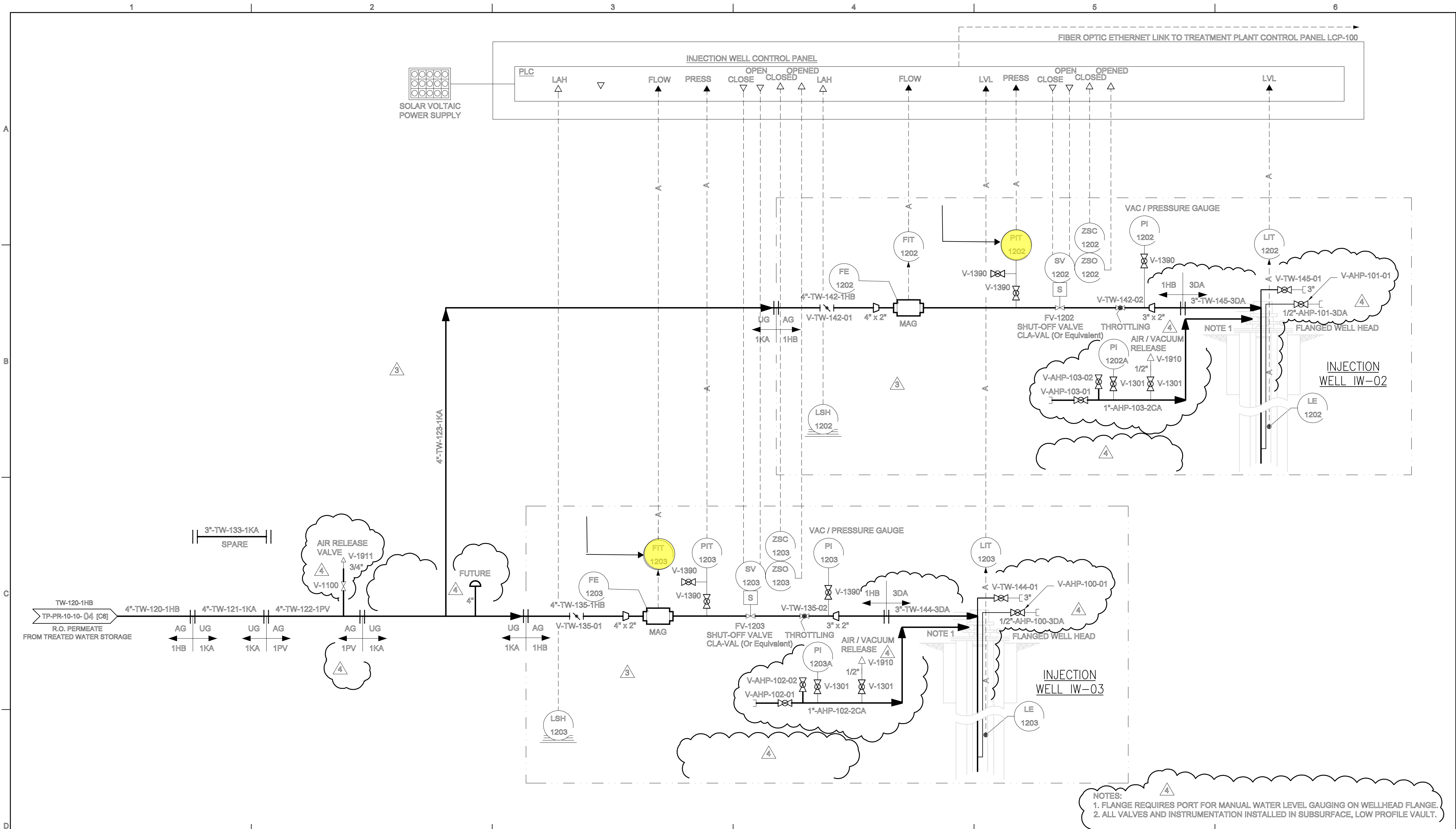
ISSUED	REV	DATE	SDE	PEM
PRELIMINARY				
FOR REVIEW AND APPROVAL	D	07/28/04		
APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
REVISED & APPROVED FOR CONSTRUCTION	7	12/9/05	for KLM	AS

SCALE NONE

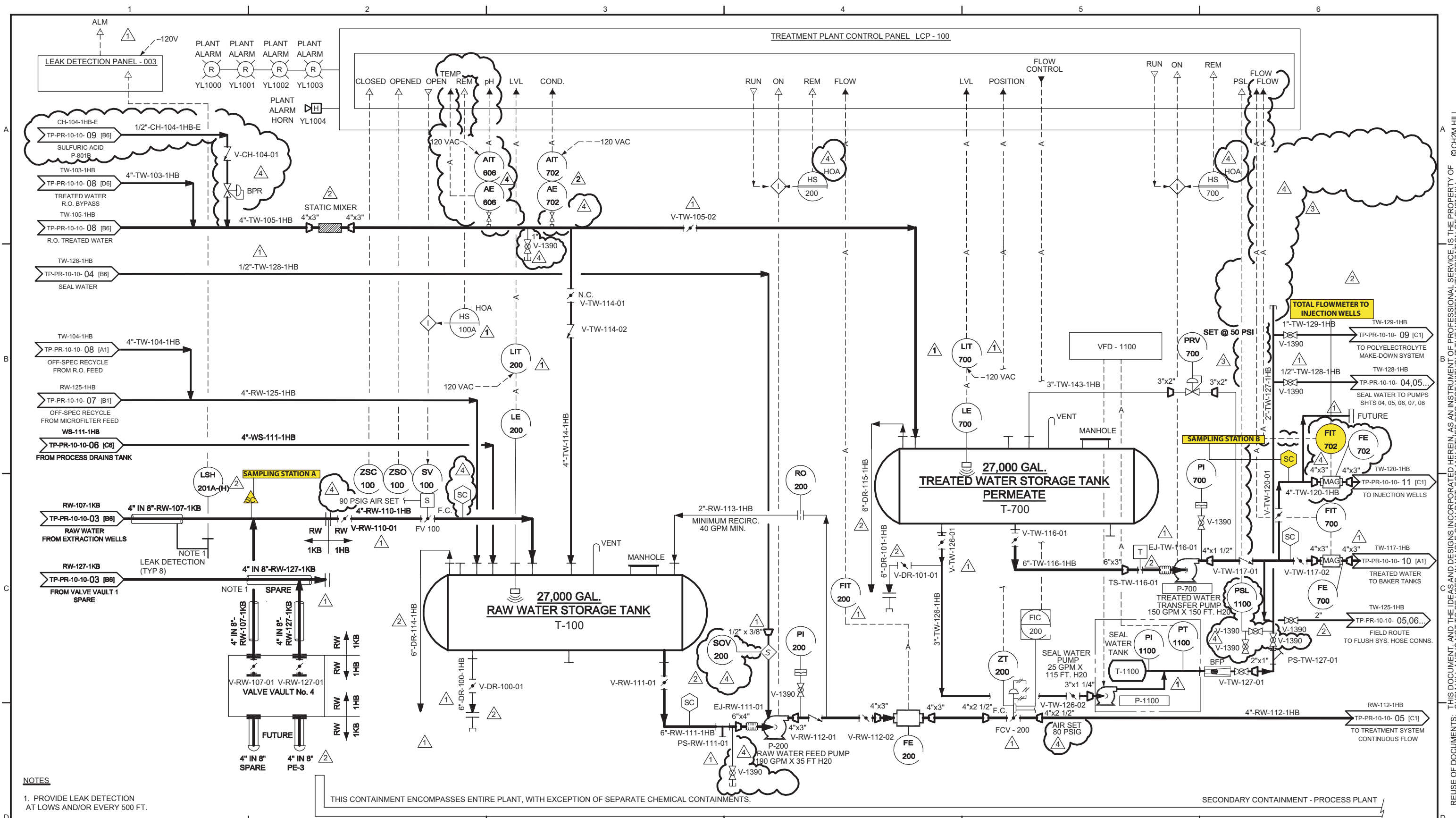
PACIFIC GAS & ELECTRIC CO.
TOPOCK COMPRESSOR STATION
INTERIM MEASURE 3
EXPANDED GROUNDWATER EXTRACTION
AND TREATMENT SYSTEM
PROJ. NO. 315994
CH2MHILL

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

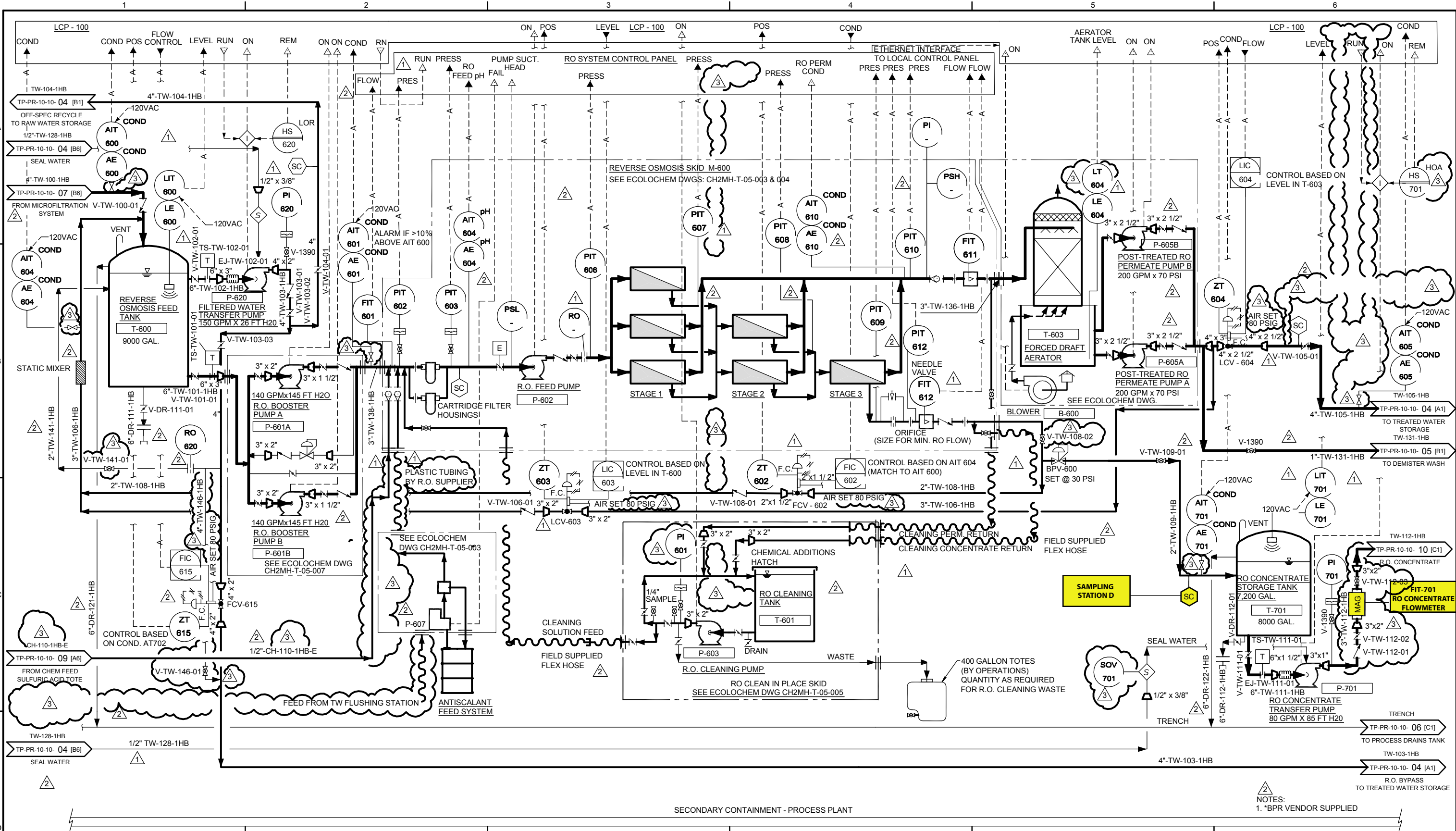


NOTES
1. PROVIDE LEAK DETECTION AT LOWS AND/OR EVERY 500 FT.

THIS CONTAINMENT ENCOMPASSES ENTIRE PLANT, WITH EXCEPTION OF SEPARATE CHEMICAL CONTAINMENTS.

SECONDARY CONTAINMENT - PROCESS PLANT

REVISION	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	
										ISSUED	REV	DATE	SDE	PEM		
										PRELIMINARY						
										FOR REVIEW AND APPROVAL						
										APPROVED FOR CONSTRUCTION						
	0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE						
	0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS						
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.						
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT						
	3	02/14/05	ADDED RECIRC. LINE AND PRV VALVE TO T-700 - APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD						
	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	REVIEWED	STATUS								
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	D	07/28/04						
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT	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

Laboratory Analytical Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

E2 Consulting Engineers, Inc. **PG&E Topock Project**

Laboratory Number: 959459

Received: October 4, 2006

IM3Plant-WDR-067

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2



R E C E I V E D
OCT 30 2006
CH2M HILL
REDDING

Prepared for:

E2 Consulting Engineers, Inc.
Attn: Shawn Duffy
2525 Airpark Dr.
Redding, CA 96001

Prepared by:

TRUESDAIL LABORATORIES, INC.
TUSTIN, CALIFORNIA

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 959459

<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

November 7, 2006

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

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

Dear Mr. Duffy:

SUBJECT: REVISED CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-067 PROJECT,
GROUNDWATER MONITORING,
TLI No.: 959459

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-067 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, Anions, Ammonia, Total Dissolved Solids, and Title 22 Metals. 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 October 4, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

Due to analyst error, Sample I.D.'s SC-100B-WDR-067 and SC-700B-WDR-067 were not analyzed for Fluoride, Sulfate, and Nitrate as requested on the chain of custody. Shawn Duffy was notified.

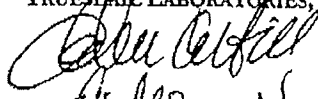
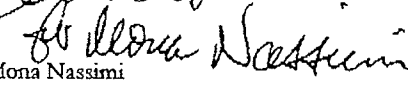
Results for Hexavalent Chromium by EPA 218.6 are reported in the matrix spike calculations although they are below the reporting limit due to the small amount of Hexavalent Chromium present in the samples.

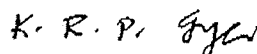
Shawn Duffy requested that the Fluoride sample for Sample I.D. SC-701-WDR-067 be re-analyzed at a dilution due to the Chloride interference seen on the chromatogram. The result for the re-analysis was reported but was past the method specified holding time.

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

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.



Mona Nassimi
Manager, Analytical Services



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

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

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

Laboratory No.: 959459

Date: November 7, 2006

Collected: October 4, 2006

Received: October 4, 2006

Revision 1

ANALYST LIST

EPA 120.1	Specific Conductivity	Kim Luck
EPA 150.1	pH	Tina Acquiati
EPA 160.1	Total Dissolved Solids	Tina Acquiati
EPA 180.1	Turbidity	Gautam Savani
EPA 300.0	Anions	Giawad Ghenniwa
EPA 350.2	Ammonia	Jordan Stavrev
EPA 354.1	Nitrite as N	Tina Acquiati
EPA 200.7	Metals by ICP	Riddhi Patel
EPA 200.8	Metals by ICP/MS	Riddhi Patel
EPA 245.1	Mercury	Aksiniya Dimitrova
EPA 218.6	Hexavalent Chromium	Roger Chen

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Attention: Shawn Duffy

Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Laboratory No.: 959459
Date Received: October 4, 2006
Revision 1

Analytical Results Summary

Lab I.D.	Sample I.D.	Sample Time	EPA 150.1 pH	EPA 120.1 EC	EPA 160.1 TDS	EPA 180.1 Turbidity	EPA 218.6 Hexavalent Chromium	EPA 350.2 Ammonia
			Units	$\mu\text{mhos/cm}$	mg/L	NTU	mg/L	mg/L
959459-1	SC-100B-WDR-067	09:30	7.15	9460	5340	0.120	2.00	ND
959459-2	SC-700B-WDR-067	09:40	7.50	9620	4240	ND	ND	ND
959459-3	SC-701-WDR-067	10:00	7.26	36700	22400	—	ND	—

Lab I.D.	Sample I.D.	Sample Time	EPA 300.0 Fluoride	EPA 354.1 Nitrite as N
			mg/L	mg/L
959459-1	SC-100B-WDR-067	09:30	—	0.0115
959459-2	SC-700B-WDR-067	09:40	—	ND
959459-3	SC-701-WDR-067	10:00	12.3	—

ND: Non Detected (below reporting limit)
mg/L: Milligrams per liter.

Notes: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppm will have two (2) significant figures.
Results above or equal to 0.01ppm will have three (3) significant figures.
Quality Control data will always have three (3) significant figures.

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

Client: E2 Consulting Engineers, Inc.

155 Grand Ave. Suite 1000

Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 959459

Date Received: October 4, 2006

Revision 2

Analytical Results Summary

METALS ANALYSIS: Total Metal Analyses as Requested

Lab I.D.	Sample ID	Time Coll.	Date of Analysis:	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
959459-1	SC-100B-WDR-067	09:30	ND	ND	0.0032	ND	ND	ND	2.03	ND	0.0338	0.0030
959459-2	SC-700B-WDR-067	09:40	ND	ND	ND	ND	ND	ND	ND	ND	0.0400	0.0040
959459-3	SC-701-WDR-067	10:00	ND	ND	ND	ND	ND	ND	ND	ND	0.0247	ND

Lab I.D.	Sample ID	Time Coll.	Date of Analysis:	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
959459-1	SC-100B-WDR-067	09:30	ND	ND	ND	0.0197	ND	ND	ND	ND	ND	ND
959459-2	SC-700B-WDR-067	09:40	0.0678	0.0678	ND	0.0134	ND	ND	ND	ND	ND	ND
959459-3	SC-701-WDR-067	10:00	ND	ND	0.0659	0.0659	ND	0.0108	0.0467	ND	ND	ND

Lab I.D.	Sample ID	Time Coll.	Date of Analysis:	Boron	Iron
959459-1	SC-100B-WDR-067	09:30	ND	1.31	ND
959459-2	SC-700B-WDR-067	09:40	ND	1.14	ND
959459-3	SC-701-WDR-067	10:00	ND	ND	ND

NOTES:

ND: Not detected, or below limit of detection

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Section 3.0

Final Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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Client: E2 Consulting Engineers, Inc.
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REPORT

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www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 959459

Sample: Three (3) Groundwater Samples

Date: October 26, 2006

Project Name: PG&E Topock Project

Collected: October 4, 2006

Project No.: 346129.IM.02.E2

Received: October 4, 2006

P.O. No.: 346129.IM.02.E2

Prep/ Analyzed: October 5, 2006

Analytical Batch: 10PH06D

Investigation:

pH by EPA 150.1

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
959459-1	SC-100B-WDR-067	08:44	pH Units	0.0570	2.00	7.15
959459-2	SC-700B-WDR-067	08:48	pH Units	0.0570	2.00	7.50
959459-3	SC-701-WDR-067	08:52	pH Units	0.0570	2.00	7.26

QA/QC Summary

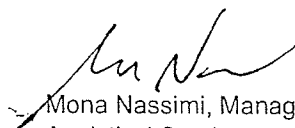
<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	959455	7.28	7.29	0.01	± 0.100 Units	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
LCS	7.01	7.00	0.01	± 0.100 Units	Yes
LCS #1	7.02	7.00	0.02	± 0.100 Units	Yes
LCS #2	7.02	7.00	0.02	± 0.100 Units	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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008

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Laboratory No.: 959459

Sample: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Date: October 26, 2006
Collected: October 4, 2006
Received: October 4, 2006
Prep/ Analyzed: October 12, 2006
Analytical Batch: 10EC06J

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

TLI I.D.	Field I.D.	Units	Method	DF	RL	Results
959459-1	SC-100B-WDR-067	µmhos/cm	EPA 120.1	10.0	20.0	9460
959459-2	SC-700B-WDR-067	µmhos/cm	EPA 120.1	10.0	20.0	9620
959459-3	SC-701-WDR-067	µmhos/cm	EPA 120.1	10.0	20.0	36700

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959465-4	19300	19100	1.04%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	700	706	99.2%	90% - 110%	Yes
CVS#1	989	1000	98.9%	90% - 110%	Yes
CVS#2	981	1000	98.1%	90% - 110%	Yes
LCS	720	706	102%	90% - 110%	Yes
LCSD	718	706	102%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 959459

Date: October 26, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: October 10, 2006

Analytical Batch: 10TDS06D

Investigation:

Total Dissolved Solids by EPA 160.1

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>
959459-1	SC-100B-WDR-067	mg/L	EPA 160.1	250	5340
959459-2	SC-700B-WDR-067	mg/L	EPA 160.1	250	4240
959459-3	SC-701-WDR-067	mg/L	EPA 160.1	1250	22400

QA/QC Summary

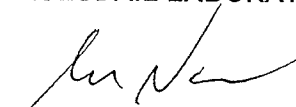
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959409-3	2220	2180	0.91%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	465	500	93.0%	90% - 110%	Yes
LCS 2	493	500	98.6%	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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www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 959459

Sample: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Date: October 26, 2006
Collected: October 4, 2006
Received: October 4, 2006
Prep/ Analyzed: October 5, 2006
Analytical Batch: 10TUC06G

Investigation:

Turbidity by Method EPA 180.1

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>
959459-1	SC-100B-WDR-067	09:30	NTU	1.00	0.100	0.120
959459-2	SC-700B-WDR-067	09:40	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	959459-2	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.60	8.00	95.0%	90% - 110%	Yes
LCS	7.65	8.00	95.6%	90% - 110%	Yes

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

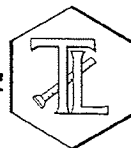
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


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: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Prep. Batch: 10CrH06F

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Laboratory No.: 959459

Date: October 26, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: October 4, 2006

Analytical Batch: 10CrH06F

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
959459-1	SC-100B-WDR-067	09:30	19:28	mg/L	100	0.0200	2.00
959459-2	SC-700B-WDR-067	09:40	19:08	mg/L	1.05	0.00020	ND
959459-3	SC-701-WDR-067	10:00	22:27	mg/L	10.0	0.0020	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Sample Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959459-1	2.00	2.00	0.00%	< 20%	Yes

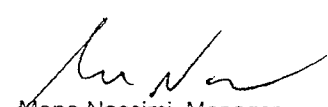
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	959459-1	2.00	100	0.0250	2.50	4.56	4.50	102%	90-110%	Yes
MS	959459-2	0.00	1.06	0.00100	0.00106	0.00100	0.00106	94.3%	90-110%	Yes
MS	959459-3	0.00	1.06	0.00100	0.00106	0.00	0.00106	0.00%	90-110%	No
MS	959459-3	0.00	5.00	0.00100	0.00500	0.00	0.00500	0.00%	90-110%	No
MS	959459-3	0.00	10.0	0.00100	0.0100	0.00998	0.0100	99.8%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00493	0.00500	98.6%	90% - 110%	Yes
MRCVS#1	0.00995	0.0100	99.5%	95% - 105%	Yes
MRCVS#2	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#3	0.0102	0.0100	102%	95% - 105%	Yes
LCS	0.00495	0.00500	99.0%	90% - 110%	Yes
LCSD	0.00492	0.00500	98.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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www.truesdail.com

Laboratory No.: 959459

Date: October 26, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: October 13, 2006

Analytical Batch: 10NH306B

Investigation:

Ammonia as N by Method EPA 350.2

Analytical Results Ammonia as N

TLI I.D.	Field I.D.	Sample Time	Method	Units	DF	RL	Results
959459-1	SC-100B-WDR-067	09:30	EPA 350.2	mg/L	1.00	0.500	ND
959459-2	SC-700B-WDR-067	09:40	EPA 350.2	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		959459-1		ND	ND	0.0%	≤ 20%	Yes	

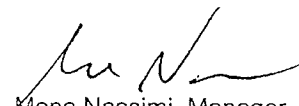
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	959459-2	0.00	1.00	10.0	10.0	10.1	10.0	101%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	9.71	10.0	97.1%	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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Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 959459

Date: November 7, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: November 7, 2006

Analytical Batch: 11AN06D

Revision 1

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
959459-3	SC-701-WDR-067	10:00	14:33	mg/L	10.0	2.00	12.3

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	959459-3	12.3	12.3	0.447%	≤ 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	960409-5	1.09	1.00	2.00	2.00	3.12	3.09	102%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.15	4.00	104%	90% - 110%	Yes
MRCVS#1	3.15	3.00	105%	90% - 110%	Yes
MRCVS#2	3.16	3.00	105%	90% - 110%	Yes
MRCVS#3	3.15	3.00	105%	90% - 110%	Yes
LCS	4.15	4.00	104%	90% - 110%	Yes
LCSD	4.15	4.00	104%	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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11/10/06

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REPORT

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

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

Laboratory No.: 959459

Date: October 26, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: October 5, 2006

Analytical Batch: 10NO206D

Investigation:

Nitrite as N by Method EPA 354.1

Analytical Results for Nitrite as N

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959459-1	SC-100B-WDR-067	09:30	13:44	mg/L	1.00	0.0050	0.0115
959459-2	SC-700B-WDR-067	09:40	13:45	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		959459-1		0.0115	0.0121		5.08%	≤ 20%	Yes	

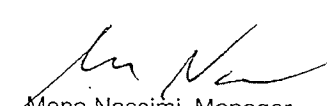
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	959459-1	0.0115	1.00	0.100	0.100	0.107	0.112	95.5%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0928	0.0900	103%	90% - 110%	Yes
MRCVS#1	0.0939	0.100	93.9%	90% - 110%	Yes
LCS	0.177	0.180	98.3%	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

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

Attention: Shawn Duffy

Samples: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Investigation: Total Metal Analyses as Requested

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

Laboratory No.: 959459

Reported: November 9, 2006

Collected: October 4, 2006

Received: October 4, 2006

Analyzed: October 6 - 24, 2006

Revision 2

Analytical Results

SAMPLE ID: SC-100B-WDR-067		Time Collected: 09:30		LAB ID: 959459-1				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Aluminum	EPA 200.7	ND	1.04	mg/L	0.0520	101306B	10/13/06	18:12
Antimony	EPA 200.8	ND	2.08	mg/L	0.0030	101706A	10/17/06	16:16
Arsenic	EPA 200.8	ND	2.08	mg/L	0.0050	101706A	10/17/06	16:16
Barium	EPA 200.7	ND	1.04	mg/L	0.300	101306B	10/13/06	18:12
Bismuth	EPA 200.7	2.03	1.04	mg/L	0.0104	101306B	10/13/06	18:12
Copper	EPA 200.8	0.0338	2.08	mg/L	0.0100	101706A	10/17/06	16:16
Lead	EPA 200.8	0.0030	2.08	mg/L	0.0021	101706A	10/17/06	16:16
Manganese	EPA 200.7	ND	1.04	mg/L	0.500	101306B	10/13/06	18:12
Molybdenum	EPA 200.8	0.0197	2.08	mg/L	0.0050	101706A	10/17/06	16:16
Nickel	EPA 200.7	ND	1.04	mg/L	0.0208	101306B	10/13/06	18:12
Zinc	EPA 200.7	ND	1.04	mg/L	0.0208	102406A	10/24/06	12:30
Boron	EPA 200.7	1.31	1.04	mg/L	0.200	101306B	10/13/06	18:12
Cadmium	EPA 200.7	ND	1.04	mg/L	0.300	101306B	10/13/06	18:12

SAMPLE ID: SC-700B-WDR-067		Time Collected: 09:40		LAB ID: 959459-2				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Aluminum	EPA 200.7	ND	1.04	mg/L	0.0520	101306B	10/13/06	18:29
Antimony	EPA 200.8	ND	2.08	mg/L	0.0030	101706A	10/17/06	16:22
Arsenic	EPA 200.8	ND	2.08	mg/L	0.0050	101706A	10/17/06	16:22
Barium	EPA 200.7	ND	1.04	mg/L	0.300	101306B	10/13/06	18:29
Bismuth	EPA 200.7	ND	1.04	mg/L	0.0010	100606A	10/06/06	12:02
Copper	EPA 200.8	0.0400	2.08	mg/L	0.0100	101706A	10/17/06	16:22
Lead	EPA 200.8	0.0040	2.08	mg/L	0.0021	101706A	10/17/06	16:22
Manganese	EPA 200.7	ND	1.04	mg/L	0.500	101306B	10/13/06	18:29
Molybdenum	EPA 200.8	0.0134	2.08	mg/L	0.0050	101706A	10/17/06	16:22
Nickel	EPA 200.7	ND	1.04	mg/L	0.0208	101306B	10/13/06	18:29
Zinc	EPA 200.7	ND	1.04	mg/L	0.0208	102406A	10/24/06	11:31
Boron	EPA 200.7	1.14	1.04	mg/L	0.200	101306B	10/13/06	18:29
Cadmium	EPA 200.7	ND	1.04	mg/L	0.300	101306B	10/13/06	18:29

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Handwritten signature



TRUESDAIL LABORATORIES, INC.

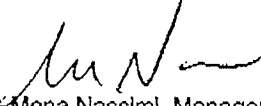
Report Continued

SAMPLE ID: SC-701-WDR-067		Time Collected: 10:00		LAB ID: 959459-3				
Parameter	Method	Reported Value	DF	Units	RL	Batch	Date Analyzed	Time Analyzed
Antimony	EPA 200.8	ND	10.4	mg/L	0.0052	101706A	10/17/06	16:28
Arsenic	EPA 200.8	ND	10.4	mg/L	0.0052	101706A	10/17/06	16:28
Barium	EPA 200.7	ND	1.04	mg/L	0.300	101306B	10/13/06	18:33
Beryllium	EPA 200.8	ND	10.4	mg/L	0.0052	101806A	10/18/06	11:21
Cadmium	EPA 200.8	ND	10.4	mg/L	0.0052	101706A	10/17/06	16:28
Chromium	EPA 200.7	ND	1.04	mg/L	0.0010	100606A	10/06/06	12:07
Cobalt	EPA 200.8	ND	10.4	mg/L	0.0052	101706A	10/17/06	16:28
Copper	EPA 200.8	0.0247	10.4	mg/L	0.0104	101706A	10/17/06	16:28
Lead	EPA 200.8	ND	10.4	mg/L	0.0104	101706A	10/17/06	16:28
Mercury	EPA 245.1	ND	1.00	mg/L	0.00020	10HG06C	10/12/06	14:23
Molybdenum	EPA 200.8	0.0659	10.4	mg/L	0.0104	101706A	10/17/06	16:28
Nickel	EPA 200.7	ND	1.04	mg/L	0.0208	101306B	10/13/06	18:33
Selenium	EPA 200.8	0.0108	10.4	mg/L	0.0104	101706A	10/17/06	16:28
Silver	EPA 200.8	0.0467	10.4	mg/L	0.0052	101806A	10/18/06	11:21
Thallium	EPA 200.8	ND	10.4	mg/L	0.0104	101706A	10/17/06	16:28
Vanadium	EPA 200.8	ND	10.4	mg/L	0.0052	101706A	10/17/06	16:28
Zinc	EPA 200.7	ND	1.04	mg/L	0.0208	102406A	10/24/06	11:39

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

[IM3Plant-WDR-067]

COC Number

10 Days

TURNAROUND TIME

DATE 10-4-06 PAGE 1 OF 1

COMPANY	E2	PROJECT NAME		PG&E Topock	PHONE		(530) 229-3303	FAX	(530) 339-3303	ADDRESS		155 Grand Ave Site 1000 Oakland, CA 94612	P.O. NUMBER	346129.1m.02.E2	SAMPLERS (SIGNATURE)		SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (218.6) Lab Filtered	Total Metals (200.7) Title 22	ALAS Ba B Cr Cu Pb Mn Mo Ni Sh Fe Zn	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Anions (300) FI	Anions (300) FI, SO4, NO2, NO3	Ammonia (350.2)	Turbidity (180.1)	NUMBER OF CONTAINERS	COMMENTS	
SC-100B-WDR-067	10-4-06	9:30	Groundwater	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4	pH -2
SC-700B-WDR-067	10-4-06	9:40	Groundwater	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4	pH -2
SC-701-WDR-067	10-4-06	10:00	Groundwater	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	pH -2
																		7	TOTAL NUMBER OF CONTAINERS														

For Sample Conditions
See Form Attached

ALERT!!

TTT OC

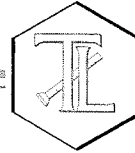
CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	SAMPLE CONDITIONS RECEIVED COOL <input type="checkbox"/> WARM <input type="checkbox"/> °F CUSTODY SEALED YES <input type="checkbox"/> NO <input type="checkbox"/>
Signature (Received)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	
Signature (Relinquished)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	SPECIAL REQUIREMENTS:
Signature (Received)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	
Signature (Relinquished)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	
Signature (Received)		Printed Name	David Chapp	Company/Agency	ONT	Date/Time	10-4-06	

082

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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October 23, 2006

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

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-068 PROJECT, GROUNDWATER
MONITORING,
TLI NO.: 959696

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-068 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, 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 October 11, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

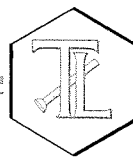
Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Manager, Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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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.: 346129.IM.02.E2

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

Laboratory No.: 959696

Date: October 23, 2006

Collected: October 11, 2006

Received: October 11, 2006

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Riddhi Patel
EPA 218.6	Hexavalent Chromium	Roger Chen

TRUESDAIL LABORATORIES, INC.

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REPORT

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

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

Attention: Shawn Duffy

Laboratory No.: 959696

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2
Prep. Batch: 101706A

Date: October 23, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 17, 2006
Analytical Batch: 101706A

Investigation: Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using 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>
959696	SC-700B-WDR-068	mg/L	EPA 200.7	11:27	1.04	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959696	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	959696	0.00	1.04	0.0100	0.0104	0.00843	0.0104	81.1%	75-125%	Yes

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

ND: Not detected at reporting limit

DF: Dilution Factor

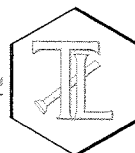
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

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

Attention: Shawn Duffy

Laboratory No.: 959696

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Date: October 23, 2006
Collected: October 11, 2006
Received: October 11, 2006
Prep/ Analyzed: October 11, 2006
Analytical Batch: 10CrH06P

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>
959696	SC-700B-WDR-068	13:00	20:45	mg/L	1.05	0.00020	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959696	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	959696	0.00	1.06	0.00100	0.00106	0.00107	0.00106	101%	90-110%	Yes
MSD	959696	0.00	1.06	0.00100	0.00106	0.00112	0.00106	106%	90-110%	Yes

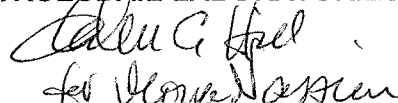
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00491	0.00500	98.2%	90% - 110%	Yes
MRCVS#1	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#2	0.0101	0.0100	101%	95% - 105%	Yes
LCS	0.00495	0.00500	99.0%	90% - 110%	Yes
LCSD	0.00492	0.00500	98.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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REPORT

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

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 959696

Date: October 23, 2006

Collected: October 11, 2006

Received: October 11, 2006

Prep/ Analyzed: October 12, 2006

Analytical Batch: 10TUC06L

Investigation:

Turbidity by Method EPA 180.1

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>
959696	SC-700B-WDR-068	13:00	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	959612-3	0.0640	0.0670	4.58%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.55	8.00	94.4%	90% - 110%	Yes
LCS	7.50	8.00	93.8%	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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(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.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 959696

Date: October 23, 2006

Collected: October 11, 2006

Received: October 11, 2006

Prep/ Analyzed: October 12, 2006

Analytical Batch: 10PH06J

Investigation:

pH by EPA 150.1

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
959696	SC-700B-WDR-068	13:00	09:18	pH Units	0.0570	2.00	7.53

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959698-5	7.42	7.42	0.00	± 0.100 Units	Yes

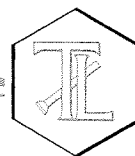
QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.01	7.00	0.01	± 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 959696

Date: October 23, 2006

Collected: October 11, 2006

Received: October 11, 2006

Prep/ Analyzed: October 19, 2006

Analytical Batch: 10EC06S

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>
959696	SC-700B-WDR-068	µmhos/cm	EPA 120.1	1.00	2.00	6440

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959934-7	17000	17000	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	711	706	101%	90% - 110%	Yes
CVS#1	981	1000	98.1%	90% - 110%	Yes
CVS#2	989	1000	98.9%	90% - 110%	Yes
LCS	706	706	100%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 959696

Date: October 23, 2006

Collected: October 11, 2006

Received: October 11, 2006

Prep/ Analyzed: October 19, 2006

Analytical Batch: 10TDS06I

Investigation:

Total Dissolved Solids by EPA 160.1

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>
959696	SC-700B-WDR-068	mg/L	EPA 160.1	250	4180

QA/QC Summary

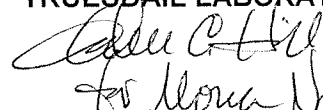
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	959698-5	0.0601	0.0585	1.35%	≤ 5%	Yes

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

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


for Mona Nassimi -
Mona Nassimi, Manager
Analytical Services

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

CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-068]

959696

COC Number

TURNAROUND TIME 5 Days

DATE 10-11-06 PAGE 1 OF 1

COMPANY E2	PROJECT NAME PG&E Topock	PHONE (530) 229-3303	FAX (530) 339-3303	ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER 346129.1M.02.E2	SAMPLERS (SIGNATURE) 	DATE 10-11-06	TIME 1300	DESCRIPTION Groundwater	CR6 (218.6) Lab Filtered	Total Metals (200.7) Total Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Turbidity (180.1)	Rec'd 10/11/06 sl2a 959696	NUMBER OF CONTAINERS 3	COMMENTS
SAMPLE I.D.										TOTAL NUMBER OF CONTAINERS 3								
SC-700B-WDR-068										pH=2								

026

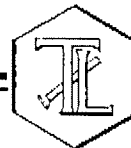
For Sample Conditions
See Form Attached

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	RECEIVED	COOL	WARM	°F
	Eddie Johnson	Omni	10-11-06 1530	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signature (Received)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED	YES	NO	
J. Brown	J. Brown	TU	10-11-06 2040	<input type="checkbox"/>	<input type="checkbox"/>	<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				

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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October 26, 2006

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

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-069 PROJECT, GROUNDWATER
MONITORING,

TLI No.: 959933

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-069 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, Anions (NO₃, SO₄, F), 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 October 18, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Manager, Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

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

Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

ANALYST LIST

EPA 120.1	Specific Conductivity	Tina Acquiat
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Riddhi Patel
EPA 218.6	Hexavalent Chromium	Roger Chen

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

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

Attention: Shawn Duffy

Laboratory No.: 959933

Sample: Two (2) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2
Prep. Batch: 102506A

Date: November 3, 2006
Collected: October 18, 2006
Received: October 18, 2006
Prep/ Analyzed: October 25, 2006
Analytical Batch: 102506A
Revision 1

Investigation: Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using 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>
959933-1	SC-700B-WDR-069	mg/L	EPA 200.7	10:37	1.04	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959933-1	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	959933-1	0.00	1.04	0.0100	0.0104	0.00749	0.0104	72.0%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#1	0.0102	0.0100	102%	90% - 110%	Yes
ICS	0.0103	0.0100	103%	80% - 120%	Yes
LCS	0.00963	0.0100	96.3%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

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007

amend 11/3/06

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

Laboratory No.: 959933

Date: October 27, 2006
Collected: October 18, 2006
Received: October 18, 2006
Prep/ Analyzed: October 18, 2006
Analytical Batch: 10CrH06AA

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>
959933-1	SC-700B-WDR-069	13:00	21:14	mg/L	5.00	0.00100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959933-1	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	959933-1	0.00	5.00	0.00100	0.00500	0.00489	0.00500	97.8%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00494	0.00500	98.8%	90% - 110%	Yes
MRCVS#2	0.00992	0.0100	99.2%	95% - 105%	Yes
LCS	0.00489	0.00500	97.9%	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 19, 2006

Analytical Batch: 10TUC06R

Investigation:

Turbidity by Method EPA 180.1

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>
959933-1	SC-700B-WDR-069	13:00	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	959886-2	0.0850	0.0870	2.33%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.35	8.00	91.9%	90% - 110%	Yes
LCS	7.30	8.00	91.3%	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 959933

Date: October 27, 2006
Collected: October 18, 2006
Received: October 18, 2006
Prep/ Analyzed: October 19, 2006
Analytical Batch: 10PH06Q

Investigation:

pH by EPA 150.1

Analytical Results pH

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
959933-1	SC-700B-WDR-069	13:00	07:45	pH Units	0.0570	2.00	7.18

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	959934-7	7.02	7.02	0.00	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.02	7.00	0.0200	+ 0.100 Units	Yes
LCS #1	7.01	7.00	0.0100	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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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) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 19, 2006

Analytical Batch: 10EC06S

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>
959933-1	SC-700B-WDR-069	µmhos/cm	EPA 120.1	10.0	20.0	8280

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	959934-7	17000	17000	0.00%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	711	706	101%	90% - 110%	Yes
CVS#1	981	1000	98.1%	90% - 110%	Yes
CVS#2	989	1000	98.9%	90% - 110%	Yes
LCS	706	706	100%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 20, 2006

Analytical Batch: 10TDS06L

Investigation:

Total Dissolved Solids by EPA 160.1

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>
959933-1	SC-700B-WDR-069	mg/L	EPA 160.1	250	4090

QA/QC Summary

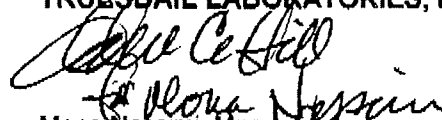
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance Limits	QC Within Control
Duplicate	959934-7	0.0676	0.0673	0.222%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	472	500	94.4%	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
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Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 19, 2006

Analytical Batch: 10AN06U

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
959933-1	SC-700B-WDR-069	13:00	17:46	mg/L	1.00	0.200	1.80
959933-2	SC-100B-WDR-069	13:00	17:57	mg/L	1.00	0.200	1.88

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959932	1.60	1.58	1.45%	≤ 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	959932	1.60	1.00	2.00	2.00	3.76	3.60	108%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.15	4.00	104%	90% - 110%	Yes
MRCVS#1	3.16	3.00	105%	90% - 110%	Yes
LCS	4.13	4.00	103%	90% - 110%	Yes
LCSD	4.10	4.00	103%	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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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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TUSTIN, CALIFORNIA 92780-7008
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Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 18, 2006

Analytical Batch: 10AN06T

Investigation:

Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
959933-1	SC-700B-WDR-069	13:00	12:49	mg/L	25.0	12.5	457
959933-2	SC-100B-WDR-069	13:00	13:00	mg/L	25.0	12.5	631

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	959931-8	225	223	0.893%	≤ 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	959931-8	225	25.0	20.0	500	726	725	100%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	19.8	20.0	99.0%	90% - 110%	Yes
MRCVS#1	15.1	15.0	100%	90% - 110%	Yes
MRCVS#2	15.1	15.0	101%	90% - 110%	Yes
MRCVS#3	15.0	15.0	100%	90% - 110%	Yes
MRCVS#4	15.0	15.0	100%	90% - 110%	Yes
LCS	19.9	20.0	99.6%	90% - 110%	Yes
LCSD	19.8	20.0	98.9%	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

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

Attention: Shawn Duffy

Sample: Two (2) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 959933

Date: October 27, 2006

Collected: October 18, 2006

Received: October 18, 2006

Prep/ Analyzed: October 18, 2006

Analytical Batch: 10AN06T

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
959933-1	SC-700B-WDR-069	13:00	12:14	mg/L	1.00	0.200	2.54
959933-2	SC-100B-WDR-069	13:00	12:26	mg/L	1.00	0.200	3.23

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	958595-1	8.04	8.05	0.0373%	≤ 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	959931-8	8.04	5.00	2.00	10.00	18.5	18.0	104%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.02	4.00	101%	90% - 110%	Yes
MRCVS#1	2.99	3.00	99.8%	90% - 110%	Yes
MRCVS#2	3.01	3.00	100%	90% - 110%	Yes
MRCVS#3	2.99	3.00	99.8%	90% - 110%	Yes
MRCVS#4	2.99	3.00	99.6%	90% - 110%	Yes
LCS	4.06	4.00	101%	90% - 110%	Yes
LCSD	4.03	4.00	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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TRUESDALE LABORATORIES, INC.
14201 Franklin Avenue, Tustin, CA 92780-7006
(714) 730-6239 FAX: (714) 730-6462
www.truesdall.com

CHAIN OF CUSTODY RECORD

[IM3] Plant-WDR-069

959933

COC Number

TURNAROUND TIME 5 Days

DATE 10-18-06 PAGE 1 OF 1

COMPANY E2	PROJECT NAME PG&E Topock	PHONE (530) 229-3303	FAX (530) 339-3303	ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER 346125/149-02-53	SAMPLERS (SIGNATURE) <i>[Signature]</i>	SAMPLE I.D. SC-700B-WDR-069	DATE 10/18/06	TIME 1300	DESCRIPTION Groundwater	CGS (218) Lab Filled	Tot Metals (200.7) Total Chromium	Specific Conductance (720.1)	PH (150.1)	TDS (160.1)	Turbidity (180.1)	NC2-N/03	FL	Rec'd 10/19/06	959933	COMMENTS
											NUMBER OF CONTAINERS										
											DU = L										
											TOTAL NUMBER OF CONTAINERS										
											TOTAL										

ALERT!!
Level in QC
RUSH!

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	RECEIVED	COOL	WARM	*F
<i>[Signature]</i>	David Chavira	OMT	10-18-06 15:30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signature (Received)	Printed Name	Company/Agency	Date/Time	CUSTODY SEALED	YES	NO	<input type="checkbox"/>
<i>[Signature]</i>	L. Shabrum	721	10/18/06 1940	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:			
<i>[Signature]</i>				Sample Conditions See Form Attached			
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time				
<i>[Signature]</i>							
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time				
<i>[Signature]</i>							

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

November 1, 2006

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

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK IM3PLANT-WDR-070 PROJECT, GROUNDWATER
MONITORING,
TLI NO.: 960134


Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-070 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, 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.

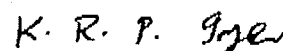
The samples were received and delivered with the chain of custody on October 25, 2006, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter it will be kept in warm storage for an additional 2 months before disposal.

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi
Manager, Analytical Services



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

TRUESDAIL LABORATORIES, Inc.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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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.: 346129.IM.02.E2

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

Laboratory No.: 960134

Date: November 1, 2006

Collected: October 25, 2006

Received: October 25, 2006

ANALYST LIST

Method	Parameter	Analyst
EPA 120.1	Specific Conductivity	Tina Acquiat
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Tina Acquiat
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Riddhi Patel
EPA 218.6	Hexavalent Chromium	Stanley Hsieh

TRUESDAIL LABORATORIES, INC.

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REPORT

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

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

Attention: Shawn Duffy

Laboratory No.: 960134

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2
Prep. Batch: 102706A

Date: November 1, 2006
Collected: October 25, 2006
Received: October 25, 2006
Prep/ Analyzed: October 27, 2006
Analytical Batch: 102706A

Investigation: **Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using 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>
960134	SC-700B-WDR-070	mg/L	EPA 200.7	10:54	1.04	0.0010	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	960134	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	960134	0.00	1.04	0.0100	0.0104	0.00771	0.0104	74.1%	70-130%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#1	0.0105	0.0100	105%	90% - 110%	Yes
ICS	0.00974	0.0100	97.4%	80% - 120%	Yes
LCS	0.00959	0.0100	95.9%	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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www.truesdail.com

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

Attention: Shawn Duffy

Laboratory No.: 960134

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 346129.IM.02.E2
P.O. No.: 346129.IM.02.E2

Date: November 1, 2006
Collected: October 25, 2006
Received: October 25, 2006
Prep/ Analyzed: October 26, 2006
Analytical Batch: 10CrH06AG

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>
960134	SC-700B-WDR-070	13:45	08:46	mg/L	5.00	0.0010	ND

QA/QC Summary

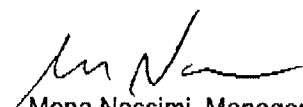
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance Limits	QC Within Control
Duplicate	960134	ND	ND	0.00%	< 20%	Yes

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	960134	0.00	1.06	0.00100	0.00106	0.00098	0.00106	92.4%	90-110%	Yes
MS	960134	0.00	5.00	0.00100	0.00500	0.00490	0.00500	98.0%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00499	0.00500	99.8%	90% - 110%	Yes
MRCVS#1	0.00995	0.0100	99.5%	95% - 105%	Yes
MRCVS#2	0.00989	0.0100	98.9%	95% - 105%	Yes
LCS	0.00498	0.00500	99.6%	90% - 110%	Yes
LCSD	0.00499	0.00500	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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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 960134

Date: November 1, 2006

Collected: October 25, 2006

Received: October 25, 2006

Prep/ Analyzed: October 26, 2006

Analytical Batch: 10TUC06V

Investigation:

Turbidity by Method EPA 180.1

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>
960134	SC-700B-WDR-070	13:45	NTU	1.00	0.100	ND

QA/QC Summary

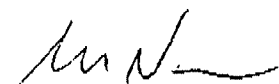
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	960112-2	1.22	1.25	2.43%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.42	8.00	92.8%	90% - 110%	Yes
LCS	7.50	8.00	93.8%	90% - 110%	Yes
LCS	7.52	8.00	94.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


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

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

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 960134

Date: November 1, 2006

Collected: October 25, 2006

Received: October 25, 2006

Prep/ Analyzed: October 26, 2006

Analytical Batch: 10PH06U

Investigation:

pH by EPA 150.1

Analytical Results pH


<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
960134	SC-700B-WDR-070	13:45	08:35	pH Units	0.0570	2.00	7.96

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	960134	7.96	7.98	0.02	+ 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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Established 1931

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.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 960134

Date: November 1, 2006

Collected: October 25, 2006

Received: October 25, 2006

Prep/ Analyzed: October 26, 2006

Analytical Batch: 10EC06V

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

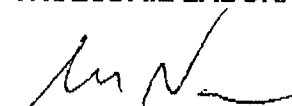
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
960134	SC-700B-WDR-070	µmhos/cm	EPA 120.1	10.0	20.0	8620

QA/QC Summary

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

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

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

Laboratory No.: 960134

Date: November 1, 2006

Collected: October 25, 2006

Received: October 25, 2006

Prep/ Analyzed: October 26, 2006

Analytical Batch: 10TDS06Q

Investigation:

Total Dissolved Solids by EPA 160.1

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>
960134	SC-700B-WDR-070	mg/L	EPA 160.1	250	3790

QA/QC Summary

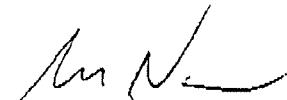
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	960134	3790	3470	4.41%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	478	500	95.6%	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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CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-070]

COC Number

TURNAROUND TIME 5 Days

DATE 10-25-06 PAGE 1 OF 1

COMPANY E2	PROJECT NAME PG&E Topock	PHONE (530) 229-3303	FAX (530) 339-3303	ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER 346129.1m.02.E2	SAMPLERS (SIGNATURE) <i>bu Dwy</i>	COMMENTS 960134 Rec'd 10/25/06 960134	NUMBER OF CONTAINERS 3	TOTAL NUMBER OF CONTAINERS 3
SAMPLE ID. SC-700B-WDR-070	DATE 10-25-06	TIME 13:45	DESCRIPTION Groundwater	CPS (2186) Lab Filled	Total Metals (200.7) Total Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Turbidity (180.1)
				X	X	X	X	X	X

ALERT!!

Level III QC

For Sample Conditions
See Form Attached

RUSH!

032

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name <i>Tom Ely</i>	Company/ Agency CNS KNIGHT	Date/ Time 10-25-06 15:30	Signature (Received)	Printed Name <i>Margaret T. L. I.</i>	Company/ Agency T. L. I.	Date/ Time 10/25/06 18:35
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:



STL

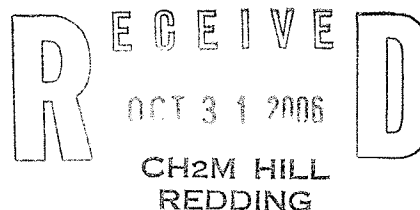
STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

October 27, 2006

STL LOT NUMBER: **E6J050265**
PO/CONTRACT: 346129.1M.02.E2

Chip Poalinelli
E2 Consulting Engineers, Inc
1900 Powell Street, Suite 250
Emeryville, CA 94608



Dear Mr. Poalinelli,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on October 5, 2006. This sample is associated with your PG&E TOPOCK GWM project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature between 2-6 degrees Celsius is within EPA acceptance criteria. The temperature(s) of the cooler received for this project can be found on the Project Receipt Checklist. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on October 16, 2006

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000214 pages.

CASE NARRATIVE

The RPD (Relative Percent Difference) for percent moisture in the sample duplicate for Prep Batch # 6279326 exceeded acceptance criteria of 10%. However, please note that the laboratory controls the percent solids and not the percent moisture in the duplicates. In this particular batch, the RPD of the percent solids is 2.5%.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,



Marisol Tabirara
Project Manager

cc: Project File

000002



E6J050265

Sewern Trent Laboratories
1721 Grand Ave, Santa Ana, CA 92705
(714)258-8610

CHAIN OF CUSTODY RECORD
[Sludge Sample-13]

COC Number

10 Days

TURNAROUND TIME

DATE 10-4-06 PAGE 1 OF 1

COMPANY	E2	DATE		TIME	DESCRIPTION	COMMENTS		
PROJECT NAME	PG&E Topock GWM							
PHONE	(530) 229-3303	FAX		(530) 339-3303				
ADDRESS	155 Grand Ave Site 1000 Oakland, CA 94612							
P.O. NUMBER	346129.1m.02.E2	TEAM		1				
SAMPLERS (SIGNATURE)								
SAMPLE I.D.	SC-Sludge-WDR-067	DATE	10-4-06	TIME	0943	DESCRIPTION	Soil	
						Metals (6010B) Title 22	X	
						Metals (7199)	X	
						Mercury (7471A)	X	
							NUMBER OF CONTAINERS	17
							TOTAL NUMBER OF CONTAINERS	17

000003

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished)		Printed Name	Company/ Agency	Date/ Time	10-4-06 10:08
Signature (Received)		Printed Name	Company/ Agency	Date/ Time	10-4-06 11:30
Signature (Relinquished)		Printed Name	Company/ Agency	Date/ Time	10-5-06 11:30
Signature (Received)		Printed Name	Company/ Agency	Date/ Time	10-5-06 11:40
Signature (Relinquished)		Printed Name	Company/ Agency	Date/ Time	10-5-06 11:40
Signature (Received)		Printed Name	Company/ Agency	Date/ Time	10-5-06 11:40
SPECIAL REQUIREMENTS:				RECEIVED COOL <input type="checkbox"/> WARM <input type="checkbox"/> °F	
				CUSTODY SEALED YES <input type="checkbox"/> NO <input type="checkbox"/>	

10-4-06

METHOD / ANALYST SUMMARY

E6J050265

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 160.3 MOD	Janice Salenga	403147
SW846 6010B	Josephine Asuncion	021088
SW846 7199	Yuriy Zakhrafov	000022
SW846 7471A	Hao Ton	000023

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

E2 Consulting Engineers, Inc

Client Sample ID: SC-SLUDGE-WDR-067

TOTAL Metals

Lot-Sample #....: E6J050265-001

Matrix.....: SO

Date Sampled....: 10/04/06 09:43 Date Received...: 10/05/06 11:40

% Moisture.....: 80

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6283335						
Arsenic	32	4.9	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AA
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Antimony	ND	29	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AC
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Barium	100	9.8	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AD
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Cadmium	7.8	2.5	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AE
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Chromium	15000	4.9	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AF
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Beryllium	ND	2.5	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AG
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Lead	ND	2.5	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AH
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Selenium	ND	2.5	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AJ
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		
Silver	ND	4.9	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AK
		Dilution Factor: 1		Analysis Time...: 15:54		Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 6284435		

(Continued on next page)

E2 Consulting Engineers, Inc

Client Sample ID: SC-SLUDGE-WDR-067

TOTAL Metals

Lot-Sample #...: E6J050265-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Cobalt	ND	25	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AL
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Copper	99	12	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AM
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Molybdenum	ND	20	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AN
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Nickel	38	20	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AP
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Thallium	ND	4.9	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AQ
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Vanadium	80	25	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AR
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Zinc	61	9.8	mg/kg	SW846 6010B	10/10-10/11/06	JFQ4L1AT
		Dilution Factor: 1		Analysis Time...: 15:54	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6284435		
Prep Batch #...	6283338					
Mercury	1.9	0.49	mg/kg	SW846 7471A	10/11/06	JFQ4L1AU
		Dilution Factor: 1		Analysis Time...: 14:42	Analyst ID.....: 000023	
		Instrument ID...: M04		MS Run #.....: 6284272		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E2 Consulting Engineers, Inc

Client Sample ID: SC-SLUDGE-WDR-067

General Chemistry

Lot-Sample #...: E6J050265-001 Work Order #...: JFQ4L Matrix.....: SO
 Date Sampled...: 10/04/06 09:43 Date Received...: 10/05/06 11:40
 % Moisture.....: 80

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	5.5	0.98	mg/kg	SW846 7199	10/12-10/13/06	6282179
				Dilution Factor: 1 Instrument ID...: W18	Analysis Time...: 09:31 MS Run #.....: 6282093	Analyst ID.....: 000022
Percent Moisture	80	0.10	%	MCAWW 160.3 MOD	10/06-10/07/06	6279326
				Dilution Factor: 1 Instrument ID...: W15	Analysis Time...: 13:30 MS Run #.....: 6279208	Analyst ID.....: 4031473

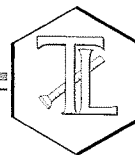
NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

October 13, 2006

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

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

Dear Mr. Duffy:

SUBJECT: CASE NARRATIVE PG&E TOPOCK PROJECT, SLUDGE SAMPLE-13,
TLI NO.: 959454

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock project, Sludge Sample-13. A summary table for this sample delivery group is included in Section 2. Complete laboratory report, 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 sample was received and delivered with the chain of custody on October 4, 2006, intact and in chilled condition. The sample 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.

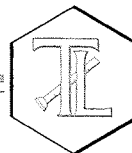
Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Manager, Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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.: 346129.IM.02.E2

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

Laboratory No.: 959454

Date: October 12, 2006

Collected: October 4, 2006

Received: October 4, 2006

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 300.0	Fluoride	Giawad Ghenniwa

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

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

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

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 346129.IM.02.E2

P.O. No.: 346129.IM.02.E2

Laboratory No.: 959454

Date: October 12, 2006

Collected: October 4, 2006

Received: October 4, 2006

Prep/ Analyzed: October 6, 2006

Analytical Batch: 10AN06G

Investigation:

Fluoride by Ion Chromatography Using EPA 300.0

Analytical Results Fluoride

<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>
959454	SC-Sludge-WDR-067	mg/kg	EPA 300.0	14:25	20.0	4.00	11.9

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration		Duplicate Concentration		Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate		959454		11.9		13.9		15.7%	≤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	959454	11.9	20.0	2.00	40.0	56.4	51.9	111%	85-115%	Yes
QC Std I.D.		Measured Concentration		Theoretical Concentration		Percent Recovery		Acceptance Limits	QC Within Control	
MRCCS		4.14		4.00		103%		90% - 110%	Yes	
MRCVS#1		3.14		3.00		105%		90% - 110%	Yes	
MRCVS#2		3.11		3.00		104%		90% - 110%	Yes	
LCS		4.16		4.00		104%		90% - 110%	Yes	
LCSD		4.08		4.00		102%		90% - 110%	Yes	

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


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 these laboratories.



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

CHAIN OF CUSTODY RECORD

[Sludge Sample-13]

COC Number

TURNAROUND TIME 10 Days

DATE 10-4-06 PAGE 1 OF 1

COMPANY E2	PROJECT NAME PG&E Topock			PHONE (530) 229-3303 FAX (530) 339-3303			ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612			P.O. NUMBER			SAMPLERS SIGNATURE 			SAMPLE I.D. SC-Sludge-WDR-067			DATE 10-4-06			TIME 0943			DESCRIPTION Soil			X			Antions (300.0) Ft			Rec'd 10/04/06 959454			Level III QC			ALERT!!			COMMENTS			NUMBER OF CONTAINERS			TOTAL NUMBER OF CONTAINERS		
---------------	-----------------------------	--	--	--	--	--	--	--	--	-------------	--	--	------------------------	--	--	----------------------------------	--	--	-----------------	--	--	--------------	--	--	---------------------	--	--	---	--	--	--------------------	--	--	--------------------------	--	--	--------------	--	--	---------	--	--	----------	--	--	----------------------	--	--	----------------------------	--	--

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL	WARM	°F
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES	NO	
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				

Appendix B
Certification Signature Authority
Delegation Email

From: Eakins, Julie/BAO
Sent: Thursday, October 12, 2006 10:46 AM
To: Meeks, Yvonne J; Curt Russell (gcr4@pge.com); Barbara Benson (BSB2@pge.com); Jayo, Juan (Law)
Cc: Johns, Mathew/DEN; Ring, George/PHX
Subject: FW: Order R7-2006-0060

I received this email from Jose Cortez that we will not need another Delegation of Authority letter for future monitoring reports submitted under Order R7-2004-0060.

Julie Eakins, PE
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
ph.510-587-7647
fax 510-622-9147

-----Original Message-----

From: Jose Cortez [mailto:jcortez@waterboards.ca.gov]
Sent: Thursday, October 12, 2006 10:41 AM
To: Eakins, Julie/BAO
Subject: Re: Order R7-2006-0060

Julie,

You will not need to submit a new Delegation of Authority for R7-2006-0060 unless the authorized person has changed.

Jose Cortez
Water Resources Control Engineer
Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260
Phone: (760) 776-8963
Fax: (760) 341-6820
email: jcortez@waterboards.ca.gov

>>> <Julie.Eakins@CH2M.com> 10/9/2006 2:53 PM >>>
Hi Jose,

This is to confirm your voice mail message from September 25, 2006 for submittal of monitoring reports for discharge from the PG&E Topock IM-3 project. As confirmed by your voice mail, the October 15, 2006 monitoring reports can be filed under the previous Order R7-2004-0103.

A copy of R7-2006-0060 (adopted September 20, 2006) has now been received, and future monitoring reports (post October 15, 2006) will be submitted under the new Order R7-2006-0060.

Attached is the Delegation of Authority for signing monitoring reports under Order R7-2004-0103. Will you require a new Delegation of Authority for monitoring reports submitted under R7-2006-0060?

Sincerely,
Julie Eakins, PE
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612
ph.510-587-7647
fax 510-622-9147