



**Pacific Gas and
Electric Company**

Curt Russell
Topock Onsite Project Manager
Environmental Affairs

Topock Compressor Station
145453 National Trails Hwy
Needles, CA 92363

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

760.326.5582
Fax: 760.326.5542
Email: gcr4@pge.com

June 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 R7-2004-0103
WDID No. 7B 36 2033 001
PG&E Topock Compressor Station, Needles, California
Interim Measure No. 3 Groundwater Treatment System
Discharge to Injection Well(s)
May 2006 Monitoring Report**

Dear Mr. Perdue:

Enclosed is the Board Order R7-2004-0103 May 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 by the Colorado River Basin Regional Water Quality Control Board (Water Board) under Board Order R7-2004-0103.

WDRs under Board Order R7-2004-0103 apply to IM No. 3 Treatment System discharge by subsurface injection wells only. In addition, the Water Board issued 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). Reporting of Board Order R7-2004-0080 and Board Order R7-2004-0100 activities are submitted under separate covers.

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

Sincerely,

Curt Russell
Topock Onsite Project Manager

Enclosures:

Board Order R7-2004-0103 May 2006 Monitoring Report for the IM No. 3 Groundwater Treatment System.

Robert Perdue
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cc: José Cortez, Water Board
Liann Chavez, Water Board
Tom Vandenberg, Water Board
Norman Shopay, DTSC

May 2006 Monitoring Report for Interim Measure No. 3 Groundwater Treatment System

**Waste Discharge Requirements
Board Order No. R7-2004-0103
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

June 15, 2006

CH2MHILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

**May 2006 Monitoring Report
Interim Measure No. 3 Groundwater Treatment System
Waste Discharge Requirements Order No. R7-2004-0103
PG&E Topock Compressor Station
Needles, California**

Prepared for
Pacific Gas and Electric Company

June 15, 2006

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

Dennis Fink

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



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Acronyms and Abbreviations

IM	Interim Measure
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
STL	Severn Trent 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. R7-2004-0103 authorizes PG&E to inject treated groundwater into injection wells located on San Bernardino County Assessor's Parcel No. 650-151-06. 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 May 2006.

In addition to Board Order No. R7-2004-0103, 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 the WDRs. Full-time operation of the treatment system commenced in August 2005.

During May 2006, groundwater was pumped from extraction wells TW-3D and PE-1. The target groundwater extraction system pump rate was 135 gallons per minute during May 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.
- **Sludge:** Treatment byproduct that is transported offsite for disposal 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 May 2006 treatment system monthly average flow rates 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).

The IM No. 3 facility also treated approximately 31,765 gallons of water generated from monitoring well development and aquifer testing during May 2006. Treatment of this water at the IM No. 3 facility was approved by the Water Board on January 26, 2006, according to the conditions of Board Order No. R7-2004-0103.

Periods of planned and unplanned extraction system downtime during May 2006 are summarized below. The times shown are in Pacific Standard Time to be consistent with other data collected (e.g., water level data) at the site.

- **May 9, 2006 (unplanned):** The IM No. 3 extraction well system was shut down from 12:21 a.m. until 12:55 a.m. due to a Needles power failure at the site. Another shut down occurred from 10:23 a.m. to 10:33 a.m. to return operations from generator power to Needles power. Extraction system downtime was 44 minutes.
- **May 21, 2006 (unplanned):** The IM No. 3 extraction well system was shut down from 11:47 a.m. to 1:17 p.m. to switch between microfilter module banks. Another shutdown occurred from 3:04 p.m. to 5:01 p.m. due to power failure at the site. Extraction system downtime was 3 hours 27 minutes.
- **May 22, 2006 (unplanned):** The IM No. 3 extraction well system was shut down from 2:40 a.m. to 5:16 a.m. due to power-supply issues at the site. Another shut down occurred from 6:41 p.m. to 8:21 p.m. due to a flow control valve restricting flow to Injection Well IW-02 during system modifications. Extraction system downtime was 4 hours 16 minutes.
- **May 24, 2006 (planned):** The IM No. 3 extraction well system was shut down from 6:21 a.m. until 12:42 a.m. to install a rental reverse osmosis unit. The rental unit will provide temporary service as required while upgrades in piping are completed on the permanent reverse osmosis unit over the next 2 to 3 months. Extraction system downtime was 6 hours 21 minutes.
- **May 25, 2006 (planned):** The IM No. 3 extraction well system was shut down from 9:30 a.m. until 11:46 a.m. to return service to the permanent reverse osmosis unit after operating the temporary reverse osmosis unit for approximately 24 hours. Extraction system downtime was 2 hours 16 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. MBC 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 procedures and schedules approved in the *Groundwater Compliance Monitoring Plan for Interim Measures No. 3 Injection Area* (CH2M HILL 2005). Quarterly groundwater monitoring analytical results for the injection area 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 laboratory(ies) 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 May 3, 2006.
- The effluent was sampled weekly; sample dates May 3, 11, 17, and 24, 2006. The June 1, 2006 sample event results will be presented in the June 2006 Monitoring Report.
- The reverse osmosis concentrate was sampled monthly; sample date May 3, 2006.
- The sludge was sampled monthly; sample date May 3, 2006. WDR requirements state that sludge is to be sampled each time it is transported offsite unless sludge is transported offsite more frequently than monthly, in which case, the sampling frequency shall be monthly.
- The sludge is required to have an aquatic bioassay test quarterly; the 2nd Quarter 2006 aquatic bioassay test was conducted with a sludge sample from the April 5, 2006 sampling event and was presented in the April 2006 Monitoring Report submitted May 15, 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.

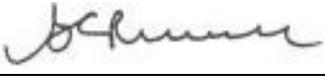
In addition, no incidents of non-compliance were identified during the reporting period, and no events that caused an immediate or potential threat to human health or the environment, or new releases of hazardous waste or hazardous waste constituents, or new solid waste management units were identified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

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: June 15, 2006

Tables

TABLE 1
 Sampling Station Descriptions
May 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:

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

TABLE 2
 Flow Monitoring Results
 May 2006 Report for Interim Measure No. 3 Groundwater Treatment System

Parameter	System Influent ^{a,b}	System Effluent ^{c,b}	Reverse Osmosis Concentrate ^{d,b}
Average Monthly Flowrate (gpm)	130.0	118.9	10.8

Notes:

gpm: gallons per minute.

^aExtraction wells TW-3D and PE-1 were operated during May 2006.

^bThe difference between influent flow rate and the sum of the effluent and reverse osmosis concentrate flow rates is approximately 0.2 percent, which is within the range of acceptable accuracy considering the margin of error for onsite instrumentation, the water contained within the sludge, and differences in the inventory of water in the treatment system between the beginning and end of the reporting period.

^cAll effluent was discharged into injection wells IW-02 during May 2006.

^dReverse Osmosis Concentrate flow meter reading from FIT-701.

TABLE 3

Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)
 Influent Monitoring Results ^a
 May 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																						
Sample ID	Analytes Units ^b Date	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	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L
SC-100B-WDR-045	5/3/2006	5860	ND (0.1)	10400	7.42	2040	2050	ND (52)	ND (0.5)	ND (3.0)	ND (5.0)	ND (300)	1.31	31.8	2.73	6.60	ND (500)	11.9	ND (20)	3.37	0.0068	702	ND (300)	ND (20)

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

^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

TABLE 4
 Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)
 Effluent Monitoring Results^a
 May 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

WDRs Effluent Limits ^b	Ave. Monthly	NA	NA	NA	6.5-8.4	25	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Max Daily	NA	NA	NA	6.5-8.4	50	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Required Sampling Frequency	Weekly							Monthly																
Sample ID	Analytes Units ^c Date	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	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L
SC-700B-WDR-045	5/3/2006	4370	ND (0.1)	7900	8.15	1.60	ND (1.0)	ND (52)	ND (0.5)	ND (3.0)	ND (5.0)	ND (300)	1.17	27.0	1.98	5.70	ND (500)	7.50	ND (20)	2.66	0.0229	497	ND (300)	ND (20)
SC-700B-WDR-046	5/11/2006	4510	ND (0.1)	7670	8.08	ND (1.0)	ND (1.0)J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SC-700B-WDR-047	5/17/2006	4510	ND (0.1)	7800	7.87	ND (1.0)	ND (1.0)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SC-700B-WDR-048	5/24/2006	4300	ND (0.1)	8240	8.03	ND (1.0)	ND (1.0)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

^a 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)
^b In addition to the listed effluent limits, the WDRs state that the effluent shall not contain heavy metals, chemicals, pesticides or other constituents in concentrations toxic to human health.
^c Units reported in this table are those units required in the WDRs

TABLE 5

Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)
 Reverse Osmosis Concentrate Results ^a
 May 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Monthly																					
Sample ID	Date	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
SC-701-WDR-045	5/3/2006	25100	41000	7.96	ND (0.001)	ND (0.002)	ND (0.01)	ND (0.01)	ND (0.3)	ND (0.0052)	ND (0.0052)	ND (0.01)	0.0372	1.04	0.0382	0.0599	ND (0.001)	ND (0.02)	0.0464	ND (0.01)	ND (0.0052)	0.048	ND (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

^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. R7-2004-0103 Waste Discharge Requirements (WDRs)
 Sludge Monitoring Results^a
 May 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency			Monthly ^c																		
Sample ID	Date	Analytes Units ^b	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			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
SC-SLUDGE-WDR-045	5/3/2006		18000	180	ND (41)	16.0	120	ND (3.4)	ND (3.4)	ND (34)	110	---	ND (3.4)	47.0	2.60	45.0	ND (3.4)	ND (6.9)	9.60	97.0	83.0
SC-Sludge-WDR-045a	5/4/2006		---	---	---	---	---	---	---	---	---	13.2	---	---	---	---	---	---	---	---	---

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 kilogram
 mg/L = milligrams per liter

^a Sampling Location for all Sludge Samples is the Sludge Collection Tanks (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. R7-2004-0103 Waste Discharge Requirements (WDRs)

Monitoring Information

May 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-045	Gary Sibble	5/3/2006	1:38:00 PM	TLI	EPA 120.1	SC	5/4/2006	Emilia Haley
					TLI	EPA 150.1	PH	5/4/2006	Emilia Haley
					TLI	EPA 160.1	TDS	5/4/2006	Emilia Haley
					TLI	EPA 180.1	TRB	5/4/2006	Gautam Savani
					TLI	EPA 200.7	NI	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	ZN	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	MN	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	FE	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	CRT	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	BA	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	B	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	AL	5/9/2006	Riddhi Patel
					TLI	EPA 200.8	CU	5/6/2006	Victoria Than
					TLI	EPA 200.8	MO	5/6/2006	Victoria Than
					TLI	EPA 200.8	PB	5/6/2006	Victoria Than
					TLI	EPA 200.8	SB	5/6/2006	Victoria Than
					TLI	EPA 200.8	AS	5/6/2006	Victoria Than
					TLI	EPA 300.0	SO4	5/4/2006	Vanna Kho
					TLI	EPA 300.0	FL	5/4/2006	Vanna Kho
					TLI	EPA 300.0	NO3N	5/4/2006	Vanna Kho
TLI	EPA 350.2	NH3N	5/9/2006	Jordan Stavrev					
TLI	EPA 354.1	NO2N	5/4/2006	Emilia Haley					
TLI	EPA Method 218.6	CR6	5/4/2006	Jorge Arriaga					
SC-700B	SC-700B-WDR-045	Gary Sibble	5/3/2006	1:15:00 PM	TLI	EPA 120.1	SC	5/4/2006	Emilia Haley
					TLI	EPA 150.1	PH	5/4/2006	Emilia Haley
					TLI	EPA 160.1	TDS	5/4/2006	Emilia Haley
					TLI	EPA 180.1	TRB	5/4/2006	Gautam Savani
					TLI	EPA 200.7	ZN	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	FE	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	MN	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	NI	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	AL	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	CRT	5/11/2006	Riddhi Patel
					TLI	EPA 200.7	B	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	BA	5/9/2006	Riddhi Patel
					TLI	EPA 200.8	CU	5/6/2006	Victoria Than
					TLI	EPA 200.8	MO	5/6/2006	Victoria Than

TABLE 7

Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)

Monitoring Information

May 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-045	Gary Sibble	5/3/2006	1:15:00 PM	TLI	EPA 200.8	PB	5/6/2006	Victoria Than
					TLI	EPA 200.8	SB	5/6/2006	Victoria Than
					TLI	EPA 200.8	AS	5/6/2006	Victoria Than
					TLI	EPA 300.0	FL	5/4/2006	Vanna Kho
					TLI	EPA 300.0	SO4	5/4/2006	Vanna Kho
					TLI	EPA 300.0	NO3N	5/4/2006	Vanna Kho
					TLI	EPA 350.2	NH3N	5/9/2006	Jordan Stavrev
					TLI	EPA 354.1	NO2N	5/4/2006	Emilia Haley
					TLI	EPA Method 218.6	CR6	5/4/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-046	Gary Sibble	5/11/2006	2:23:00 PM	TLI	EPA 120.1	SC	5/15/2006	Emilia Haley
					TLI	EPA 150.1	PH	5/12/2006	Jordan Stavrev
					TLI	EPA 160.1	TDS	5/15/2006	Emilia Haley
					TLI	EPA 180.1	TRB	5/12/2006	Gautam Savani
					TLI	EPA 200.7	CRT	5/15/2006	Victoria Than-Thiem
					TLI	EPA Method 218.6	CR6	5/12/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-047	Chris Knight	5/17/2006	3:10:00 PM	TLI	EPA 120.1	SC	5/18/2006	Tina Acquiat
					TLI	EPA 150.1	PH	5/18/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	5/18/2006	Emilia Haley
					TLI	EPA 180.1	TRB	5/18/2006	Gautam Savani
					TLI	EPA 200.7	CRT	5/25/2006	Victoria Than-Thiem
					TLI	EPA Method 218.6	CR6	5/18/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-048	David Chaney	5/24/2006	3:50:00 PM	TLI	EPA 120.1	SC	5/25/2006	Tina Acquiat
					TLI	EPA 150.1	PH	5/25/2006	Tina Acquiat
					TLI	EPA 160.1	TDS	5/25/2006	Emilia Haley
					TLI	EPA 180.1	TRB	5/25/2006	Gautam Savani
					TLI	EPA 200.7	CRT	6/1/2006	Victoria Than-Thiem
					TLI	EPA Method 218.6	CR6	5/25/2006	Jorge Arriaga
SC-701	SC-701-WDR-045	Gary Sibble	5/3/2006	1:31:00 PM	TLI	EPA 120.1	SC	5/4/2006	Emilia Haley
					TLI	EPA 150.1	PH	5/4/2006	Emilia Haley
					TLI	EPA 160.1	TDS	5/4/2006	Emilia Haley
					TLI	EPA 200.7	ZN	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	CRT	5/11/2006	Riddhi Patel
					TLI	EPA 200.7	NI	5/9/2006	Riddhi Patel
					TLI	EPA 200.7	BA	5/9/2006	Riddhi Patel
					TLI	EPA 200.8	SE	5/6/2006	Victoria Than
					TLI	EPA 200.8	AG	5/6/2006	Victoria Than

TABLE 7

Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)

Monitoring Information

May 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-045	Gary Sibble	5/3/2006	1:31:00 PM	TLI	EPA 200.8	TL	5/6/2006	Victoria Than
					TLI	EPA 200.8	SB	5/6/2006	Victoria Than
					TLI	EPA 200.8	PB	5/6/2006	Victoria Than
					TLI	EPA 200.8	MO	5/6/2006	Victoria Than
					TLI	EPA 200.8	AS	5/6/2006	Victoria Than
					TLI	EPA 200.8	CO	5/6/2006	Victoria Than
					TLI	EPA 200.8	CD	5/6/2006	Victoria Than
					TLI	EPA 200.8	V	5/6/2006	Victoria Than
					TLI	EPA 200.8	BE	5/6/2006	Victoria Than
					TLI	EPA 200.8	CU	5/6/2006	Victoria Than
					TLI	EPA 245.1	HG	5/5/2006	Aksiniya Dimitrov
					TLI	EPA 300.0	FL	5/4/2006	Vanna Kho
					TLI	EPA Method 218.6	CR6	5/4/2006	Jorge Arriaga
SC-Sludge	SC-SLUDGE-WDR-045	Rick Alland	5/3/2006	1:45:00 PM	STL	EPA 160.3	MOIST	5/9/2006	Florian Zimmermann
					STL	EPA 6010B	MO	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	ZN	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	TL	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	SE	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	SB	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	PB	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	NI	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	V	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	CU	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	CRT	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	CO	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	CD	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	BE	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	BA	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	AG	5/9/2006	Josephine Asuncion
					STL	EPA 6010B	AS	5/9/2006	Josephine Asuncion
					STL	EPA 7471A	HG	5/9/2006	Hao Ton
STL	SW 7199	CR6	5/5/2006	Yuriy Zakhrabov					
SC-Sludge	SC-Sludge-WDR-045a	Gary Sibble	5/4/2006	1:25:00 PM	TLI	EPA 300.0	FL	5/6/2006	Vanna Kho

TABLE 7

Board Order No. R7-2004-0103 Waste Discharge Requirements (WDRs)

Monitoring Information

May 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

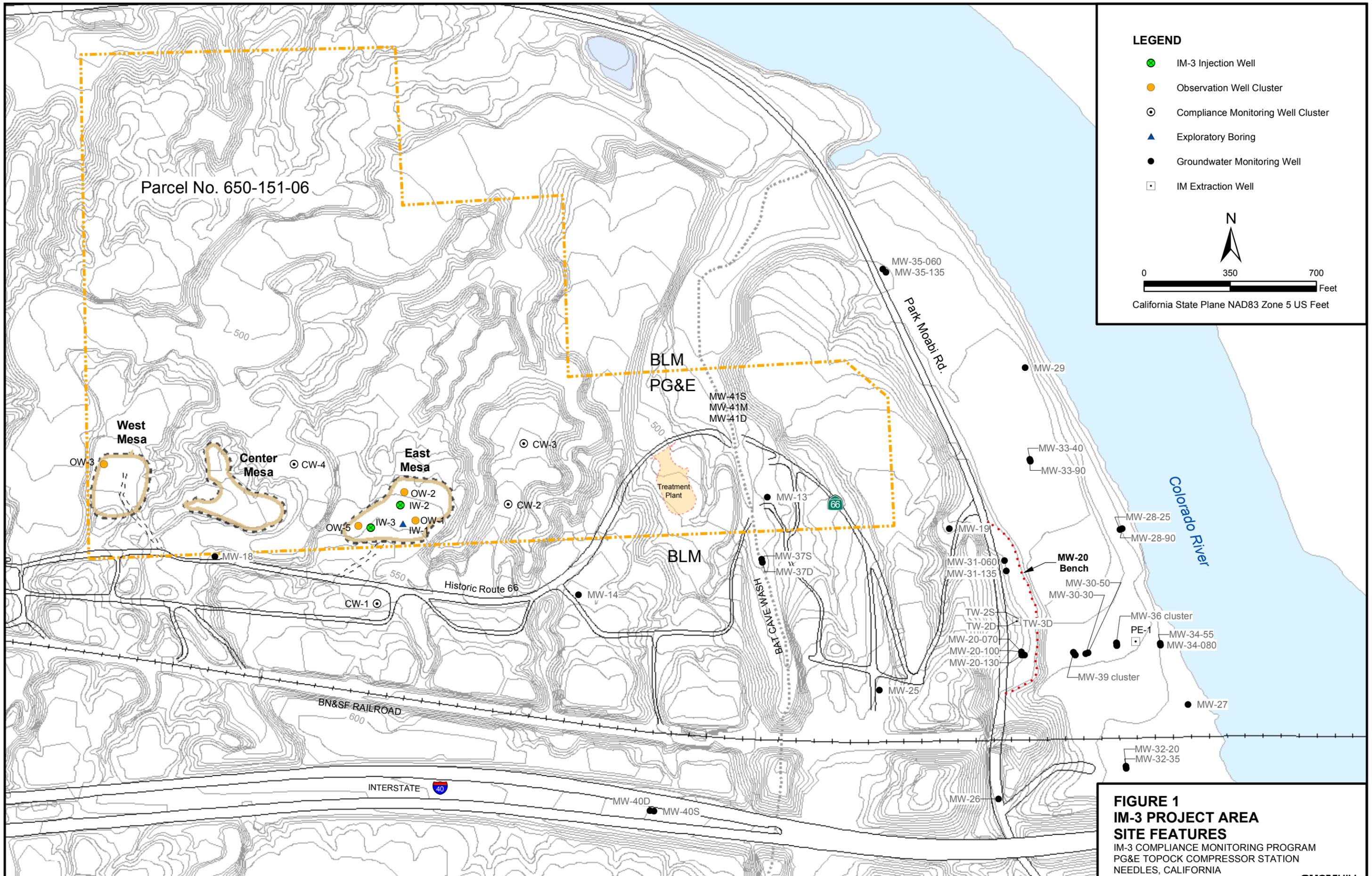
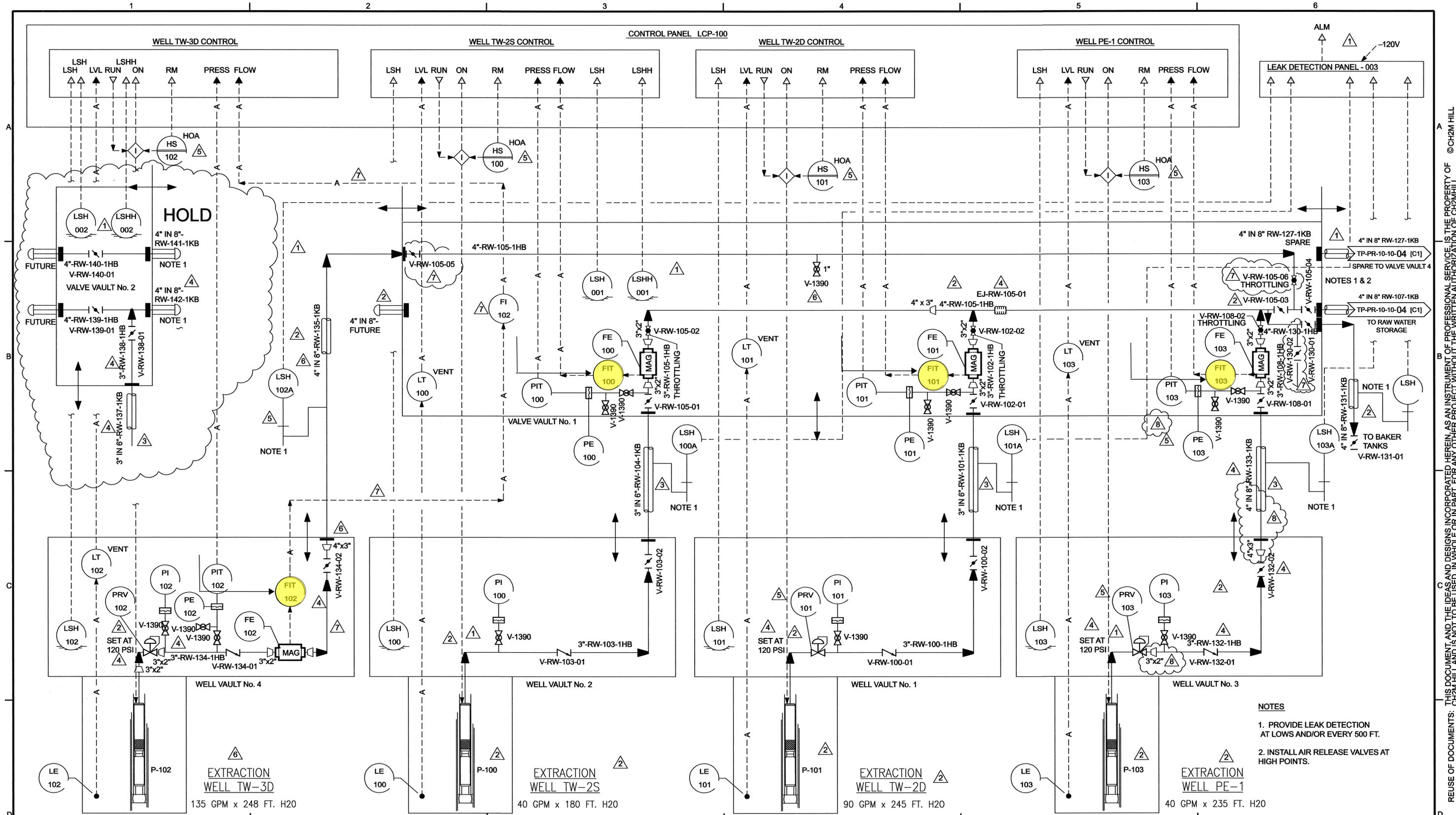


FIGURE 1
IM-3 PROJECT AREA
SITE FEATURES
 IM-3 COMPLIANCE MONITORING PROGRAM
 PG&E TOPOCK COMPRESSOR STATION
 NEEDLES, CALIFORNIA



- 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	ISSUED
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL	---	ELECTRICAL	---	PRELIMINARY
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL	---	INST & CONTROL	---	FOR REVIEW AND APPROVAL
3	03/16/05	DELETED NOTES. APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL	---	ARCHITECTURAL	---	APPROVED FOR CONSTRUCTION
4	07/20/05	RELIEF VALVE SETTINGS, WELL PE-1 LINE TAGS, HOLDS REMOVED. APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS	---	ENVIRONMENTAL	---	REVISED & APPROVED FOR CONSTRUCTION
5	09/27/05	FINAL RECORD ISSUE	EFC	AJ	PIPING	SDH	GEN. ARRANG.	---	INTRA CD.
6	10/06/05	REVISED FINAL RECORD - ADDED TW-3D	EFC	AJ	---	---	---	---	---
7	10/19/05	REVISED AS NOTED	EFC	AJ	---	---	---	---	---

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

PROCESS AND INSTRUMENTATION DIAGRAM
SHEET 03
EXTRACTION WELLS
PE-1, TW-2D, TW-2S AND TW-3D

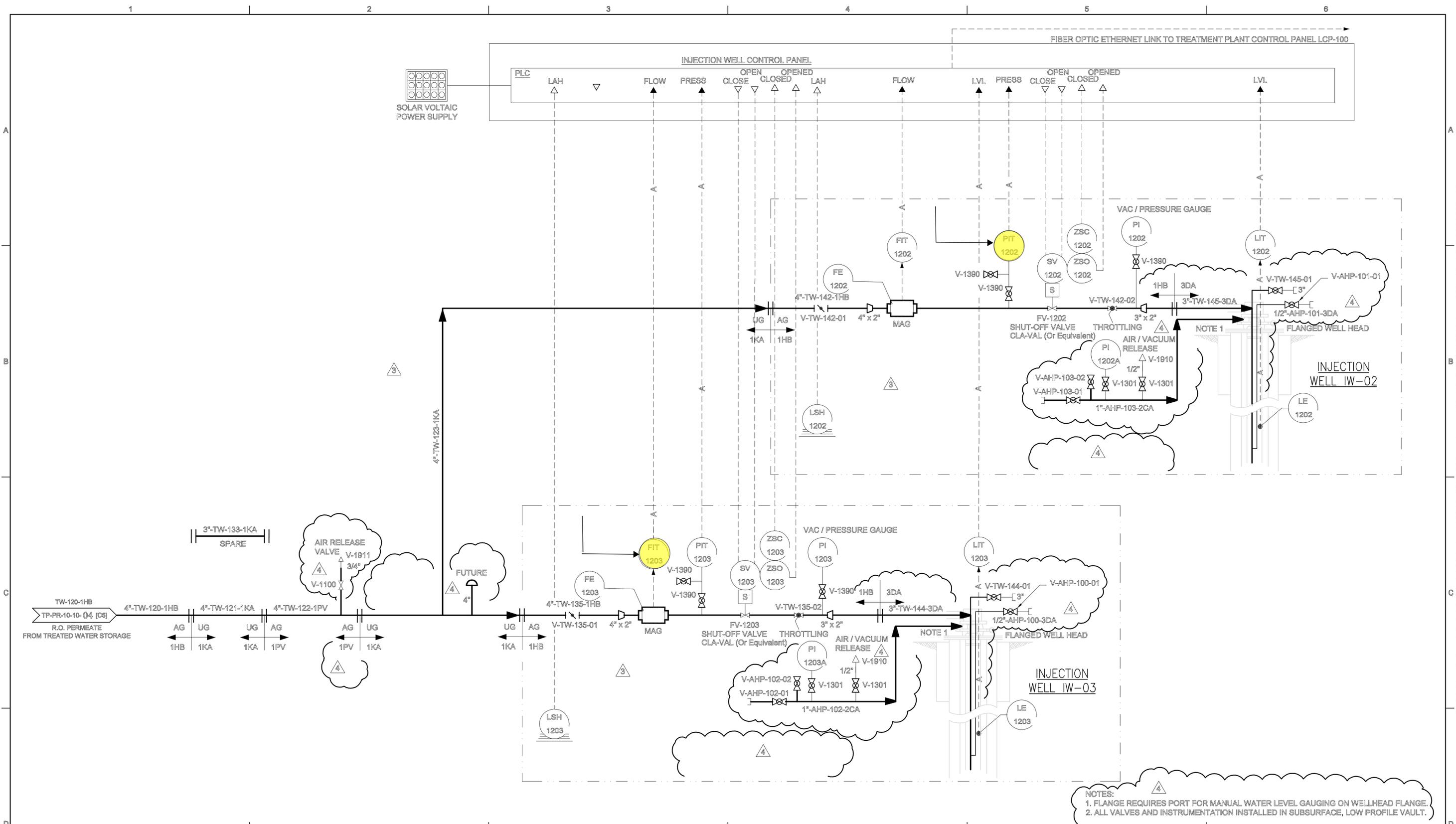
SCALE NONE

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DWG. NO. TP-PR-10-10-03 REV. 8



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NOTES:
 1. FLANGE REQUIRES PORT FOR MANUAL WATER LEVEL GAUGING ON WELLHEAD FLANGE.
 2. ALL VALVES AND INSTRUMENTATION INSTALLED IN SUBSURFACE, LOW PROFILE VAULT.

NO.	DATE	REVISION	BY	CHK	DISCIPLINE	APPROVAL	REV 4	DATE 03/10/05	PRINT DISTRIBUTION	STATUS				
										ISSUED	REV	DATE	SDE	PEM
A	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	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD					
4	03/10/05	REMOVED HOLD AND APPROVED FOR CONSTRUCTION	EFC	AJ	PIPING		GEN. ARRANG.		INTRA CO.					

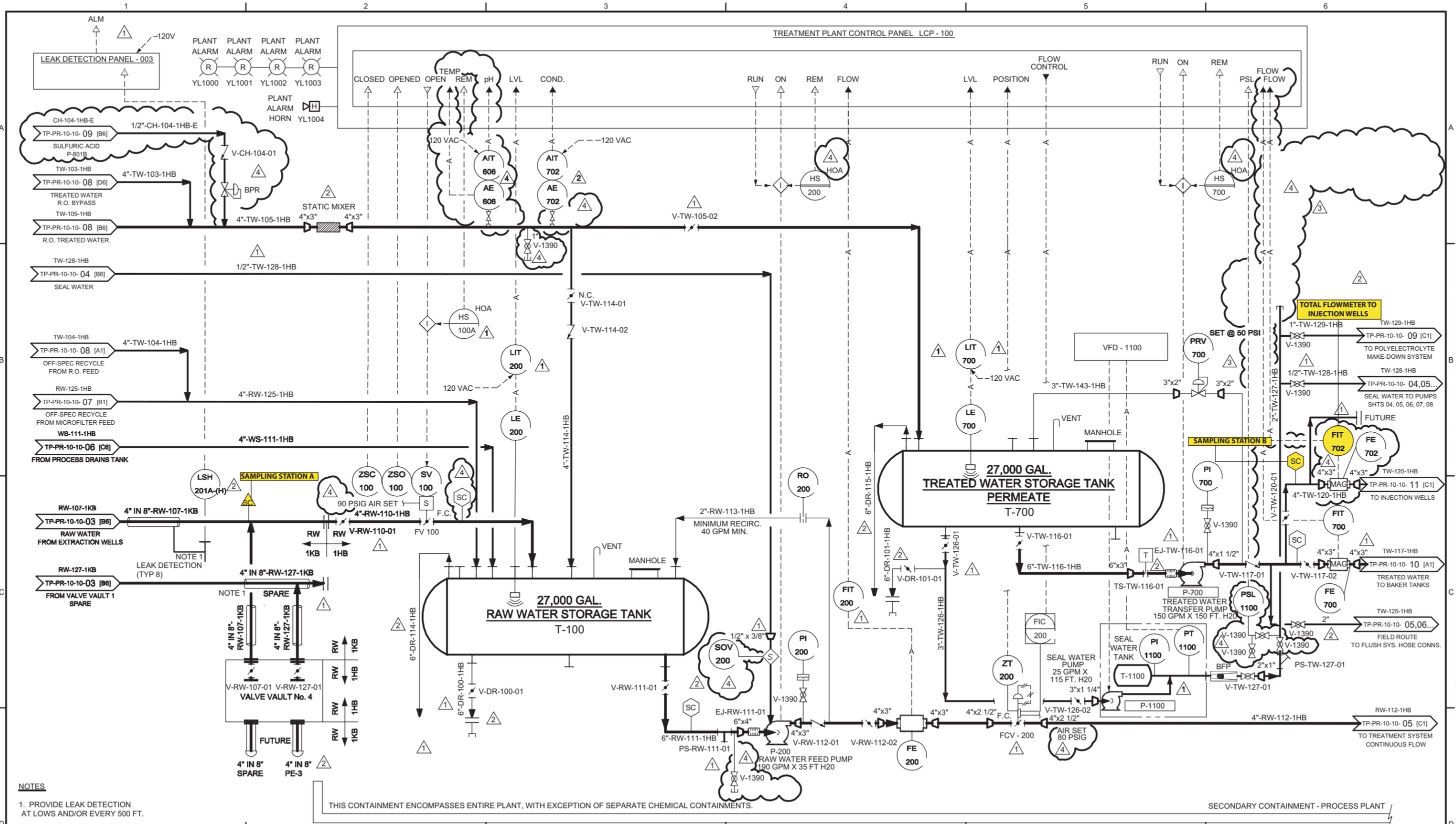
SCALE NONE

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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

DWG. NO. TP-PR-10-10-11 REV. 4



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

NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 4	DATE 09/21/05	PRINT DISTRIBUTION	STATUS					
						DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE
0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE	PEM
0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS	PRELIMINARY				
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	FOR REVIEW AND APPROVAL	D	07/28/04		
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
3	02/14/05	ADDED RECIRC. LINE AND PRV VALVE TO T-700 - APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD	REVISED & APPROVED FOR CONSTRUCTION	4	/ /		
4	09/21/05	REVISED PER AS-BUILT CONDITIONS	EFC	AJ	PIPING		GEN. ARRANG.		INTRA CO.					

SCALE NONE

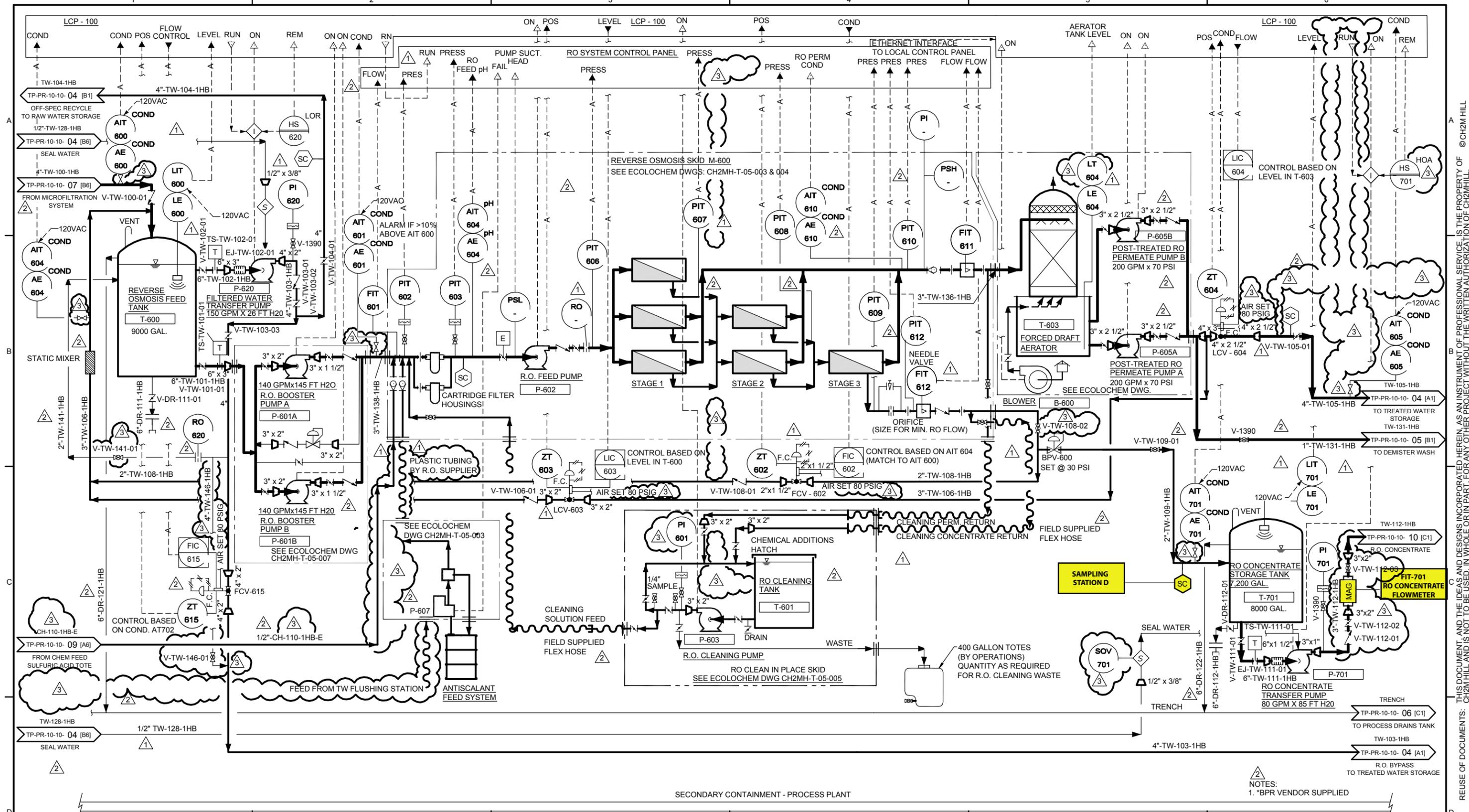
CH2MHILL

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

DWG. NO. TP-PR-10-10-04 REV. 4

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SECONDARY CONTAINMENT - PROCESS PLANT

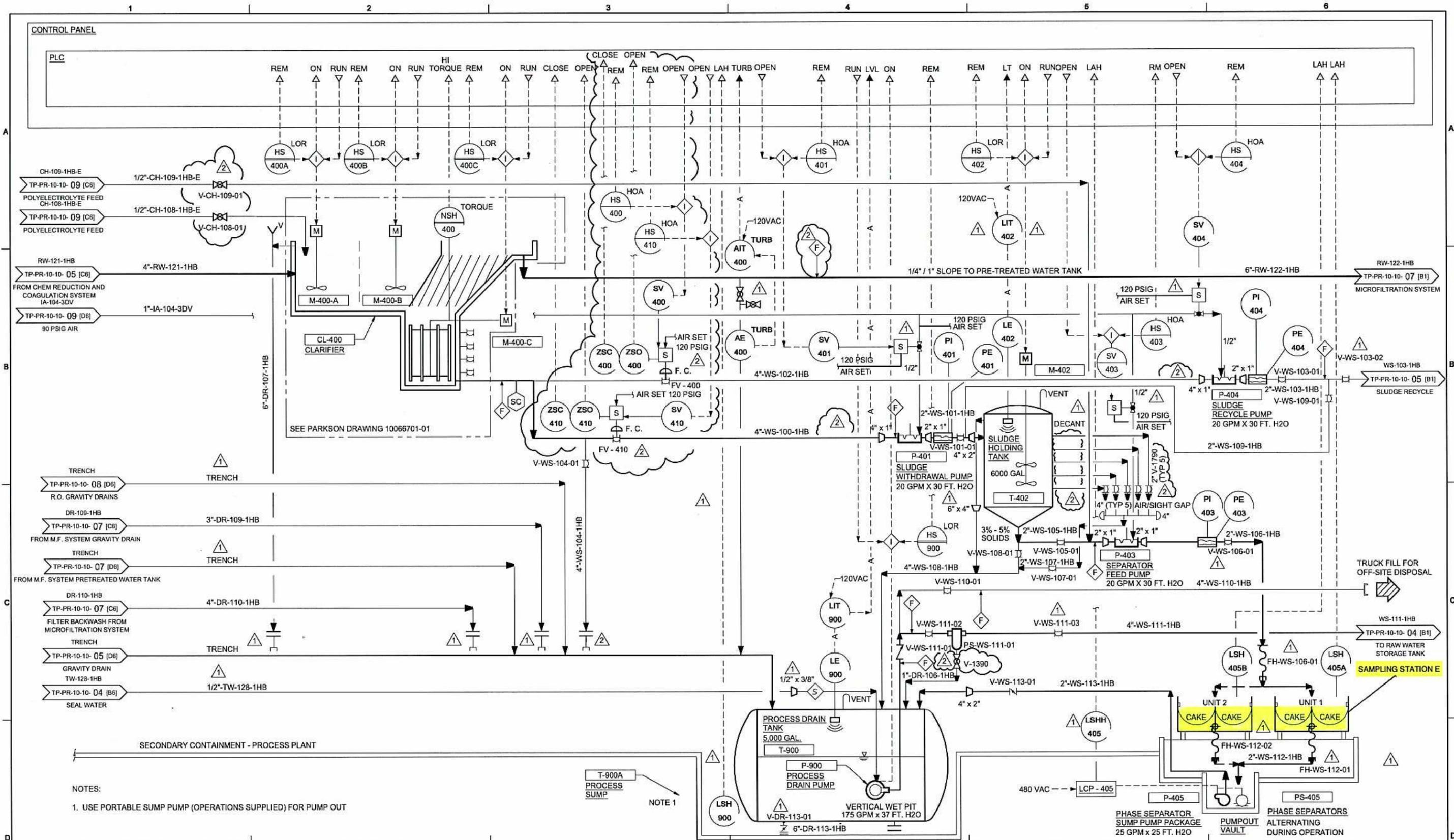
NOTES:
1. *BPR VENDOR SUPPLIED

NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 3	DATE 09/21/05	PRINT DISTRIBUTION	STATUS					
									ISSUED	REV	DATE	SDE	PEM	
0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED				
0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS	PRELIMINARY				
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	FOR REVIEW AND APPROVAL	D	07/28/04		
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
3	09/21/05	REVISED PER AS-BUILT CONDITIONS	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD	REVISED & APPROVED FOR CONSTRUCTION	3	/ /		
					PIPING		GEN. ARRANG.		INTRA CO.					

SCALE NONE

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 08
REVERSE OSMOSIS SYSTEM
DWG. NO. TP-PR-10-10-08
REV. 3



NOTES:
 1. USE PORTABLE SUMP PUMP (OPERATIONS SUPPLIED) FOR PUMP OUT

NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 2	DATE 01/23/05	PRINT DISTRIBUTION	STATUS				
									REV	DATE	SDE	PEM	
0	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED				
0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL	ELECTRICAL	REVIEWED	DATE	PRELIMINARY				
1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL	INST & CONTROL	REVIEWED	DATE	FOR REVIEW AND APPROVAL	D	07/28/04		
2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL	ARCHITECTURAL	REVIEWED	DATE	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
					PROCESS	ENVIRONMENTAL	REVIEWED	DATE	REVISED & APPROVED FOR CONSTRUCTION	2	01/23/05		
					PIPING	GEN. ARRANG.	REVIEWED	DATE					

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

PROCESS AND INSTRUMENTATION DIAGRAM
 SHEET 06
 CLARIFICATION AND
 SLUDGE REMOVAL

SCALE NONE

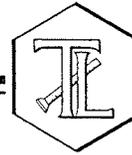
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DWG. NO. TP-PR-10-10-06 REV. 2

Appendix A
Laboratory Analytical Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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

RECEIVED
JUN 06 2006
CH2M HILL
REDDING

CH2M HILL PG&E Topock Project

Laboratory Number: 954494

Received: May 3, 2006

IM3Plant-WDR-045

Project No.: 334168.IM.04.00

P.O. No.: 911248



Prepared for:

CH2M HILL
Attn: Mark Cichy
2525 Airpark Dr.
Redding, CA 96001

Prepared by:

TRUESDAIL LABORATORIES, INC.
TUSTIN, CALIFORNIA

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 954494

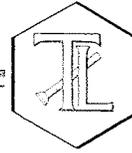
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

June 2, 2006

CH2M HILL
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-045 PROJECT, GROUNDWATER
MONITORING,
TLI No.: 954494

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-045 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 May 3, 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.

During Hexavalent Chromium analysis by EPA 218.6, samples 954494-2 and 954494-3 were analyzed directly at 5X dilution in order to keep the holding time. The historical data for those samples indicated that higher dilution was required. The straight run for the sample 954494-2 was run past holding time, with the result out of the retention time window to verify the need for further dilution.

During Anion analysis by EPA 300.0, due to instrument problems, we were unable to close the batch with PQL and DI water. All matrix spikes and dilutions for samples 954494-1 through 3 passed. The batch was closed with MRCVS and Calibration blank.

The result for Lead duplicate exceeded the acceptance limit by 0.5% and was overlooked by analyst due to rounding error in Excel spreadsheet.

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

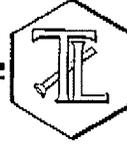
K.R.P. Iyer
Quality Assurance/Quality Control Officer

CC: Mr. Mark Cichy, CH2M HILL Redding CA

002

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

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

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

ANALYST LIST

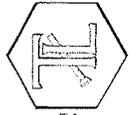
EPA 120.1	Specific Conductivity	Emilia Haley
EPA 150.1	pH	Emilia Haley
EPA 160.1	Total Dissolved Solids	Emilia Haley
EPA 180.1	Turbidity	Gautam Savani
EPA 300.0	Anions	Vanna Kho
EPA 350.2	Ammonia	Jordan Stavrev
EPA 354.1	Nitrite as N	Emilia Haley
EPA 200.7	Metals by ICP	Riddhi Patel
EPA 200.8	Metals by ICP/MS	Victoria Than
EPA 245.1	Mercury	Aksiniya Dimitrov
EPA 218.6	Hexavalent Chromium	Jorge Arriaga

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy

Laboratory No.: 954494
Date Received: May 3, 2006

Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

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
			Units	μ mhos/cm	mg/L	NTU	mg/L
954494-1	SC-100B-WDR-045	13:38	7.42	10400	5860	ND	2.05
954494-2	SC-700B-WDR-045	13:15	8.15	7900	4370	ND	ND
954494-3	SC-701-WDR-045	13:31	7.96	41000	25100	---	ND

Lab I.D.	Sample I.D.	Sample Time	EPA 300.0 Fluoride	EPA 300.0 Sulfate	EPA 300.0 Nitrate as N	EPA 354.1 Nitrite as N	EPA 350.2 Ammonia
			mg/L	mg/L	mg/L	mg/L	mg/L
954494-1	SC-100B-WDR-045	13:38	2.72	702	3.37	0.0068	ND
954494-2	SC-700B-WDR-045	13:15	1.98	497	2.66	0.0229	ND
954494-3	SC-701-WDR-045	13:31	1.04	---	---	---	---

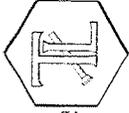
ND: Non Detected (below reporting limit)
mg/L: Milligrams per liter.

Note: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppm will have two (2) significant figures.
Result 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

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

Client: CH2M HILL

155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954494

Date Received: May 3, 2006

Analytical Results Summary

METALS ANALYSIS: Total Metal Analyses as Requested

Lab I.D.	Sample ID	Date of Analysis:	Time Coll.	Aluminum EPA 200.7 mg/L	Antimony EPA 200.8 mg/L	Arsenic EPA 200.8 mg/L	Barium EPA 200.7 mg/L	Beryllium EPA 200.8 mg/L	Cadmium EPA 200.8 mg/L	Chromium EPA 200.7 mg/L	Cobalt EPA 200.8 mg/L	Copper EPA 200.8 mg/L	Lead EPA 200.8 mg/L
954494-1	SC-100B-WDR-045	13:38		ND	ND	ND	ND	---	---	2.04	---	0.0318	0.0066
954494-2	SC-700B-WDR-045	13:15		ND	ND	ND	ND	---	---	0.0016	---	0.0270	0.0057
954494-3	SC-701-WDR-045	13:31		---	ND	ND	ND	ND	ND	ND	ND	0.0372	0.0382

Lab I.D.	Sample ID	Date of Analysis:	Time Coll.	Manganese EPA 200.7 mg/L	Mercury EPA 245.1 mg/L	Molybdenum EPA 200.8 mg/L	Nickel EPA 200.7 mg/L	Selenium EPA 200.8 mg/L	Silver EPA 200.8 mg/L	Thallium EPA 200.8 mg/L	Vanadium EPA 200.8 mg/L	Zinc EPA 200.7 mg/L
954494-1	SC-100B-WDR-045	13:38		ND	---	0.0119	ND	---	---	---	---	ND
954494-2	SC-700B-WDR-045	13:15		ND	---	0.0075	ND	---	---	---	---	ND
954494-3	SC-701-WDR-045	13:31		---	ND	0.0599	ND	0.0464	ND	ND	0.0480	ND

Lab I.D.	Sample ID	Date of Analysis:	Time Coll.	Boron EPA 200.7 mg/L	Iron EPA 200.7 mg/L
954494-1	SC-100B-WDR-045	13:38		1.310	ND
954494-2	SC-700B-WDR-045	13:15		1.17	ND
954494-3	SC-701-WDR-045	13:31		---	---

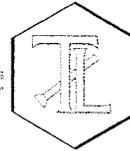
NOTES:

ND: Not detected, or below limit of detection

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Section 3.0

Final Reports



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

REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Prep. Batch: 05CrH06F

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05CrH06F

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
954494-1	SC-100B-WDR-045	13:38	13:08 ✓	mg/L	200	0.0400	2.05
954494-2	SC-700B-WDR-045	13:15	12:31 ✓	mg/L	5.00	0.0010	ND
954494-3	SC-701-WDR-045	13:31	12:49 ✓	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	954489-1	0.0082	0.0082	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	954494-1	2.05	200	0.0200	4.00	6.14	6.05000	102%	90-110%	Yes
MS	954494-2	0.00	5.00	0.00100	0.00500	0.00521	0.00500	104%	90-110%	Yes
MS	954494-3	0.00188	5.00	0.00100	0.00500	0.00678	0.00688	98.0%	90-110%	Yes
MS	954494-3	0.00188	10.0	0.00100	0.0100	0.0117	0.0119	98.2%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00491	0.00500	98.2%	90% - 110%	Yes
MRCVS#1	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#2	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#3	0.0100	0.0100	100%	95% - 105%	Yes
MRCVS#4	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#5	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#6	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#7	0.0101	0.0100	101%	95% - 105%	Yes
LCS	0.00484	0.00500	96.8%	90% - 110%	Yes
LCSD	0.00494	0.00500	98.8%	90% - 110%	Yes

* - Actual reading at 10X

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

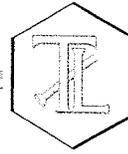
Mona Nassimi, Manager
Analytical Services

007

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: CH2M HILL
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Oakland, CA 94612

REPORT

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

Attention: Shawn Duffy

Laboratory No.: 954494

Sample: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: May 26, 2006
Collected: May 3, 2006
Received: May 3, 2006
Prep/ Analyzed: May 4, 2006
Analytical Batch: 05PH06I

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>
954494-1	SC-100B-WDR-045	09:24	pH Units	0.0570	2.00	7.42
954494-2	SC-700B-WDR-045	09:26	pH Units	0.0570	2.00	8.15
954494-3	SC-701-WDR-045	09:28	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	954494-3	7.96	7.97	0.01	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.04	7.00	0.04	+ 0.100 Units	Yes
LCS #1	7.06	7.00	0.06	+ 0.100 Units	Yes
LCS #2	7.01	7.00	0.01	+ 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

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REPORT

Attention: Shawn Duffy

Laboratory No.: 954494

Sample: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: May 26, 2006
Collected: May 3, 2006
Received: May 3, 2006
Prep/ Analyzed: May 4, 2006
Analytical Batch: 05EC06F

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>
954494-1	SC-100B-WDR-045	µmhos/cm	EPA 120.1	10.0	20.0	10400
954494-2	SC-700B-WDR-045	µmhos/cm	EPA 120.1	10.0	20.0	7900
954494-3	SC-701-WDR-045	µmhos/cm	EPA 120.1	10.0	20.0	41000

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954492-3	7190	7180	0.14%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	669	706	94.8%	90% - 110%	Yes
CVS#1	930	994	93.6%	90% - 110%	Yes
CVS#2	928	994	93.4%	90% - 110%	Yes
LCS	665	706	94.2%	90% - 110%	Yes
LCSD	668	706	94.6%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

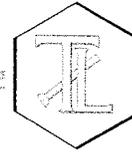

Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 954494

Sample: Three (3) Groundwater Samples

Date: May 26, 2006

Project Name: PG&E Topock Project

Collected: May 3, 2006

Project No.: 334168.IM.04.00

Received: May 3, 2006

P.O. No.: 911248

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05TDS06C

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>
954494-1	SC-100B-WDR-045	mg/L	EPA 160.1	312	5860
954494-2	SC-700B-WDR-045	mg/L	EPA 160.1	250	4370
954494-3	SC-701-WDR-045	mg/L	EPA 160.1	1250	25100

QA/QC Summary

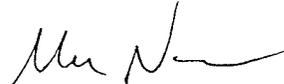
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	954494-2	4370	4330	0.46%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	502	500	100.4%	90% - 110%	Yes
LCS 2	517	500	103.4%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

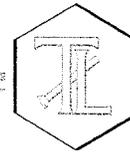

Mona Nassimi, Manager
Analytical Services

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Laboratory No.: 954494

Sample: Three (3) Groundwater Samples

Date: May 26, 2006

Project Name: PG&E Topock Project

Collected: May 3, 2006

Project No.: 334168.IM.04.00

Received: May 3, 2006

P.O. No.: 911248

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05TUC06F

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>
954494-1	SC-100B-WDR-045	13:38	NTU	1.00	0.100	ND
954494-2	SC-700B-WDR-045	13:15	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954477-25	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.90	8.00	98.8%	90% - 110%	Yes
LCS	8.06	8.00	101%	90% - 110%	Yes
LCS	7.97	8.00	99.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

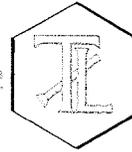
DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

05
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www.truesdail.com

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Prep/ Analyzed: May 9, 2006

Analytical Batch: 05NH306A

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
954494-1	SC-100B-WDR-045	13:38	EPA 350.2	mg/L	1.00	0.500	ND
954494-2	SC-700B-WDR-045	13:15	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	954577-1	0.980	1.01	3.0%	≤ 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	954577-1	0.980	1.00	20.0	20.0	21.1	21.0	101%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	9.97	10.0	99.7%	90% - 110%	Yes
LCSD	9.92	10.00	99.2%	90% - 110%	Yes

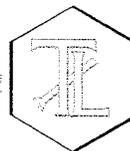
ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

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REPORT

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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Laboratory No.: 954494

Date: May 26, 2006
Collected: May 3, 2006
Received: May 3, 2006
Prep/ Analyzed: May 4, 2006
Analytical Batch: 05AN06M

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
954494-1	SC-100B-WDR-045	13:38	08:17	mg/L	1.00	0.200	2.72
954494-2	SC-700B-WDR-045	13:15	08:28	mg/L	1.00	0.200	1.98
954494-3	SC-701-WDR-045	13:31	08:39	mg/L	1.00	0.200	1.04

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954494-2	1.98	1.98	0.00%	≤ 20%	Yes

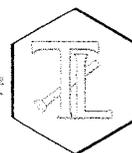
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	954494-2	1.98	1.00	2.00	2.00	3.94	3.98	98.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.11	4.00	103%	90% - 110%	Yes
MRCVS#1	3.16	3.00	105%	90% - 110%	Yes
LCS	4.11	4.00	103%	90% - 110%	Yes
LCSD	4.12	4.00	103%	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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155 Grand Ave. Suite 1000
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Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05AN06M

Investigation: Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
954494-1	SC-100B-WDR-045	13:38	09:09	mg/L	50.0	25.0	702
954494-2	SC-700B-WDR-045	13:15	09:20	mg/L	50.0	25.0	497

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954494-2	497	500	0.60%	≤ 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	954494-2	497	50.0	10.0	500	1020	997	105%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	20.0	20.0	100%	90% - 110%	Yes
MRCVS#1	15.2	15.0	101%	90% - 110%	Yes
LCS	20.1	20.0	101%	90% - 110%	Yes
LCSD	20.1	20.0	101%	90% - 110%	Yes

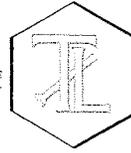
ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

014



REPORT

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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05AN06M

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
954494-1	SC-100B-WDR-045	13:38	08:17	mg/L	1.00	0.200	3.37
954494-2	SC-700B-WDR-045	13:15	08:28	mg/L	1.00	0.200	2.66

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954494-2	2.66	2.67	0.38%	≤ 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	954494-2	2.66	1.00	2.00	2.00	4.66	4.66	100%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	3.98	4.00	99.5%	90% - 110%	Yes
MRCVS#1	3.02	3.00	101%	90% - 110%	Yes
LCS	3.99	4.00	99.8%	90% - 110%	Yes
LCSD	3.99	4.00	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

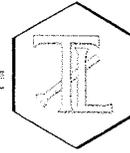
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954494

Date: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Prep/ Analyzed: May 4, 2006

Analytical Batch: 05NO206B

Investigation:

Nitrite as N by Method EPA 354.1

Analytical Results for Nitrite as N

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
954494-1	SC-100B-WDR-045	13:38	11:07	mg/L	1.00	0.0050	0.0068
954494-2	SC-700B-WDR-045	13:15	11:08	mg/L	1.00	0.0050	0.0229

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954494-2	0.0229	0.0226	1.32%	≤ 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	954494-2	0.0229	1.00	0.100	0.100	0.127	0.123	104%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.102	0.100	102%	90% - 110%	Yes
MRCVS#1	0.103	0.100	103%	90% - 110%	Yes
LCS	0.199	0.200	100%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

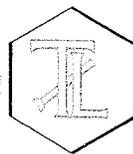

Mona Nassimi, Manager
Analytical Services



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REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

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

Attention: Shawn Duffy
Sample: Three (3) Groundwater Samples

Laboratory No.: 954494

Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: May 26, 2006
Date Revised: May 9, 2006
Collected: May 3, 2006
Received: May 3, 2006
Prep/ Analyzed: May 9, 2006
Analytical Batch: 04NO206D

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
954494-1	SC-100B-WDR-045	13:38	9:36	mg/L	1.00	0.0050	0.0179

QA/QC Summary

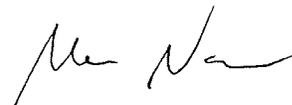
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	953517-1	0.0179	0.0173	3.4%	< 20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	953517-1	0.0179	1.00	0.100	0.100	0.117	0.118	99.1%	75-125%	Yes
MSD	953517-1	0.0179	1.00	0.100	0.100	0.114	0.118	96.1%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0993	0.100	99.3%	90% - 110%	Yes
MRCVS#1	0.0959	0.100	95.9%	90% - 110%	Yes
LCS	0.202	0.200	101%	90% - 110%	Yes
LCSD	0.200	0.200	100%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

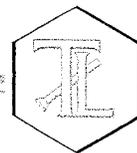

Mona Nassimi, Manager
Analytical Services

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Samples: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

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.: 954494

Reported: May 26, 2006

Collected: May 3, 2006

Received: May 3, 2006

Analyzed: 5/6-11/2006

Analytical Results

SAMPLE ID: SC-100B-WDR-045 **Time Collected:** 13:38 **LAB ID:** 954494-1

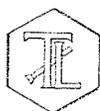
Parameter	Method	Reported			RL	Batch	Date	Time
		Value	DF	Units			Analyzed	Analyzed
Aluminum	EPA 200.7	ND	1.04	mg/L	0.0520	050906A	05/09/06	11:24
Antimony	EPA 200.8	ND	2.08	mg/L	0.0030	050606A	05/06/06	12:36
Arsenic	EPA 200.8	ND	2.08	mg/L	0.0050	050606A	05/06/06	12:36
Barium	EPA 200.7	ND	1.04	mg/L	0.300	050906A	05/09/06	11:24
Chromium	EPA 200.7	2.04	1.04	mg/L	0.0104	050906A	05/09/06	11:24
Copper	EPA 200.8	0.0318	2.08	mg/L	0.0100	050606A	05/06/06	12:36
Lead	EPA 200.8	0.0066	2.08	mg/L	0.0020	050606A	05/06/06	12:36
Manganese	EPA 200.7	ND	1.04	mg/L	0.500	050906A	05/09/06	11:24
Molybdenum	EPA 200.8	0.0119	2.08	mg/L	0.0050	050606A	05/06/06	12:36
Nickel	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:24
Zinc	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:24
Boron	EPA 200.7	1.31	1.04	mg/L	0.200	050906A	05/09/06	11:24
Iron	EPA 200.7	ND	1.04	mg/L	0.300	050906A	05/09/06	11:24

SAMPLE ID: SC-700B-WDR-045 **Time Collected:** 13:15 **LAB ID:** 954494-2

Parameter	Method	Reported			RL	Batch	Date	Time
		Value	DF	Units			Analyzed	Analyzed
Aluminum	EPA 200.7	ND	1.04	mg/L	0.0520	050906A	05/09/06	11:36
Antimony	EPA 200.8	ND	2.08	mg/L	0.0030	050606A	05/06/06	12:42
Arsenic	EPA 200.8	ND	2.08	mg/L	0.0050	050606A	05/06/06	12:42
Barium	EPA 200.7	ND	1.04	mg/L	0.300	050906A	05/09/06	11:36
Chromium	EPA 200.7	0.0016	1.04	mg/L	0.0010	051106A	05/11/06	12:09
Copper	EPA 200.8	0.0270	2.08	mg/L	0.0100	050606A	05/06/06	12:42
Lead	EPA 200.8	0.0057	2.08	mg/L	0.0020	050606A	05/06/06	12:42
Manganese	EPA 200.7	ND	1.04	mg/L	0.500	050906A	05/09/06	11:36
Molybdenum	EPA 200.8	0.0075	2.08	mg/L	0.0050	050606A	05/06/06	12:42
Nickel	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:36
Zinc	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:36
Boron	EPA 200.7	1.17	1.04	mg/L	0.200	050906A	05/09/06	11:36
Iron	EPA 200.7	ND	1.04	mg/L	0.300	050906A	05/09/06	11:36

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TRUESDAIL LABORATORIES, INC.

Report Continued

SAMPLE ID: SC-701-WDR-045		Time Collected: 13:31		LAB ID: 954494-3				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Antimony	EPA 200.8	ND	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Arsenic	EPA 200.8	ND	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Barium	EPA 200.7	ND	1.04	mg/L	0.300	050906A	05/09/06	11:40
Beryllium	EPA 200.8	ND	10.4	mg/L	0.0052	050606A	05/06/06	12:55
Cadmium	EPA 200.8	ND	10.4	mg/L	0.0052	050606A	05/06/06	12:55
Chromium	EPA 200.7	ND	1.04	mg/L	0.0010	051106A	05/11/06	12:13
Cobalt	EPA 200.8	ND	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Copper	EPA 200.8	0.0372	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Lead	EPA 200.8	0.0382	10.4	mg/L	0.0052	050606A	05/06/06	12:55
Mercury	EPA 245.1	ND	5.00	mg/L	0.0010	050506A	05/05/06	NA
Molybdenum	EPA 200.8	0.0599	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Nickel	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:40
Selenium	EPA 200.8	0.0464	10.4	mg/L	0.0208	050606A	05/06/06	12:55
Silver	EPA 200.8	ND	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Thallium	EPA 200.8	ND	10.4	mg/L	0.0052	050606A	05/06/06	12:55
Vanadium	EPA 200.8	0.0480	10.4	mg/L	0.0104	050606A	05/06/06	12:55
Zinc	EPA 200.7	ND	1.04	mg/L	0.0200	050906A	05/09/06	11:40

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

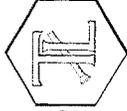

Mona Nassimi, Manager
Analytical Services

05/10

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy
Samples: Three (3) Groundwater Samples
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Laboratory No.: 954494
Reported: May 26, 2006
Collected: May 3, 2006
Received: May 3, 2006

Quality Control/Quality Assurance Report

Parameter	DIGESTED BLANK				IPC		LFB					
	Method	Batch	Units	LRB	RL	Observed Value	TRUE Value	Control Limits	Observed Value	TRUE Value	% Rec	Control Limits %
Mercury	EPA 245.1	050506A	mg/L	ND	0.00020	0.00103	0.00100	95-105%	0.00101	0.00100	101%	85-115%

SAMPLE DUPLICATES

Parameter	Method	Units	LCS Obs.	LCS Theo.	% Rec.	Control Limits	SAMPLE ID	SAMPLE RESULT	DUP RESULT	% RPD	Precision	
											Obs.	Control Limits %
Mercury	EPA 245.1	mg/L	0.00105	0.00100	105%	90-110%	954494-3	ND	ND	0.00%	≤20	≤20

MATRIX SPIKE

Sample ID	Parameter	Method	Units	mg/L	Sample Result	DF	Spike Level	Spike Level	Total Amt. of Spike	Theo. Value	MS Obs.	% Rec.	Control Limits %	Accuracy
954494-3	Mercury	EPA 245.1	mg/L	0.0010	0.00	5.00	0.00100	0.00500	0.00500	0.00500	0.0053	106%	75-125%	75-125%

MRCCS

Parameter	Method	Batch	Units	mg/L	Blank	LCS Obs.	LCS Theo.	% Rec.	Control Limits	Observed Value	TRUE Value	% Rec.	Control Limits %	Accuracy
Chromium	EPA 200.7	051106A	mg/L	0.0100	ND	0.0102	0.0100	102%	95-105%	0.0106	0.0100	106%	90-110%	90-110%

BLANK

Parameter	Method	Units	mg/L	Observed Value	Control Limits	SAMPLE ID	SAMPLE RESULT	DUP RESULT	% RPD	Precision
Chromium	EPA 200.7	mg/L	0.0104	0.0100	80-120%	954593-1	0.0088	0.0083	5.85%	≤20

LABORATORY CONTROL SAMPLES

Parameter	Method	Units	mg/L	Obs.	LCS Theo.	% Rec.	Control Limits	SAMPLE ID	SAMPLE RESULT	DUP RESULT	% RPD	Precision
Chromium	EPA 200.7	mg/L	0.0100	0.0100	104%	80-120%	954593-1	0.0088	0.0083	5.85%	5.85%	≤20

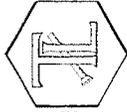
MATRIX SPIKE

Sample ID	Parameter	Method	Units	mg/L	Sample Result	DF	Spike Level	Spike Level	Total Amt. of Spike	Theo. Value	MS Obs.	% Rec.	Control Limits %	Accuracy
954544-4	Chromium	EPA 200.7	mg/L	0.0093	1.04	1.04	0.0100	0.0104	0.0104	0.0197	0.0197	100%	70-130%	70-130%

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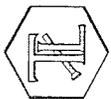
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Parameter	Method	Batch	Units	BLANK			MRCCS			MRCVS			
				Blank	RI	Observed Value	TRUE Value	% Rec	Control Limits	Observed Value	TRUE Value	% Rec	Control Limits
Aluminum	EPA 200.7	050906A	mg/L	ND	0.0500	4.94	5.00	98.8%	95-105%	4.79	5.00	95.8%	90-110%
Antimony	EPA 200.8	050606A	mg/L	ND	0.0030	0.0490	0.0500	98.0%	95-105%	0.0494	0.0500	98.8%	90-110%
Arsenic	EPA 200.8	050606A	mg/L	ND	0.0050	0.0492	0.0500	98.4%	95-105%	0.0472	0.0500	94.4%	90-110%
Barium	EPA 200.7	050906A	mg/L	ND	0.300	5.09	5.00	102%	95-105%	5.06	5.00	101%	90-110%
Beryllium	EPA 200.8	050606A	mg/L	ND	0.0010	0.0517	0.0500	103%	95-105%	0.0538	0.0500	108%	90-110%
Cadmium	EPA 200.8	050606A	mg/L	ND	0.0020	0.0490	0.0500	98.0%	95-105%	0.0496	0.0500	99.2%	90-110%
Chromium	EPA 200.7	050906A	mg/L	ND	0.0100	5.11	5.00	102%	95-105%	4.99	5.00	99.8%	90-110%
Cobalt	EPA 200.8	050606A	mg/L	ND	0.0050	0.0481	0.0500	96.2%	95-105%	0.0489	0.0500	97.8%	90-110%
Copper	EPA 200.8	050606A	mg/L	ND	0.0100	0.0497	0.0500	99.4%	95-105%	0.0513	0.0500	103%	90-110%
Lead	EPA 200.8	050606A	mg/L	ND	0.0020	0.0490	0.0500	98.0%	95-105%	0.0499	0.0500	99.8%	90-110%
Manganese	EPA 200.7	050906A	mg/L	ND	0.500	5.20	5.00	104%	95-105%	4.90	5.00	98.0%	90-110%
Molybdenum	EPA 200.8	050606A	mg/L	ND	0.0050	0.0483	0.0500	96.6%	95-105%	0.0469	0.0500	93.8%	90-110%
Nickel	EPA 200.7	050906A	mg/L	ND	0.0200	5.09	5.00	102%	95-105%	5.02	5.00	100%	90-110%
Selenium	EPA 200.8	050606A	mg/L	ND	0.0050	0.0480	0.0500	96.0%	95-105%	0.0480	0.0500	96.0%	90-110%
Silver	EPA 200.8	050606A	mg/L	ND	0.0050	0.0494	0.0500	98.8%	95-105%	0.0487	0.0500	97.4%	90-110%
Thallium	EPA 200.8	050606A	mg/L	ND	0.0010	0.0499	0.0500	99.8%	95-105%	0.0492	0.0500	98.4%	90-110%
Vanadium	EPA 200.8	050606A	mg/L	ND	0.0050	0.0476	0.0500	95.2%	95-105%	0.0498	0.0500	99.6%	90-110%
Zinc	EPA 200.7	050906A	mg/L	ND	0.0200	5.15	5.00	103%	95-105%	5.03	5.00	101%	90-110%
Boron	EPA 200.7	050906A	mg/L	ND	0.200	5.13	5.00	103%	95-105%	4.62	5.00	92.4%	90-110%
Iron	EPA 200.7	050906A	mg/L	ND	0.300	5.14	5.00	103%	95-105%	4.98	5.00	99.6%	90-110%

60
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TRUESDAIL LABORATORIES, INC.

Report Continued

LABORATORY CONTROL SAMPLES

SAMPLE DUPLICATES

Parameter	Method	Units	LCS Obs.	LCS Theo.	% Rec.	Control Limits	SAMPLE ID	SAMPLE RESULT	DUP RESULT	% RPD	Precision Control Limits %
Aluminum	EPA 200.7	mg/L	5.04	5.00	101%	80-120%	954494-1	ND	ND	0.00%	≤20
Antimony	EPA 200.8	mg/L	0.0488	0.0500	97.6%	85-115%	954494-3	ND	ND	0.00%	≤20
Arsenic	EPA 200.8	mg/L	0.0499	0.0500	100%	90-110%	954494-3	ND	ND	0.00%	≤20
Barium	EPA 200.7	mg/L	5.15	5.00	103%	90-110%	954494-1	ND	ND	0.00%	≤20
Beryllium	EPA 200.8	mg/L	0.0516	0.0500	103%	90-110%	954494-3	ND	ND	0.00%	≤20
Cadmium	EPA 200.8	mg/L	0.0483	0.0500	96.6%	90-110%	954494-3	ND	ND	0.00%	≤20
Chromium	EPA 200.7	mg/L	5.14	5.00	103%	90-110%	954494-1	2.04	2.06	0.98%	≤20
Cobalt	EPA 200.8	mg/L	0.0484	0.0500	96.8%	90-110%	954494-3	ND	ND	0.00%	≤20
Copper	EPA 200.8	mg/L	0.0511	0.0500	102%	90-110%	954494-3	0.0372	0.0372	0.00%	≤20
Lead	EPA 200.8	mg/L	0.0480	0.0500	96.0%	90-110%	954494-3	0.0382	0.0311	20.5%	≤20
Manganese	EPA 200.7	mg/L	5.07	5.00	101%	90-110%	954494-1	ND	ND	0.00%	≤20
Molybdenum	EPA 200.8	mg/L	0.0480	0.0500	96.0%	90-110%	954494-3	0.0599	0.0678	12.4%	≤20
Nickel	EPA 200.7	mg/L	5.08	5.00	102%	90-110%	954494-1	ND	ND	0.00%	≤20
Selenium	EPA 200.8	mg/L	0.0479	0.0500	95.8%	90-110%	954494-3	0.0464	0.0461	0.65%	≤20
Silver	EPA 200.8	mg/L	0.0483	0.0500	96.6%	90-110%	954494-3	ND	ND	0.00%	≤20
Thallium	EPA 200.8	mg/L	0.0484	0.0500	96.8%	90-110%	954494-3	ND	ND	0.00%	≤20
Vanadium	EPA 200.8	mg/L	0.0482	0.0500	96.4%	90-110%	954494-3	0.0480	0.0508	5.67%	≤20
Zinc	EPA 200.7	mg/L	5.17	5.00	103%	90-110%	954494-1	ND	ND	0.00%	≤20
Boron	EPA 200.7	mg/L	5.15	5.00	103%	90-110%	954494-1	1.31	1.31	0.00%	≤20
Iron	EPA 200.7	mg/L	5.11	5.00	102%	90-110%	954494-1	ND	ND	0.00%	≤20

9
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TRUESDAIL LABORATORIES, INC.

Report Continued

MATRIX SPIKE

Sample ID	Parameter	Method	Units	Sample Result	DF	Spike Level	Total Amt. of Spike	Theo. Value	MS Obs.	% Rec.	Accuracy Control Limits %
954494-1	Aluminum	EPA 200.7	mg/L	0.00	1.04	2.50	2.60	2.60	2.85	110%	70-130%
954494-3	Antimony	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.576	111%	70-130%
954494-3	Arsenic	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.613	118%	70-130%
954494-1	Barium	EPA 200.7	mg/L	0.00	1.04	2.50	2.60	2.60	2.69	103%	70-130%
954494-3	Beryllium	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.534	103%	70-130%
954494-3	Cadmium	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.534	103%	70-130%
954544-4	Chromium	EPA 200.7	mg/L	2.04	1.04	2.50	2.60	4.64	4.62	99.2%	70-130%
954494-3	Cobalt	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.499	96.0%	70-130%
954494-3	Copper	EPA 200.8	mg/L	0.0372	10.4	0.0500	0.520	0.557	0.544	97.5%	70-130%
954494-3	Lead	EPA 200.8	mg/L	0.0382	10.4	0.0500	0.520	0.558	0.504	89.6%	70-130%
954494-1	Manganese	EPA 200.7	mg/L	0.00	1.04	2.50	2.60	2.60	2.58	99.2%	70-130%
954494-3	Molybdenum	EPA 200.8	mg/L	0.0599	10.4	0.0500	0.520	0.580	0.633	110%	70-130%
954494-1	Nickel	EPA 200.7	mg/L	0.00	1.04	2.50	2.60	2.60	2.52	96.9%	70-130%
954494-3	Selenium	EPA 200.8	mg/L	0.0464	10.4	0.0500	0.520	0.566	0.631	112%	70-130%
954494-3	Silver	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.433	83.3%	70-130%
954494-3	Thallium	EPA 200.8	mg/L	0.00	10.4	0.0500	0.520	0.520	0.484	93.1%	70-130%
954494-3	Vanadium	EPA 200.8	mg/L	0.0480	10.4	0.0500	0.520	0.568	0.579	102%	70-130%
954494-1	Zinc	EPA 200.7	mg/L	0.000	1.04	2.50	2.60	2.60	2.72	105%	70-130%
954494-1	Boron	EPA 200.7	mg/L	1.31	1.04	2.50	2.60	3.91	4.05	105%	70-130%
954494-1	Iron	EPA 200.7	mg/L	0.00	1.04	2.50	2.60	2.60	2.52	96.9%	70-130%

ND: Not detected, or below limit of detection.

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

CP
PS
CO

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

CHAIN OF CUSTODY RECORD

[IM3] Plant-WDR-045]

954494

COC Number

TURNAROUND TIME

DATE 5-03-06 PAGE 1 OF 1

COMPANY	CH2M HILL	PROJECT NAME	PG&E Topock	PHONE	(510) 251-2888	FAX	(510) 622-7086	ADDRESS	155 Grand Ave Ste 1000 Oakland, CA 94612	P.O. NUMBER	334168-IM.04.00	SAMPLERS (SIGNATURE)	<i>David Chen</i>			
SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (499) Lab Filtered	Total Met (604B) Title 22	Total Met (607B) Title 22	Metals (478A) Mo, Ni, Fe, Zn, Sb, As	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Anions (300) F	Anions (300) F, SO4, NO2, NO3	Ammonia (350.2)	Turbidity (180.1)	NUMBER OF CONTAINERS	COMMENTS
SC-100B-WDR-045	5-3-06	13:38	Groundwater	X	X	X	X	X	X	X	X	X	X	5	pm = 2	
SC-700B-WDR-045	5-3-06	13:15	Groundwater	X	X	X	X	X	X	X	X	X	X	5	pm = 2	
SC-701-WDR-045	5-3-06	13:31	Groundwater	X	X	X	X	X	X	X	X	X	X	5	pm = 2	
														15	TOTAL NUMBER OF CONTAINERS	

Rec'd 05/04/06
 954494

ALERT!!
 Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 14:26
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 22:40
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 22:40
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 22:40
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 22:40
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-3-06 22:40

SAMPLE CONDITIONS

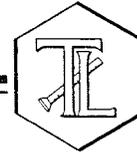
RECEIVED COOL WARM 98.2 °F
 CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:

For Sample Conditions
 See Form Attached

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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RECEIVED
JUN 05 2006
CH2M HILL
REDDING

CH2M HILL PG&E Topock Project

Laboratory Number: 954808

Received: May 11, 2006

IM3Plant-WDR-046

Project No.: 334168.IM.04.00

P.O. No.: 911248



Prepared for:

**CH2M HILL
Attn: Mark Cichy
2525 Airpark Dr.
Redding, CA 96001**

Prepared by:

**TRUESDAIL LABORATORIES, INC.
TUSTIN, CALIFORNIA**

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 954808

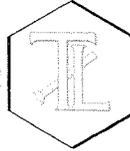
<u>ITEM</u>	<u>Section</u>
Case Narrative and Analyst List	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

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June 1, 2006

CH2M HILL
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-046 PROJECT, GROUNDWATER
MONITORING,
TLI NO.: 954808

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-046 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 May 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.

The analysis for Hexavalent Chromium was within the holding time for the straight run but the 5X dilution and the associated duplicate, matrix spike, and matrix spike duplicate were analyzed past the holding time due to the large number of samples received and dilutions required.

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.

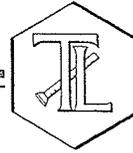
Mona Nassimi
Manager, Analytical Services

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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

Laboratory No.: 954808

Date: June 1, 2006

Collected: May 11, 2006

Received: May 11, 2006

ANALYST LIST

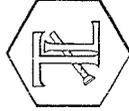
METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Emilia Haley
EPA 150.1	pH	Iordan Stavrev
EPA 160.1	Total Dissolved Solids	Emilia Haley
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Victoria Than-Thiem
EPA 218.6	Hexavalent Chromium	Jorge Arriaga

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

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Client: CH2M HILL

155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168:IM:04:00

P.O. No.: 911248

Laboratory No.: 954808

Date Received: May 11, 2006

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>EPA 200.7</u> Chromium Total mg/L	<u>EPA 218.6</u> Chromium Hexavalent mg/L	<u>EPA 180.1</u> Turbidity NTU	<u>EPA 150.1</u> pH Unit	<u>EPA 120.1</u> EC μ mhos/cm	<u>EPA 160.1</u> TDS mg/L
954808	SC-700B-WDR-046	14:23	ND	ND J	ND	8.08	7670	4510

ND: Non Detected (below reporting limit)

Note: The following "Significant Figures" rule has been applied to all results:

Results below 0.01 will have two (2) significant figures.

Result above or equal to 0.01 will have three (3) significant figures.

Quality Control data will always have three (3) significant figures.

0001

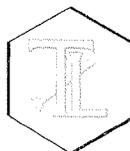
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Section 3.0

Final Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 954808

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 1, 2006
Collected: May 11, 2006
Received: May 11, 2006
Prep/ Analyzed: May 12, 2006
Analytical Batch: 05CrH06Q

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>
954808	SC-700B-WDR-046	14:23	14:44	mg/L	5.00	0.0010	ND J

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954808	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	954808	0.00	5.00	0.00100	0.00500	0.00532	0.00500	106%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00505	0.00500	101%	90% - 110%	Yes
MRCVS#1	0.0103	0.0100	103%	95% - 105%	Yes
MRCVS#2	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#3	0.0102	0.0100	102%	95% - 105%	Yes
MRCVS#4	0.0101	0.0100	101%	95% - 105%	Yes
MRCVS#5	0.0101	0.0100	101%	95% - 105%	Yes
LCS	0.00509	0.00500	102%	90% - 110%	Yes
LCSD	0.00509	0.00500	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

Respectfully submitted,

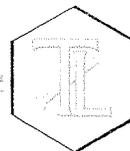
TRUESDAIL LABORATORIES, INC.

Mona Nassimi
Mona Nassimi, Manager
Analytical Services

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www.truesdail.com

REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 954808

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248
Prep. Batch: 051506A

Date: June 1, 2006
Collected: May 11, 2006
Received: May 11, 2006
Prep/ Analyzed: May 15, 2006
Analytical Batch: 051506A

Investigation: Total Dissolved Chromium by Inductively Coupled Argon Plasma Atomic Emission Spectrometer using EPA 200.7

Analytical Results Total Chromium

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
954808	SC-700B-WDR-046	mg/L	EPA 200.7	11:19	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	954782	0.00134	0.00156	15.17%	≤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	954783-1	0.00	1.04	0.0100	0.0104	0.0113	0.0104	109%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00990	0.0100	99.0%	90% - 110%	Yes
MRCVS#1	0.0104	0.0100	104%	90% - 110%	Yes
ICS	0.0109	0.0100	109%	80% - 120%	Yes
LCS	0.0101	0.0100	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

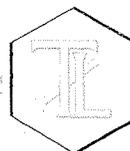
Mona Nassimi, Manager
Analytical Services

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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: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954808

Date: June 1, 2006

Collected: May 11, 2006

Received: May 11, 2006

Prep/ Analyzed: May 12, 2006

Analytical Batch: 05TUC06M

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>
954808	SC-700B-WDR-046	14:23	NTU	1.00	0.100	ND

QA/QC Summary

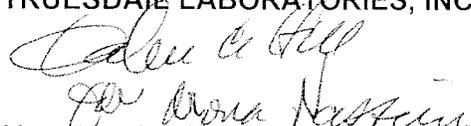
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954786	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.72	8.00	96.5%	90% - 110%	Yes
LCS	7.86	8.00	98.3%	90% - 110%	Yes
LCS	7.80	8.00	97.5%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

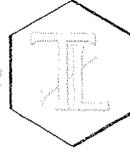
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TUSTIN, CALIFORNIA 92780-7008
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www.truesdail.com

Attention: Shawn Duffy

Laboratory No.: 954808

Date: June 1, 2006

Collected: May 11, 2006

Received: May 11, 2006

Prep/ Analyzed: May 12, 2006

Analytical Batch: 05PH06R

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Investigation:

pH by EPA 150.1

Analytical Results pH

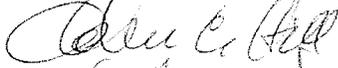
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
954808	SC-700B-WDR-046	14:23	09:35	pH Units	0.0570	2.00	8.08

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	954809-2	7.52	7.49	0.03	+ 0.100 Units	Yes

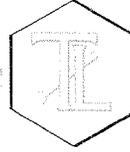
QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.02	7.00	0.02	± 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi
Mona Nassimi, Manager
Analytical Services

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Attention: Shawn Duffy

Laboratory No.: 954808

Sample: One (1) Groundwater Sample

Date: June 1, 2006

Project Name: PG&E Topock Project

Collected: May 11, 2006

Project No.: 334168.IM.04.00

Received: May 11, 2006

P.O. No.: 911248

Prep/ Analyzed: May 15, 2006

Analytical Batch: 05EC06R

Investigation:

Specific Conductivity by EPA 120.1

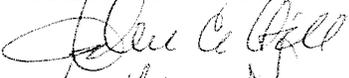
Analytical Results Specific Conductivity

<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>
954808	SC-700B-WDR-046	µmhos/cm	EPA 120.1	10.0	20.0	7670

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954845-1	10900	10800	0.92%	≤ 10%	Yes
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control	
CCS	689	706	97.6%	90% - 110%	Yes	
CVS#1	930	994	93.6%	90% - 110%	Yes	
LCS	691	706	97.9%	90% - 110%	Yes	

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.



Mona Nassimi, Manager
Analytical Services

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Laboratory No.: 954808

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Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 1, 2006
Collected: May 11, 2006
Received: May 11, 2006
Prep/ Analyzed: May 15, 2006
Analytical Batch: 05TDS06H

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>
954808	SC-700B-WDR-046	mg/L	EPA 160.1	250	4510

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	954854-1	6190	6570	2.98%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	514	500	103%	90% - 110%	Yes
LCS 2	500	500	100%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

954808

COC Number IM3Plant-WDR-046
 TURNAROUND TIME 10 Days
 DATE 5/11/06 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD [IM3Plant-WDR-046]

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



COMPANY CH2M HILL		PROJECT NAME PG&E Topock IM3		PHONE 530-229-3303 FAX 530-339-3303		ADDRESS 155 Grand Ave Ste 1000 Oakland, CA 94612		P.O. NUMBER P.O. # 911248		SAMPLERS (SIGNATURE)	
SAMPLE I.D. SC-700B-WDR-046		DATE 5/11/06		TIME 14:23		DESCRIPTION		COMMENTS		NUMBER OF CONTAINERS	
						Cr(V) (218.6) Lab Filtered					
						Title 22 Metals List (200.7, 200.8, 245.1)					
						EC (120.1), PH (150.1)					
						TDS (160.1)					
						Turb (180.0)					
						Total Metals (200.7) Cr					
						Ammonia (350.2)					
						Anions (300.0) F					
										Rec'd 05/11/06 954808	
										24 PH=2	
										4	
										TOTAL NUMBER OF CONTAINERS	

ALERT!!
Level III QC

For Sample Conditions
 See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-11-06 14:45
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-11-06 14:45
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-11-06 17:00
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	5-11-06 17:00
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	
Signature (Received)	<i>[Signature]</i>	Printed Name	Company/ Agency	Date/ Time	

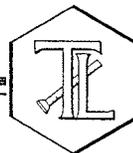
SPECIAL REQUIREMENTS:

RECEIVED COOL WARM °F _____

CUSTODY SEALED YES NO

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CH2M HILL PG&E Topock Project

Laboratory Number: 954987

Received: May 17, 2006

IM3Plant-WDR-047

Project No.: 334168.IM.04.00

P.O. No.: 911248



Prepared for:

CH2M HILL
Attn: Mark Cichy
2525 Airpark Dr.
Redding, CA 96001

Prepared by:

TRUESDAIL LABORATORIES, INC.
TUSTIN, CALIFORNIA

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 954987

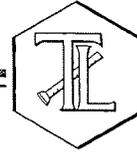
<u>ITEM</u>	<u>Section</u>
Case Narrative and Analyst List	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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June 2, 2006

CH2M HILL
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-047 PROJECT, GROUNDWATER
MONITORING,
TLI NO.: 954987

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-047 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 May 17, 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.

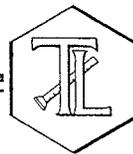
Mona Nassimi
Manager, Analytical Services

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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

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INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

Laboratory No.: 954987

Date: June 2, 2006

Collected: May 17, 2006

Received: May 17, 2006

ANALYST LIST

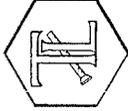
METHOD	PARAMETER	ANALYST
EPA 120.1	Specific Conductivity	Tina Acquiat
EPA 150.1	pH	Tina Acquiat
EPA 160.1	Total Dissolved Solids	Emilia Haley
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Victoria Than-Thiem
EPA 218.6	Hexavalent Chromium	Jorge Arriaga

Section 2.0

Summary Table of Final Results

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Client: CH2M HILL

155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168.IM:04.00

P.O. No.: 911248

Laboratory No.: 954987

Date Received: May 17, 2006

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>EPA 200.7</u> Chromium Total mg/L	<u>EPA 218.6</u> Chromium Hexavalent mg/L	<u>EPA 180.1</u> Turbidity NTU	<u>EPA 150.1</u> pH Unit	<u>EPA 120.1</u> EC µmhos/cm	<u>EPA 160.1</u> TDS mg/L
954987	SC-700B-WDR-047	15:10	ND	ND	ND	7.87	7800	4510

ND: Non Detected (below reporting limit)

Note: The following "Significant Figures" rule has been applied to all results:

Results below 0.01 will have two (2) significant figures.

Result above or equal to 0.01 will have three (3) significant figures.

Quality Control data will always have three (3) significant figures.

05

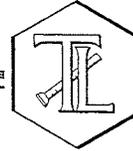
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Section 3.0

Final Reports

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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 954987

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248
Prep. Batch: 052506A

Date: June 2, 2006
Collected: May 17, 2006
Received: May 17, 2006
Prep/ Analyzed: May 25, 2006
Analytical Batch: 052506A

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>
954987	SC-700B-WDR-047	mg/L	EPA 200.7	14:40	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	954957-2	0.0273	0.0282	3.24%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	954957-3	0.00	1.04	0.0100	0.0104	0.00889	0.0104	85.5%	75-125%	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	0.00998	0.0100	99.8%	90% - 110%	Yes
ICS	0.0102	0.0100	102%	80% - 120%	Yes
LCS	0.0101	0.0100	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

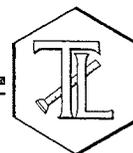
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155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 954987

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 17, 2006
Received: May 17, 2006
Prep/ Analyzed: May 18, 2006
Analytical Batch: 05CrH06V

Investigation:

Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
954987	SC-700B-WDR-047	15:10	08:52	mg/L	5.00	0.0010	ND

QA/QC Summary

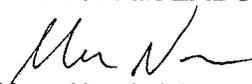
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954987	ND	ND	0.00%	< 20%	Yes

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	954987	0.00	5.00	0.00100	0.00500	0.00517	0.00500	103%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00500	0.00500	100%	90% - 110%	Yes
MRCVS#1	0.00977	0.0100	97.7%	95% - 105%	Yes
MRCVS#2	0.00982	0.0100	98.2%	95% - 105%	Yes
LCS	0.00501	0.00500	100%	90% - 110%	Yes
LCSD	0.00502	0.00500	100%	90% - 110%	Yes

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

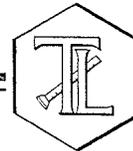
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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954987

Date: June 2, 2006

Collected: May 17, 2006

Received: May 17, 2006

Prep/ Analyzed: May 18, 2006

Analytical Batch: 05TUC06R

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>
954987	SC-700B-WDR-047	15:10	NTU	1.00	0.100	ND

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954983-30	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.75	8.00	96.9%	90% - 110%	Yes
LCS	7.70	8.00	96.3%	90% - 110%	Yes
LCS	7.53	8.00	94.1%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

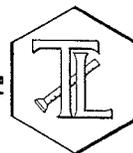
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Mona Nassimi, Manager
Analytical Services

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

REPORT

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

Attention: Shawn Duffy

Laboratory No.: 954987

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 17, 2006
Received: May 17, 2006
Prep/ Analyzed: May 18, 2006
Analytical Batch: 05PH06V

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>
954987	SC-700B-WDR-047	15:10	12:55	pH Units	0.0570	2.00	7.87

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	954986-10	8.15	8.12	0.03	+ 0.100 Units	Yes

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

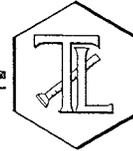
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Mona Nassimi, Manager
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Attention: Shawn Duffy
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Laboratory No.: 954987
Date: June 2, 2006
Collected: May 17, 2006
Received: May 17, 2006
Prep/ Analyzed: May 18, 2006
Analytical Batch: 05EC06T

Investigation: Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

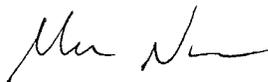
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
954987	SC-700B-WDR-047	µmhos/cm	EPA 120.1	10.0	20.0	7800

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954987	7800	7500	3.92%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	668	706	94.6%	90% - 110%	Yes
CVS#1	918	994	92.4%	90% - 110%	Yes
CVS#2	910	994	91.5%	90% - 110%	Yes
LCS	660	706	93.5%	90% - 110%	Yes
LCSD	661	706	93.6%	90% - 110%	Yes

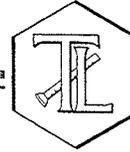
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Analytical Services

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Attention: Shawn Duffy

Laboratory No.: 954987

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 17, 2006
Received: May 17, 2006
Prep/ Analyzed: May 18, 2006
Analytical Batch: 05TDS06K

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>
954987	SC-700B-WDR-047	mg/L	EPA 160.1	250	4510

QA/QC Summary

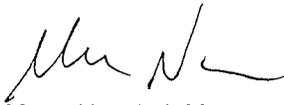
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	954987	4510	4450	0.67%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	504	500	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

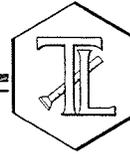
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Mona Nassimi, Manager
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CH2M HILL PG&E Topock Project

RECEIVED
JUN 07 2006
CH2M HILL
REDDING

Laboratory Number: 955233
Received: May 25, 2006

IM3Plant-WDR-048
Project No.: 334168.IM.04.00
P.O. No.: 911248



Prepared for:

CH2M HILL
Attn: Mark Cichy
2525 Airpark Dr.
Redding, CA 96001

Prepared by:

TRUESDAIL LABORATORIES, INC.
TUSTIN, CALIFORNIA

Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 955233

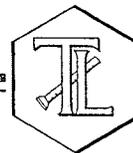
<u>ITEM</u>	<u>Section</u>
Case Narrative and Analyst List	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



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June 2, 2006

CH2M HILL
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-048 PROJECT, GROUNDWATER
MONITORING,
TLI NO.: 955233

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-048 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 May 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.

To analyze the Hexavalent Chromium sample within the holding time, due to the late arrival of the sample, the sample was analyzed at a 5X dilution based on historical data. Due to the dilution, the result is below the detection limit of 0.001 mg/L but the result of 0.00056 mg/L is reported in the QC to pass the matrix spike.

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

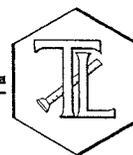
K.R.P. Iyer
Quality Assurance/Quality Control Officer

CC: Mr. Mark Cichy, CH2M HILL Redding CA

002

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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

Laboratory No.: 955233

Date: June 2, 2006

Collected: May 25, 2006

Received: May 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	Emilia Haley
EPA 180.1	Turbidity	Gautam Savani
EPA 200.7	Total Chromium	Victoria Than-Thiem
EPA 218.6	Hexavalent Chromium	Jorge Arriaga

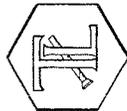
003

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

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

Client: CH2M HILL

155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 955233

Date Received: May 25, 2006

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>EPA 200.7</u> Chromium Total mg/L	<u>EPA 218.6</u> Chromium Hexavalent mg/L	<u>EPA 180.1</u> Turbidity NTU	<u>EPA 150.1</u> pH Unit	<u>EPA 120.1</u> EC μ mhos/cm	<u>EPA 160.1</u> TDS mg/L
955233	SC-700B-WDR-048	15:50	ND	ND	ND	8.03	8240	4300

ND: Non Detected (below reporting limit)

Note: The following "Significant Figures" rule has been applied to all results:

Results below 0.01 will have two (2) significant figures.

Result above or equal to 0.01 will have three (3) significant figures.

Quality Control data will always have three (3) significant figures.

005

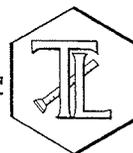
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Section 3.0

Final Reports

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: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Laboratory No.: 955233

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 24, 2006
Received: May 25, 2006
Prep/ Analyzed: May 25, 2006
Analytical Batch: 05CrH06AA

Investigation: Hexavalent Chromium by EPA 218.6

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
955233	SC-700B-WDR-048	15:50	13:47	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	955233	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	955233	0.00056	5.00	0.00100	0.00500	0.00555	0.00556	99.8%	90-110%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00510	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.00992	0.0100	99.2%	95% - 105%	Yes
MRCVS#2	0.00998	0.0100	99.8%	95% - 105%	Yes
LCS	0.00510	0.00500	102%	90% - 110%	Yes
LCSD	0.00510	0.00500	102%	90% - 110%	Yes

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

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

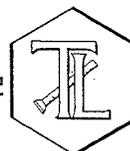
Shawn Duffy
Mona Nassimi, Manager
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REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248
Prep. Batch: 060106A

Laboratory No.: 955233

Date: June 2, 2006
Collected: May 24, 2006
Received: May 25, 2006
Prep/ Analyzed: June 1, 2006
Analytical Batch: 060106A

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>
955233	SC-700B-WDR-048	mg/L	EPA 200.7	12:00	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	955233	ND	ND	0.00%	≤20%	Yes

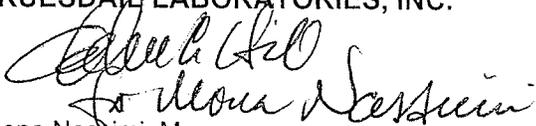
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	955233	0.00	1.04	0.0100	0.0104	0.0103	0.0104	99.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.0104	0.0100	104%	90% - 110%	Yes
MRCVS#1	0.00987	0.0100	98.7%	90% - 110%	Yes
ICS	0.0112	0.0100	112%	80% - 120%	Yes
LCS	0.0101	0.0100	101%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

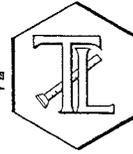

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REPORT

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TUSTIN, CALIFORNIA 92780-7008
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Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Groundwater Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 955233

Date: June 2, 2006

Collected: May 24, 2006

Received: May 25, 2006

Prep/ Analyzed: May 25, 2006

Analytical Batch: 05TUC06W

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>
955233	SC-700B-WDR-048	15:50	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	955201-35	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.40	8.00	92.5%	90% - 110%	Yes
LCS	7.41	8.00	92.6%	90% - 110%	Yes
LCS	7.38	8.00	92.3%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

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Analytical Services

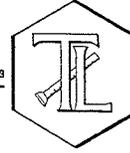
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Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Laboratory No.: 955233

Date: June 2, 2006
Collected: May 24, 2006
Received: May 25, 2006
Prep/ Analyzed: May 25, 2006
Analytical Batch: 05PH06AD

Investigation:

pH by EPA 150.1

Analytical Results pH

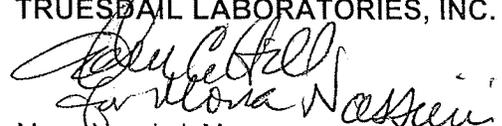
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
955233	SC-700B-WDR-048	15:50	14:45	pH Units	0.0570	2.00	8.03

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	955233	8.03	8.04	0.01	+ 0.100 Units	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	+ 0.100 Units	Yes
LCS #1	7.02	7.00	0.02	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

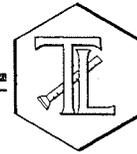

Mona Nassimi, Manager
Analytical Services

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

REPORT

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

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

Laboratory No.: 955233

Attention: Shawn Duffy
Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 24, 2006
Received: May 25, 2006
Prep/ Analyzed: May 25, 2006
Analytical Batch: 05EC06AB

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

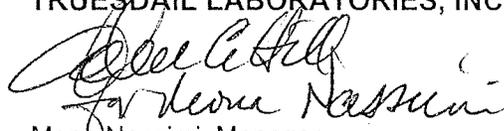
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
955233	SC-700B-WDR-048	µmhos/cm	EPA 120.1	10.0	20.0	8240

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	955233	8240	8250	0.12%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	675	706	95.6%	90% - 110%	Yes
CVS#1	924	994	93.0%	90% - 110%	Yes
LCS	674	706	95.5%	90% - 110%	Yes
LCSD	674	706	95.5%	90% - 110%	Yes

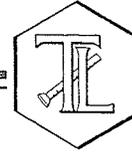
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Mona Nassimi, Manager
Analytical Services

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Oakland, CA 94612

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

Attention: Shawn Duffy

Laboratory No.: 955233

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Date: June 2, 2006
Collected: May 24, 2006
Received: May 25, 2006
Prep/ Analyzed: May 25, 2006
Analytical Batch: 05TDS06P

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>
955233	SC-700B-WDR-048	mg/L	EPA 160.1	250	4300

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	955233	4300	4350	0.58%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	520	500	104%	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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Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 954547

<u>ITEM</u>	<u>Section</u>
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Summary Table of Final Results	2.0
Final Report	3.0
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

May 11, 2006

CH2M HILL
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,
TLI No.: 954547

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock project, Sludge Sample. 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 May 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



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

Client: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: One (1) Soil Sample

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

Laboratory No.: 954547

Date: May 10, 2006

Collected: May 4, 2006

Received: May 4, 2006

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 300.0	Fluoride	Vanna Kho

Section 2.0

Summary Table of Final Results

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: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Laboratory No.: 954547

Date Received: May 4, 2006

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Time Sampled</u>	<u>EPA 300.0</u> <u>Fluoride</u> <u>mg/kg</u>
954547	SC-Sludge-WDR-045	13:25	13.2

ND: Non Detected (below reporting limit)

Note: 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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Section 3.0

Final Report

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: CH2M HILL
155 Grand Ave. Suite 1000
Oakland, CA 94612
Attention: Shawn Duffy
Sample: One (1) Soil Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248

Laboratory No.: 954547
Date: May 10, 2006
Collected: May 4, 2006
Received: May 4, 2006
Prep/ Analyzed: May 6, 2006
Analytical Batch: 05AN06G

Investigation: Fluoride by Ion Chromatography Using EPA 300.0

Analytical Results Fluoride

TLI I.D.	Field I.D.	Units	Method	Run Time	DF	RL	Results
954547	SC-Sludge-WDR-045	mg/kg	EPA 300.0	10:03	18.5	3.70	13.2

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	954547	13.2	14.2	7.30%	≤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	954547	13.2	18.5	2.00	37.0	46.9	50.2	91.1%	85-115%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.11	4.00	103%	90% - 110%	Yes
MRCVS#1	3.15	3.00	105%	90% - 110%	Yes
MRCVS#2	3.14	3.00	105%	90% - 110%	Yes
LCS	4.12	4.00	103%	90% - 110%	Yes
LCSD	4.12	4.00	103%	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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Rec'd 05/04/06
 Lab 954547
 COC Number

TURNAROUND TIME 5 Days
 DATE 5-4-06 PAGE 1 OF 1

CHAIN OF CUSTODY RECORD
 [Sludge Sample- 1]

TRUESDALE (TLI)
 Sovereign Laboratories
 1721 Grand Ave, Santa Ana, CA 92705
 (714)258-8810

954547

COMPANY	CH2M HILL
PROJECT NAME	PG&E Topock GWM
PHONE	(510) 251-2888 FAX (510) 622-7086
ADDRESS	155 Grand Ave Site 1000 Oakland, CA 94612
P.O. NUMBER	334168.IM.04.00 TEAM 1
SAMPLERS (SIGNATURE)	<i>Raymond Bill</i>
SAMPLE I.D.	DATE TIME DESCRIPTION
SC-Sludge-WDR-045	5-4-06 1325 Soil
	<input checked="" type="checkbox"/> GWS (F139) Lab Filtered <input checked="" type="checkbox"/> Form Ake (80705) Tite 22 <input checked="" type="checkbox"/> Membr (F130A) <input checked="" type="checkbox"/> F (300.0)
	NUMBER OF CONTAINERS
	1
	TOTAL NUMBER OF CONTAINERS
	1
	COMMENTS

For Sample Conditions
 See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD		SAMPLE CONDITIONS	
Signature (Relinquished)	<i>Raymond Bill</i>	RECEIVED	COOL <input type="checkbox"/> WARM <input type="checkbox"/> *F
Signature (Received)	<i>Rafael Davila</i>	CUSTODY SEALED	YES <input type="checkbox"/> NO <input type="checkbox"/>
Signature (Relinquished)		SPECIAL REQUIREMENTS:	
Signature (Received)		ALERT!!	
		Level III QC	

ANALYTICAL REPORT

PROJECT NO. 334168.IM.04.00

PG&E TOPOCK GWM

Lot #: E6E040375

Shawn Duffy

CH2M Hill Inc

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

May 11, 2006

EXECUTIVE SUMMARY - Detection Highlights

E6E040375

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SC-SLUDGE-WDR-045 05/03/06 13:45 001				
Mercury	2.6	0.69	mg/kg	SW846 7471A
Arsenic	16	6.9	mg/kg	SW846 6010B
Barium	120	14	mg/kg	SW846 6010B
Chromium	18000	6.9	mg/kg	SW846 6010B
Copper	110	17	mg/kg	SW846 6010B
Molybdenum	47	28	mg/kg	SW846 6010B
Nickel	45	28	mg/kg	SW846 6010B
Thallium	9.6	6.9	mg/kg	SW846 6010B
Vanadium	97	34	mg/kg	SW846 6010B
Zinc	83	14	mg/kg	SW846 6010B
Percent Moisture	86	0.10	%	MCAWW 160.3 MOD
Hexavalent Chromium	180	2.8	mg/kg	SW846 7199

METHODS SUMMARY

E6E040375

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Hexavalent Chromium	SW846 7199	SW846 3060A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD

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.

METHOD / ANALYST SUMMARY

E6E040375

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 160.3 MOD	FLORIAN ZIMMERMANN	000064
SW846 6010B	Josephine Asuncion	021088
SW846 7199	Yuriy Zakhrabov	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.

SAMPLE SUMMARY

E6E040375

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
H4QWC	001	SC-SLUDGE-WDR-045	05/03/06	13:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CH2M Hill Inc

Client Sample ID: SC-SLUDGE-WDR-045

TOTAL Metals

Lot-Sample #...: E6E040375-001

Matrix.....: SO

Date Sampled...: 05/03/06 13:45 Date Received...: 05/04/06 10:30

% Moisture.....: 86

PARAMETER	RESULT	REPORTING			PREPARATION-		WORK
		LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #	
Prep Batch #...: 6128612							
Arsenic	16	6.9	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AA	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Antimony	ND	41	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AC	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Barium	120	14	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AD	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Cadmium	ND	3.4	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AE	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Chromium	18000	6.9	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AF	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Beryllium	ND	3.4	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AG	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Lead	ND	3.4	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AH	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Selenium	ND	3.4	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AJ	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			
Silver	ND	6.9	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AK	
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088		
		Instrument ID..: M01		MS Run #.....: 6128353			

(Continued on next page)

CH2M Hill Inc

Client Sample ID: SC-SLUDGE-WDR-045

TOTAL Metals

Lot-Sample #...: E6E040375-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Cobalt	ND	34	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AL
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Copper	110	17	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AM
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Molybdenum	47	28	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AN
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Nickel	45	28	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AP
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Thallium	9.6	6.9	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AQ
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Vanadium	97	34	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AR
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Zinc	83	14	mg/kg	SW846 6010B	05/08-05/09/06	H4QWC1AT
		Dilution Factor: 1		Analysis Time..: 14:51	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 6128353		
Prep Batch #...: 6129179						
Mercury	2.6	0.69	mg/kg	SW846 7471A	05/09/06	H4QWC1AU
		Dilution Factor: 1		Analysis Time..: 14:00	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 6129106		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CH2M Hill Inc

Client Sample ID: SC-SLUDGE-WDR-045

General Chemistry

Lot-Sample #...: E6E040375-001 Work Order #...: H4QWC Matrix.....: SO
Date Sampled...: 05/03/06 13:45 Date Received..: 05/04/06 10:30
% Moisture.....: 86

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Hexavalent Chromium	180	2.8	mg/kg	SW846 7199	05/05/06	6125079
			Dilution Factor: 2	Analysis Time..: 13:10	Analyst ID.....: 000022	
			Instrument ID..: W18	MS Run #.....: 6125150		
Percent Moisture	86	0.10	%	MCAWW 160.3 MOD	05/08-05/09/06	6128452
			Dilution Factor: 1	Analysis Time..: 11:30	Analyst ID.....: 0000640	
			Instrument ID..: W15	MS Run #.....: 6128245		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

E6E040375

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL</u> <u>METHOD</u>	<u>LEACH</u> <u>BATCH #</u>	<u>PREP</u> <u>BATCH #</u>	<u>MS RUN#</u>
001	SO	SW846 7471A		6129179	6129106
	SO	SW846 6010B		6128612	6128353
	SO	MCAWW 160.3 MOD		6128452	6128245
	SO	SW846 7199		6125079	6125150

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
MB Lot-Sample #: E6E080000-612 Prep Batch #...: 6128612							
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AC	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AA	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AD	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AF	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AG	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AE	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AK	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AN	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AP	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AH	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AJ	
		Dilution Factor: 1					
		Analysis Time..: 13:58			Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Molybdenum	ND	4.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AL
		Dilution Factor: 1				
		Analysis Time..: 13:58		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AM
		Dilution Factor: 1				
		Analysis Time..: 13:58		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AQ
		Dilution Factor: 1				
		Analysis Time..: 13:58		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AR
		Dilution Factor: 1				
		Analysis Time..: 13:58		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	05/08-05/09/06	H40AV1AT
		Dilution Factor: 1				
		Analysis Time..: 13:58		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E6E090000-179 **Prep Batch #...**: 6129179

Mercury	ND	0.10	mg/kg	SW846 7471A	05/09/06	H40RL1AA
		Dilution Factor: 1				
		Analysis Time..: 13:50		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Hexavalent Chromium	ND	0.20	mg/kg	SW846 7199	05/05/06	6125079
		Dilution Factor: 1				
		Analysis Time..: 12:33		Analyst ID.....: 000022	Instrument ID..: W18	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: E6E080000-612 Prep Batch #... : 6128612					
Arsenic	105	(80 - 115)	SW846 6010B	05/08-05/09/06	H40AV1AV
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Antimony	100	(70 - 115)	SW846 6010B	05/08-05/09/06	H40AV1AU
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Barium	100	(80 - 115)	SW846 6010B	05/08-05/09/06	H40AV1AW
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Cadmium	107	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A0
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Chromium	103	(85 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A1
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Beryllium	105	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1AX
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Lead	103	(75 - 115)	SW846 6010B	05/08-05/09/06	H40AV1A4
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Selenium	97	(75 - 110)	SW846 6010B	05/08-05/09/06	H40AV1A7
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Silver	102	(75 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A8
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			
Cobalt	103	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A2
		Dilution Factor: 1	Analysis Time..: 14:03	Analyst ID.....: 021088	
		Instrument ID..: M01			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Copper	103	(85 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A3
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			
Molybdenum	103	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A5
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			
Nickel	101	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A6
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			
Thallium	101	(75 - 120)	SW846 6010B	05/08-05/09/06	H40AV1A9
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			
Vanadium	100	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1CA
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			
Zinc	104	(80 - 120)	SW846 6010B	05/08-05/09/06	H40AV1CC
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088
		Instrument ID..: M01			

LCS Lot-Sample#: E6E090000-179 **Prep Batch #...**: 6129179

Mercury	89	(80 - 115)	SW846 7471A	05/09/06	H40RL1AC
		Dilution Factor: 1		Analysis Time..: 13:52	Analyst ID.....: 000023
		Instrument ID..: M04			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: E6E080000-612 **Prep Batch #...**: 6128612

Arsenic	200	209	mg/kg	105	SW846 6010B	05/08-05/09/06	H40AV1AV
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Antimony	50.0	50.1	mg/kg	100	SW846 6010B	05/08-05/09/06	H40AV1AU
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Barium	200	200	mg/kg	100	SW846 6010B	05/08-05/09/06	H40AV1AW
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Cadmium	5.00	5.36	mg/kg	107	SW846 6010B	05/08-05/09/06	H40AV1A0
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Chromium	20.0	20.6	mg/kg	103	SW846 6010B	05/08-05/09/06	H40AV1A1
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Beryllium	5.00	5.25	mg/kg	105	SW846 6010B	05/08-05/09/06	H40AV1AX
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Lead	50.0	51.3	mg/kg	103	SW846 6010B	05/08-05/09/06	H40AV1A4
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Selenium	200	194	mg/kg	97	SW846 6010B	05/08-05/09/06	H40AV1A7
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Silver	5.00	5.08	mg/kg	102	SW846 6010B	05/08-05/09/06	H40AV1A8
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			
Cobalt	50.0	51.5	mg/kg	103	SW846 6010B	05/08-05/09/06	H40AV1A2
				Dilution Factor: 1	Analysis Time..: 14:03		Analyst ID.....: 021088
				Instrument ID..: M01			

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Copper	25.0	25.7	mg/kg	103	SW846 6010B	05/08-05/09/06	H40AV1A3
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				
Molybdenum	100	103	mg/kg	103	SW846 6010B	05/08-05/09/06	H40AV1A5
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				
Nickel	50.0	50.6	mg/kg	101	SW846 6010B	05/08-05/09/06	H40AV1A6
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				
Thallium	200	202	mg/kg	101	SW846 6010B	05/08-05/09/06	H40AV1A9
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				
Vanadium	50.0	49.9	mg/kg	100	SW846 6010B	05/08-05/09/06	H40AV1CA
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				
Zinc	50.0	52.2	mg/kg	104	SW846 6010B	05/08-05/09/06	H40AV1CC
			Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 021088	
			Instrument ID..: M01				

LCS Lot-Sample#: E6E090000-179 **Prep Batch #...**: 6129179

Mercury	0.833	0.745	mg/kg	89	SW846 7471A	05/09/06	H40RL1AC
			Dilution Factor: 1		Analysis Time..: 13:52	Analyst ID.....: 000023	
			Instrument ID..: M04				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Hexavalent Chromium	95	(80 - 120)	SW846 7199	05/05/06	6125079
		Dilution Factor: 1		Analysis Time.: 12:14	Analyst ID.....: 000022
		Instrument ID.: W18			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E6E040375

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Hexavalent Chromium	40.0	38.1	mg/kg	95	SW846 7199	05/05/06	6125079
				Dilution Factor: 1	Analysis Time.: 12:14	Analyst ID.....: 000022	
				Instrument ID.: W18			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: E6E030424-001 Prep Batch #...: 6128612						
						% Moisture.....: 30
Arsenic	100	(80 - 115)		SW846 6010B	05/08-05/09/06	H4NG71A6
	101	(80 - 115)	0.49 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71A7
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Antimony	37 N	(70 - 115)		SW846 6010B	05/08-05/09/06	H4NG71A4
	35 N	(70 - 115)	6.4 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71A5
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Barium	80	(80 - 115)		SW846 6010B	05/08-05/09/06	H4NG71A8
	85	(80 - 115)	3.3 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71A9
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Cadmium	92	(80 - 120)		SW846 6010B	05/08-05/09/06	H4NG71CD
	92	(80 - 120)	0.47 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71CE
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Chromium	71 N	(85 - 120)		SW846 6010B	05/08-05/09/06	H4NG71CF
	92	(85 - 120)	6.2 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71CG
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Beryllium	97	(80 - 120)		SW846 6010B	05/08-05/09/06	H4NG71CA
	98	(80 - 120)	1.3 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71CC
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						
Lead	93	(75 - 115)		SW846 6010B	05/08-05/09/06	H4NG71CM
	94	(75 - 115)	0.52 (0-20)	SW846 6010B	05/08-05/09/06	H4NG71CN
Dilution Factor: 1						
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088						
MS Run #.....: 6128353						

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Selenium	94	(75 - 110)			SW846 6010B	05/08-05/09/06	H4NG71CU
	95	(75 - 110)	0.68	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CV
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Silver	97	(75 - 120)			SW846 6010B	05/08-05/09/06	H4NG71CW
	97	(75 - 120)	0.22	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CX
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Cobalt	94	(80 - 120)			SW846 6010B	05/08-05/09/06	H4NG71CH
	95	(80 - 120)	1.1	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CJ
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Copper	84 N	(85 - 120)			SW846 6010B	05/08-05/09/06	H4NG71CK
	92	(85 - 120)	3.8	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CL
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Molybdenum	94	(80 - 120)			SW846 6010B	05/08-05/09/06	H4NG71CP
	94	(80 - 120)	0.30	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CQ
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Nickel	90	(80 - 120)			SW846 6010B	05/08-05/09/06	H4NG71CR
	95	(80 - 120)	3.8	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71CT
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				
Thallium	93	(75 - 120)			SW846 6010B	05/08-05/09/06	H4NG71C0
	92	(75 - 120)	0.36	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71C1
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Vanadium	84	(80 - 120)			SW846 6010B	05/08-05/09/06	H4NG71C2
	90	(80 - 120)	3.6	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71C3
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				

Zinc	74 N	(80 - 120)			SW846 6010B	05/08-05/09/06	H4NG71C4
	86	(80 - 120)	5.9	(0-20)	SW846 6010B	05/08-05/09/06	H4NG71C5
			Dilution Factor: 1				
			Analysis Time...: 14:28		Instrument ID...: M01	Analyst ID.....: 021088	
			MS Run #.....: 6128353				

MS Lot-Sample #: E6E030424-001 Prep Batch #...: 6129179

% Moisture.....: 30

Mercury	117	(80 - 120)			SW846 7471A	05/09/06	H4NG71C7
	102	(80 - 120)	12	(0-20)	SW846 7471A	05/09/06	H4NG71C8
			Dilution Factor: 1				
			Analysis Time...: 13:56		Instrument ID...: M04	Analyst ID.....: 000023	
			MS Run #.....: 6129106				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

<u>PARAMETER</u>	<u>AMOUNT</u>	<u>SAMPLE SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: E6E030424-001 Prep Batch #...: 6128612

% Moisture.....: 30

Arsenic

14	200	214	mg/kg	100			SW846 6010B	05/08-05/09/06	H4NG71A6
14	200	215	mg/kg	101	0.49		SW846 6010B	05/08-05/09/06	H4NG71A7
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

Antimony

ND	50.0	18.5 N	mg/kg	37			SW846 6010B	05/08-05/09/06	H4NG71A4
ND	50.0	17.4 N	mg/kg	35	6.4		SW846 6010B	05/08-05/09/06	H4NG71A5
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

Barium

120	200	283	mg/kg	80			SW846 6010B	05/08-05/09/06	H4NG71A8
120	200	293	mg/kg	85	3.3		SW846 6010B	05/08-05/09/06	H4NG71A9
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

Cadmium

ND	5.00	4.60	mg/kg	92			SW846 6010B	05/08-05/09/06	H4NG71CD
ND	5.00	4.58	mg/kg	92	0.47		SW846 6010B	05/08-05/09/06	H4NG71CE
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

Chromium

49	20.0	63.2 N	mg/kg	71			SW846 6010B	05/08-05/09/06	H4NG71CF
49	20.0	67.2	mg/kg	92	6.2		SW846 6010B	05/08-05/09/06	H4NG71CG
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

Beryllium

0.56	5.00	5.40	mg/kg	97			SW846 6010B	05/08-05/09/06	H4NG71CA
0.56	5.00	5.47	mg/kg	98	1.3		SW846 6010B	05/08-05/09/06	H4NG71CC
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead									
	8.0	50.0	54.6	mg/kg	93		SW846 6010B	05/08-05/09/06	H4NG71CM
	8.0	50.0	54.9	mg/kg	94	0.52	SW846 6010B	05/08-05/09/06	H4NG71CN
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									
Selenium									
ND	200		188	mg/kg	94		SW846 6010B	05/08-05/09/06	H4NG71CU
ND	200		190	mg/kg	95	0.68	SW846 6010B	05/08-05/09/06	H4NG71CV
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									
Silver									
ND	5.00		4.84	mg/kg	97		SW846 6010B	05/08-05/09/06	H4NG71CW
ND	5.00		4.85	mg/kg	97	0.22	SW846 6010B	05/08-05/09/06	H4NG71CX
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									
Cobalt									
ND	50.0		51.7	mg/kg	94		SW846 6010B	05/08-05/09/06	H4NG71CH
ND	50.0		52.2	mg/kg	95	1.1	SW846 6010B	05/08-05/09/06	H4NG71CJ
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									
Copper									
29	25.0		50.0 N	mg/kg	84		SW846 6010B	05/08-05/09/06	H4NG71CK
29	25.0		51.9	mg/kg	92	3.8	SW846 6010B	05/08-05/09/06	H4NG71CL
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									
Molybdenum									
ND	100		95.8	mg/kg	94		SW846 6010B	05/08-05/09/06	H4NG71CP
ND	100		96.1	mg/kg	94	0.30	SW846 6010B	05/08-05/09/06	H4NG71CQ
Dilution Factor: 1									
Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088									
MS Run #.....: 6128353									

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E6E040375

Matrix.....: SOLID

Date Sampled...: 05/02/06 14:00 Date Received...: 05/03/06 18:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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Nickel	12	50.0	56.9	mg/kg	90		SW846 6010B	05/08-05/09/06	H4NG71CR
	12	50.0	59.1	mg/kg	95	3.8	SW846 6010B	05/08-05/09/06	H4NG71CT

Dilution Factor: 1
 Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088
 MS Run #.....: 6128353

Thallium	ND	200	186	mg/kg	93		SW846 6010B	05/08-05/09/06	H4NG71C0
	ND	200	186	mg/kg	92	0.36	SW846 6010B	05/08-05/09/06	H4NG71C1

Dilution Factor: 1
 Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088
 MS Run #.....: 6128353

Vanadium	31	50.0	73.6	mg/kg	84		SW846 6010B	05/08-05/09/06	H4NG71C2
	31	50.0	76.3	mg/kg	90	3.6	SW846 6010B	05/08-05/09/06	H4NG71C3

Dilution Factor: 1
 Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088
 MS Run #.....: 6128353

Zinc	65	50.0	102 N	mg/kg	74		SW846 6010B	05/08-05/09/06	H4NG71C4
	65	50.0	108	mg/kg	86	5.9	SW846 6010B	05/08-05/09/06	H4NG71C5

Dilution Factor: 1
 Analysis Time...: 14:28 Instrument ID...: M01 Analyst ID.....: 021088
 MS Run #.....: 6128353

MS Lot-Sample #: E6E030424-001 Prep Batch #...: 6129179

% Moisture.....: 30

Mercury	ND	0.167	0.242	mg/kg	117		SW846 7471A	05/09/06	H4NG71C7
	ND	0.167	0.215	mg/kg	102	12	SW846 7471A	05/09/06	H4NG71C8

Dilution Factor: 1
 Analysis Time...: 13:56 Instrument ID...: M04 Analyst ID.....: 000023
 MS Run #.....: 6129106

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E6E040375

Matrix.....: SO

Date Sampled...: 05/03/06 13:45 Date Received...: 05/04/06 10:30

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Hexavalent Chromium	95	(80 - 120)	SW846 7199	05/05/06	E6E040375-001
		Work Order #...: H4QWC1AX		MS Lot-Sample #:	
		Dilution Factor: 5		Analysis Time..: 13:10	Instrument ID..: W18
		Analyst ID.....: 000022			
		MS Run #.....: 6125150			
Hexavalent Chromium	94	(80 - 120)	SW846 7199	05/05/06	E6E040375-001
		Work Order #...: H4QWC1A1		MS Lot-Sample #:	
		Dilution Factor: 50		Analysis Time..: 13:10	Instrument ID..: W18
		Analyst ID.....: 000022			
		MS Run #.....: 6125150			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E6E040375

Matrix.....: SO

Date Sampled...: 05/03/06 13:45 Date Received...: 05/04/06 10:30

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Hexavalent Chromium	180	276	440	mg/kg	95	SW846 7199	05/05/06	6125079
			Work Order #...: H4QWC1AX			MS Lot-Sample #: E6E040375-001		
			Dilution Factor: 5			Analysis Time..: 13:10	Instrument ID..: W18	
			Analyst ID.....: 000022					
			MS Run #.....: 6125150					
Hexavalent Chromium	180	4440	4330	mg/kg	94	SW846 7199	05/05/06	6125079
			Work Order #...: H4QWC1A1			MS Lot-Sample #: E6E040375-001		
			Dilution Factor: 50			Analysis Time..: 13:10	Instrument ID..: W18	
			Analyst ID.....: 000022					
			MS Run #.....: 6125150					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

