



**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

February 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)
January 2006 Monitoring Report**

Dear Mr. Perdue:

Enclosed is the Board Order R7-2004-0103 January 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.

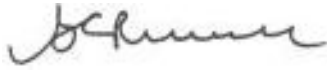
WDRs under Board Order R7-2004-0103 apply to IM No. 3 Treatment System discharge by subsurface injection wells only. In addition, the Water Board issued WDRs for IM No. 3 Treatment System discharge to the Colorado River (Board Order R7-2004-0100) and IM No. 3 Treatment System discharge to the PG&E Compressor Station (Board Order R7-2004-0080).

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 are submitted under separate covers.

Page 2
February 15, 2006

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Curt Russell", written in a cursive style.

Curt Russell
Topock Onsite Project Manager

Enclosures:

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

cc: José Cortez, RWQCB
Liann Chavez, RWQCB
Tom Vandenberg, RWQCB
Norman Shopay, DTSC

January 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

February 15, 2006

CH2MHILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

**January 2006 Monitoring Report
Interim Measures 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

February 15, 2006

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



Dennis Fink, PE No. 68986
Project Engineer



Contents

Acronyms and Abbreviations	iii
1.0 Introduction.....	1
2.0 Sampling Station Locations.....	1
3.0 Description of Activities	1
4.0 Groundwater Treatment System Flow Rates	1
5.0 Sampling and Analytical Procedures	1
6.0 Analytical Results.....	1
7.0 Conclusions	1
8.0 Certification.....	1

Tables

1	Sampling Station Descriptions
2	Flow Monitoring Results
3	Board Order No. R7-2004-0103 Waste Discharge Requirements Influent Monitoring Results
4	Board Order No. R7-2004-0103 Waste Discharge Requirements Effluent Monitoring Results
5	Board Order No. R7-2004-0103 Waste Discharge Requirements Reverse Osmosis Concentrate Monitoring Results
6	Board Order No. R7-2004-0103 Waste Discharge Requirements Sludge Monitoring Results
7	Board Order No. R7-2004-0103 Waste Discharge Requirements Monitoring Information

Figures

1	IM No. 3 Project Area Site Features
TP-PR-10-10-03	Effluent Metering Locations
TP-PR-10-10-11	Influent Metering Locations

TP-PR-10-10-04	Raw Water Storage and Treated Water Storage Tanks and Sampling Locations
TP-PR-10-10-08	Reverse Osmosis Storage Tank Sampling and Metering Locations
TP-PR-10-10-06	Sludge Storage Tanks Sampling Locations

Appendix

A	Laboratory Analytical Reports
---	-------------------------------

Acronyms and Abbreviations

gpm	gallons per minute
IM	Interim Measure
MBC	MBC Applied Environmental Sciences Laboratories
MRP	Monitoring and Reporting Program
PG&E	Pacific Gas and Electric Company
STL	Severn Trent Laboratories, Inc.
Truesdail	Truesdail Laboratories, Inc.
Water Board	California Regional Water Quality Control Board, Colorado River Basin Region
WDR	Waste Discharge Requirements

1.0 Introduction

Pacific Gas and Electric Company (PG&E) is implementing an Interim Measure (IM) to address chromium concentrations in groundwater at the Topock Compressor Station near Needles, California. The IM consists of groundwater extraction for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems collectively are referred to as IM No. 3. Figure 1 provides a map of the project area.

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 15th day of the following month.

This report covers monitoring activities related to operation of the IM No. 3 groundwater treatment system during the month of January 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. The locations of the sampling stations 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 January 2006, groundwater was extracted from extraction wells TW-2D and TW-3D from January 1 through January 25. New extraction well PE-1 was commissioned on January 25 and began routine operations on January 26, taking TW-2D offline. The target pump rate was 135 gallons per minute (gpm) during January 2006 (excluding scheduled and unscheduled downtime, which is described in Section 4.0).

4.0 Groundwater Treatment System Flow Rates

The January 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).

Periods of extraction system downtime (i.e., anytime all extraction wells were shut down simultaneously) during January 2006 are summarized below.

- **January 17, 2006:** A scheduled shutdown of the extraction well system occurred to complete the PE-1 pipeline construction tie-ins to the IM No. 3 facility. Additional IM No. 3 maintenance was completed concurrent with the construction tie-ins. The extraction well system was shut down at 8:08 a.m. and was re-started at 8:00 p.m. at reduced pumping rates, between 40 and 70 gpm. The pump rate was increased to approximately 135 gpm by 8:30 a.m. on January 18, 2006. Extraction system downtime was approximately 11 hours 52 minutes.
- **January 21 and 22, 2006:** The IM No. 3 extraction well system was shut off at 12:26 a.m. on Saturday, January 21, 2006. A hose ruptured during a clean-in-place event of spare microfilter modules inside the facility secondary containment, resulting in approximately 200 gallons of citric acid solution draining into the process drain tank (T-900) and being introduced back into the system. The citric acid affected the iron oxidation process and solids removal in the clarifier; therefore, the system operated in a re-circulation mode until plant conditions returned to normal. The extraction well system was re-started on Sunday, January 22, 2006 at a flow rate of 78 gpm at 12:31 p.m. The flow rate increased to 135 gpm at 7:05 p.m. No non-compliant water was discharged into the injection wells during this event. Extraction system downtime was approximately 36 hours 5 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 cooler at 4° Celsius and transported to Truesdail or STL via courier service under chain-of-custody documentation. Truesdail transported a portion of the sludge sample to MBC Applied Environmental Sciences Laboratories (MBC) for the aquatic bioassay analysis.

Truesdail is certified by the California Department of Health Services (Certification #1237) under the State of California's Environmental Laboratory Accreditation Program. STL is certified by the California Department of Health Services (Certification #1118) under the Environmental Laboratory Accreditation Program. MBC is certified by the California Department of Health Services (Certification # 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 CFR 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 will be 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 January 11, 2006.
- The effluent was sampled weekly; sample dates January 4, 11, 18, and 25, 2006. Additional total dissolved solids samples were collected between January 19 and February 1, 2006, for process control purposes, to correlate specific conductivity readings with total dissolved solids concentrations.
- The reverse osmosis concentrate was sampled monthly; sample date January 11, 2006.
- The sludge was sampled monthly; sample date January 11, 2006. WDR requirements state that sludge is to be sampled each time sludge 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; an aquatic bioassay test will be conducted during the first quarter of 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 the effluent limitations during the reporting period.

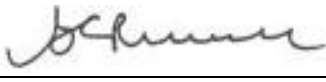
In addition, no incidents of non-compliance were identified during the reporting period, and no events that caused an immediate or potential threat to human health or the environment, or new releases of hazardous waste or hazardous waste constituents, or new solid waste management units were identified 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: _____ February 15, 2006

Tables

TABLE 1
Sampling Station Descriptions
January 2006 Report for IM 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:

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

TABLE 2
Flow Monitoring Results
January 2006 Report for IM No. 3 Groundwater Treatment System

Parameter	System Influent ^{a,d}	System Effluent ^{b,d}	Reverse Osmosis Concentrate ^{c,d}
Average Monthly Flowrate (gpm)	124.3	113.5	10.1

gpm: gallons per minute.

^a Extraction wells TW-2D, TW-3D, and PE-1 were operated during January 2006.

^b All effluent was discharged into injection well IW-2. Flow meter readings from FIT-702 were used in January 2006 to record system effluent due to communication difficulties with FIT-1202 at the injection wellhead.

^c Reverse Osmosis flow meter reading from FIT-701.

^d The difference between influent flow rate and the sum of the effluent and reverse osmosis concentrate flow rates is approximately 0.6 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.

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

Required Sampling Frequency		Monthly																						
<div>Sample ID</div> <div>Date</div>	Analytes Units ^b	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-100B-WDR-028	1/11/2006	5560	ND (0.1)	9930	7.38	3530	3530	ND (52)	ND (0.5)	ND (3.0)	ND (5.0)	ND (300)	1.46	ND (10)	2.22	ND (2.0)	ND (500)	17.1	ND (20)	4.83	0.009	686	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
January 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																	
<div><div></div><div>Analytes Units ^c</div></div>	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	µg/L
Sample ID	Date																								
SC-700B-WDR-029	1/4/2006	4190	ND (0.1)	7510	7.80	ND (1.0)	ND (1.0)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-028	1/11/2006	4270	ND (0.1)	7620	7.90	ND (1.0)	ND (1.0)	ND (52)	ND (0.5)	ND (3.0)	ND (5.0)	ND (300)	1.28	ND (10)	2.02	ND (2.0)	ND (500)	8.60	ND (20)	3.97	ND (0.005)	515	ND (300)	ND (20)	
SC-700B-WDR-030	1/18/2006	4420	ND (0.1)	7460	7.80	10.7	ND (1.0)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-19-06	1/19/2006	4070	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-20-06	1/20/2006	4390	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-23-06	1/23/2006	4350	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-24-06	1/24/2006	4370	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-25-06	1/25/2006	4420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-WDR-031	1/25/2006	4400	ND (0.1)	7900	7.89	ND (1.0)	ND (1.0)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-26-06	1/26/2006	4230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-27-06	1/27/2006	4170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-28-06	1/28/2006	4230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-1-29-06	1/29/2006	4170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SC-700B-2-1-06	2/1/2006	4310	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

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

Required Sampling Frequency		Monthly																					
<div><div></div><div>Sample ID</div></div>	<div><div>Analytes</div><div>Units ^b</div></div>	TDS	Specific Conductance	pH	Chromium	Hexavalent Chromium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Fluoride	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
	<div>Date</div>	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	
SC-701-WDR-028	1/11/2006	23600	38400	7.92	ND (0.001)	ND (0.002)	ND (0.0052)	ND (0.0052)	ND (0.3)	ND (0.0026)	ND (0.0026)	ND (0.0052)	ND (0.01)	11.6	ND (0.0026)	0.0553	ND (0.0002)	ND (0.02)	0.0229	ND (0.0052)	ND (0.0026)	0.0263	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
January 2006 Monthly Report for Interim Measures No.3 Groundwater Treatment System

Required Sampling Frequency		Each Time Sludge is Transported Offsite ^c																		
Sample ID	Date	Analytes Units ^b																		
		Chromium mg/kg	Hexavalent Chromium mg/kg	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Cobalt mg/kg	Copper mg/kg	Fluoride mg/kg	Lead mg/kg	Molybdenum mg/kg	Mercury mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg
SC-Sludge-WDR-28	1/11/2006	35000	230	ND (200)	ND (34)	95.0	ND (17)	ND (17)	ND (170)	100	13.0	ND (17)	ND (140)	2.40	ND (140)	ND (17)	ND (34)	ND (34)	ND (170)	ND (68)

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

^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 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

January 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-028	Brian Dobbs	1/11/2006	2:45:00 PM	TLI	EPA 120.1	SC	1/12/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/12/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/12/2006	Emilia Haley
					TLI	EPA 180.1	TRB	1/12/2006	Gautam Savani
					TLI	EPA 300.0	FL	1/13/2006	Iordan Stavrev
					TLI	EPA 300.0	NO3N	1/13/2006	Iordan Stavrev
					TLI	EPA 300.0	SO4	1/18/2006	Iordan Stavrev
					TLI	EPA 350.2	NH3N	1/12/2006	Alex Hernandez
					TLI	EPA 354.1	NO2N	1/12/2006	Hope Trinidad
					TLI	EPA 6010B	NI	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZN	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	MN	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	FE	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	BA	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	B	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRT	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	AL	1/13/2006	Riddhi Patel
					TLI	SW 6020A	MO	1/18/2006	Victoria Than
					TLI	SW 6020A	CU	1/18/2006	Victoria Than
					TLI	SW 6020A	SB	1/18/2006	Victoria Than
					TLI	SW 6020A	PB	1/18/2006	Victoria Than
					TLI	SW 6020A	AS	1/18/2006	Victoria Than
					TLI	SW 7199	CR6	1/12/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-028	Brian Dobbs	1/11/2006	2:30:00 PM	TLI	EPA 120.1	SC	1/12/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/12/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/12/2006	Emilia Haley
					TLI	EPA 180.1	TRB	1/12/2006	Gautam Savani
					TLI	EPA 300.0	SO4	1/18/2006	Iordan Stavrev
					TLI	EPA 300.0	NO3N	1/13/2006	Iordan Stavrev
					TLI	EPA 300.0	FL	1/13/2006	Iordan Stavrev
					TLI	EPA 350.2	NH3N	1/12/2006	Alex Hernandez
					TLI	EPA 354.1	NO2N	1/12/2006	Hope Trinidad
					TLI	EPA 6010B	MN	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	AL	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	B	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	BA	1/13/2006	Riddhi Patel

TABLE 7

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

Monitoring Information

January 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-028	Brian Dobbs	1/11/2006	2:30:00 PM	TLI	EPA 6010B	CRT	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	FE	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	NI	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	ZN	1/13/2006	Riddhi Patel
					TLI	SW 6020A	CU	1/18/2006	Victoria Than
					TLI	SW 6020A	SB	1/18/2006	Victoria Than
					TLI	SW 6020A	MO	1/18/2006	Victoria Than
					TLI	SW 6020A	AS	1/18/2006	Victoria Than
					TLI	SW 6020A	PB	1/18/2006	Victoria Than
					TLI	SW 7199	CR6	1/12/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-029	Chris Knight	1/4/2006	12:10:00 PM	TLI	EPA 120.1	SC	1/5/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/5/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/5/2006	Emilia Haley
					TLI	EPA 180.1	TRB	1/5/2006	Hope Trinidad
					TLI	EPA 6010B	CRT	1/5/2006	Riddhi Patel
					TLI	SW 7199	CR6	1/4/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-030	Brian Dobbs	1/18/2006	2:20:00 PM	TLI	EPA 120.1	SC	1/19/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/19/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/19/2006	Emilia Haley
					TLI	EPA 180.1	TRB	1/19/2006	Gautam Savani
					TLI	EPA 6010B	CRT	1/24/2006	Riddhi Patel
					TLI	SW 7199	CR6	1/19/2006	Jorge Arriaga
SC-700B	SC-700B-WDR-031	Brian Dobbs	1/25/2006	12:05:00 PM	TLI	EPA 120.1	SC	1/27/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/26/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/26/2006	Emilia Haley
					TLI	EPA 180.1	TRB	1/26/2006	Gautam Savani
					TLI	EPA 6010B	CRT	1/31/2006	Riddhi Patel
					TLI	SW 7199	CR6	1/26/2006	Jorge Arriaga
SC-701	SC-701-WDR-028	Brian Dobbs	1/11/2006	2:15:00 PM	TLI	EPA 120.1	SC	1/12/2006	Alex Hernandez
					TLI	EPA 150.1	PH	1/12/2006	Alex Hernandez
					TLI	EPA 160.1	TDS	1/12/2006	Emilia Haley
					TLI	EPA 300.0	FL	1/13/2006	Iordan Stavrev
					TLI	EPA 6010B	ZN	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	NI	1/13/2006	Riddhi Patel
					TLI	EPA 6010B	CRT	1/13/2006	Riddhi Patel

TABLE 7

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

Monitoring Information

January 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-028	Brian Dobbs	1/11/2006	2:15:00 PM	TLI	EPA 6010B	BA	1/13/2006	Riddhi Patel
					TLI	EPA 7470A	HG	1/16/2006	Riddhi Patel
					TLI	SW 6020A	SB	1/18/2006	Victoria Than
					TLI	SW 6020A	V	1/18/2006	Victoria Than
					TLI	SW 6020A	SE	1/18/2006	Victoria Than
					TLI	SW 6020A	PB	1/18/2006	Victoria Than
					TLI	SW 6020A	MO	1/18/2006	Victoria Than
					TLI	SW 6020A	AG	1/18/2006	Victoria Than
					TLI	SW 6020A	CO	1/18/2006	Victoria Than
					TLI	SW 6020A	CD	1/18/2006	Victoria Than
					TLI	SW 6020A	TL	1/18/2006	Victoria Than
					TLI	SW 6020A	BE	1/18/2006	Victoria Than
					TLI	SW 6020A	AS	1/18/2006	Victoria Than
					TLI	SW 6020A	CU	1/18/2006	Victoria Than
					TLI	SW 7199	CR6	1/12/2006	Jorge Arriaga
SC-Sludge	SC-Sludge-WDR-28	Brian Dobbs	1/11/2006	2:25:00 PM	STL	EPA 160.3	MOIST	1/17/2006	Florian Zimmermann
					TLI	EPA 300.0	FL	1/17/2006	Iordan Stavrev
					STL	EPA 6010B	NI	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	V	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	TL	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	SE	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	SB	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	PB	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	ZN	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	MO	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	CU	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	CRT	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	CO	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	CD	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	BE	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	BA	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	AG	1/18/2006	Josephine Asuncion
					STL	EPA 6010B	AS	1/18/2006	Josephine Asuncion
					STL	EPA 7471A	HG	1/17/2006	Hao Ton
					STL	SW 7199	CR6	1/18/2006	Yuriy Zakhrabov

TABLE 7

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

Monitoring Information

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

NOTES:

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

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

SC-701 = Sampling Location for all Reverse Osmosis Samples is tap on pipe T-701 (see attached P&ID TP-PR-10-10-08)

TLI = Truesdail Laboratories, Inc.

STL = Severn Trent Laboratories, Inc.

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

Figures

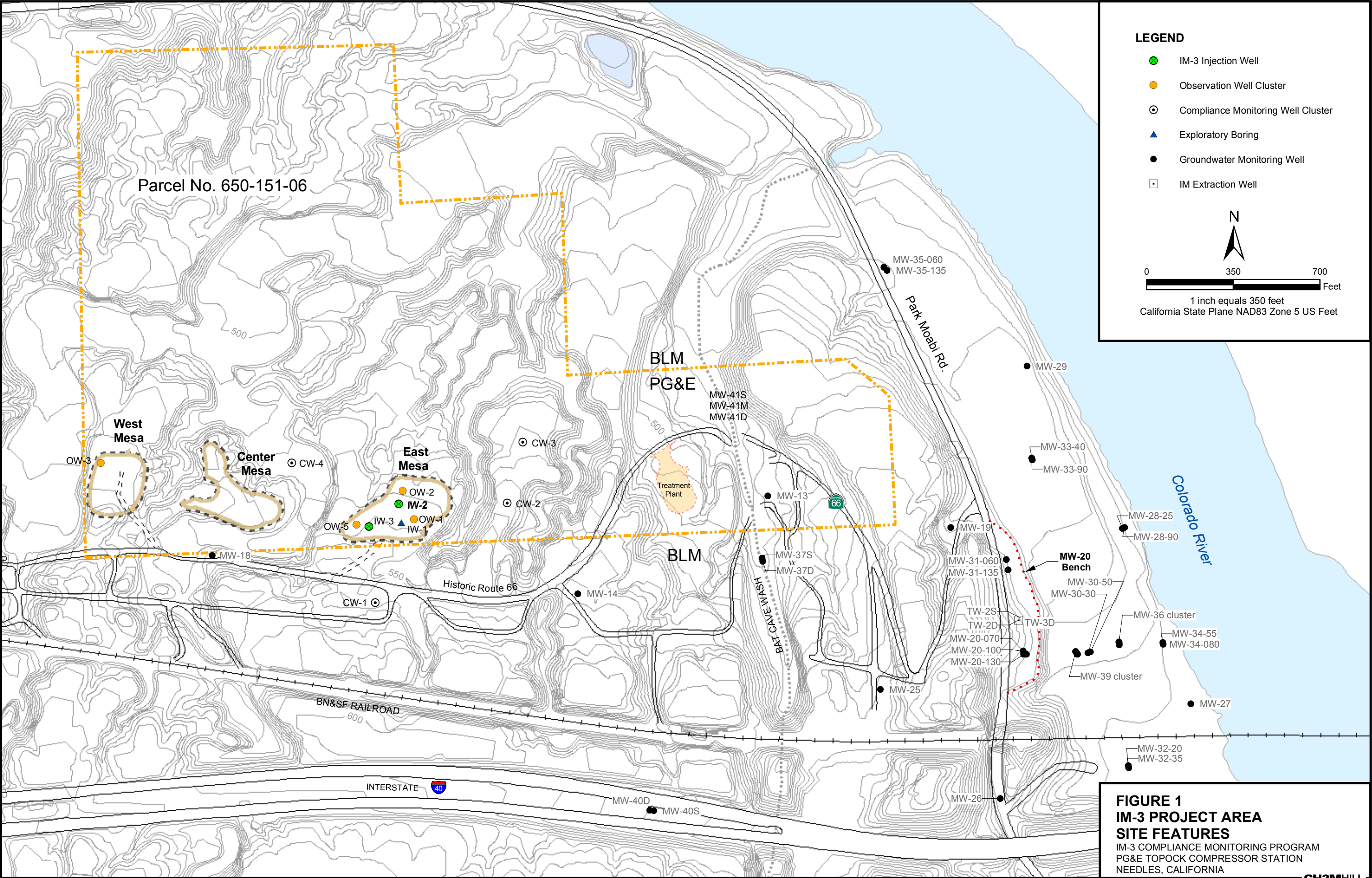
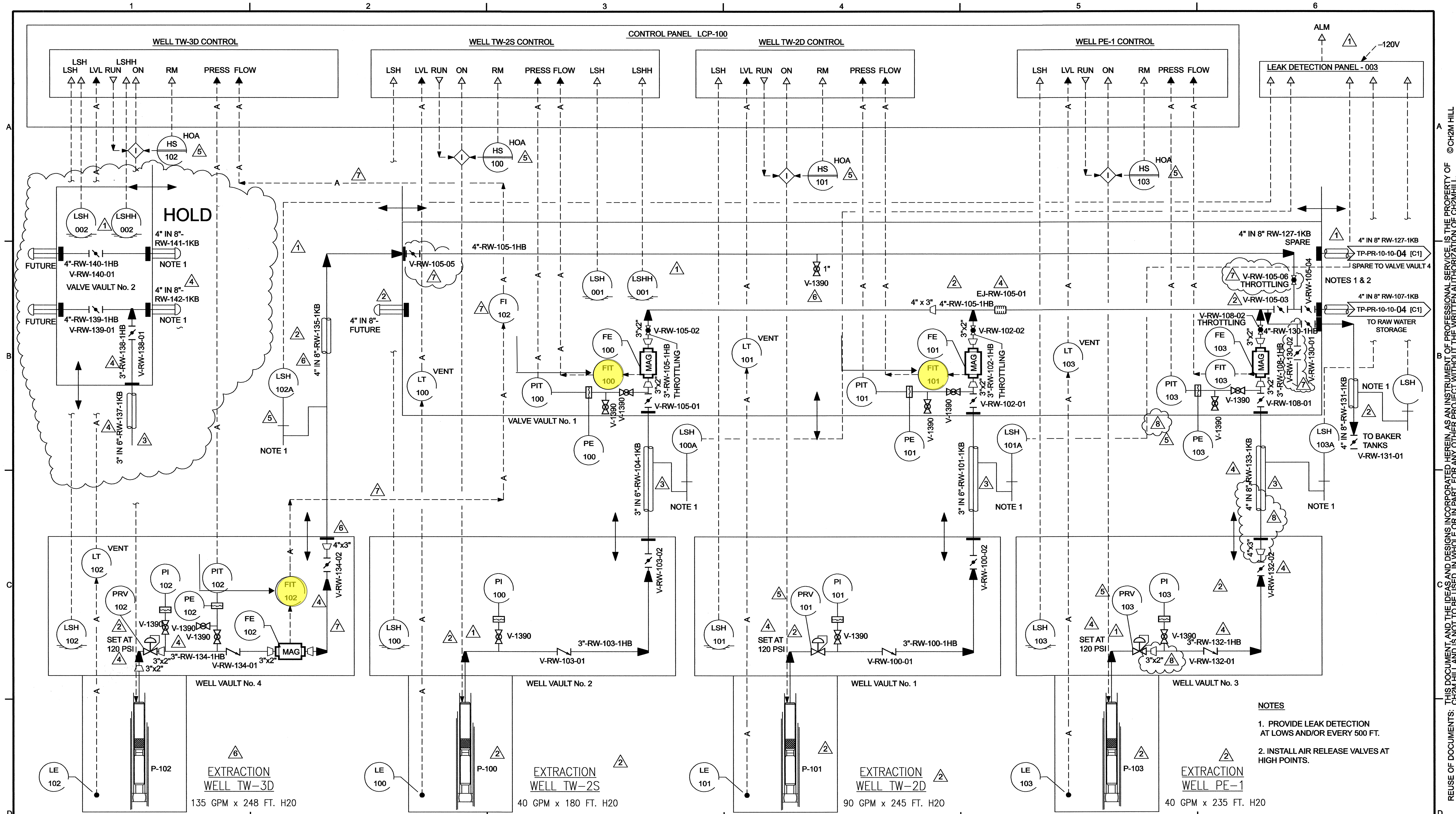


FIGURE 1
IM-3 PROJECT AREA
SITE FEATURES
IM-3 COMPLIANCE MONITORING PROGRAM
PG&E TOPECO COMPRESSOR STATION
NEEDLES, CALIFORNIA



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



RESPONSIBLE ENGINEER:
Kenneth L. Martins
PE # CH4876 Exp. 6-30-05

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

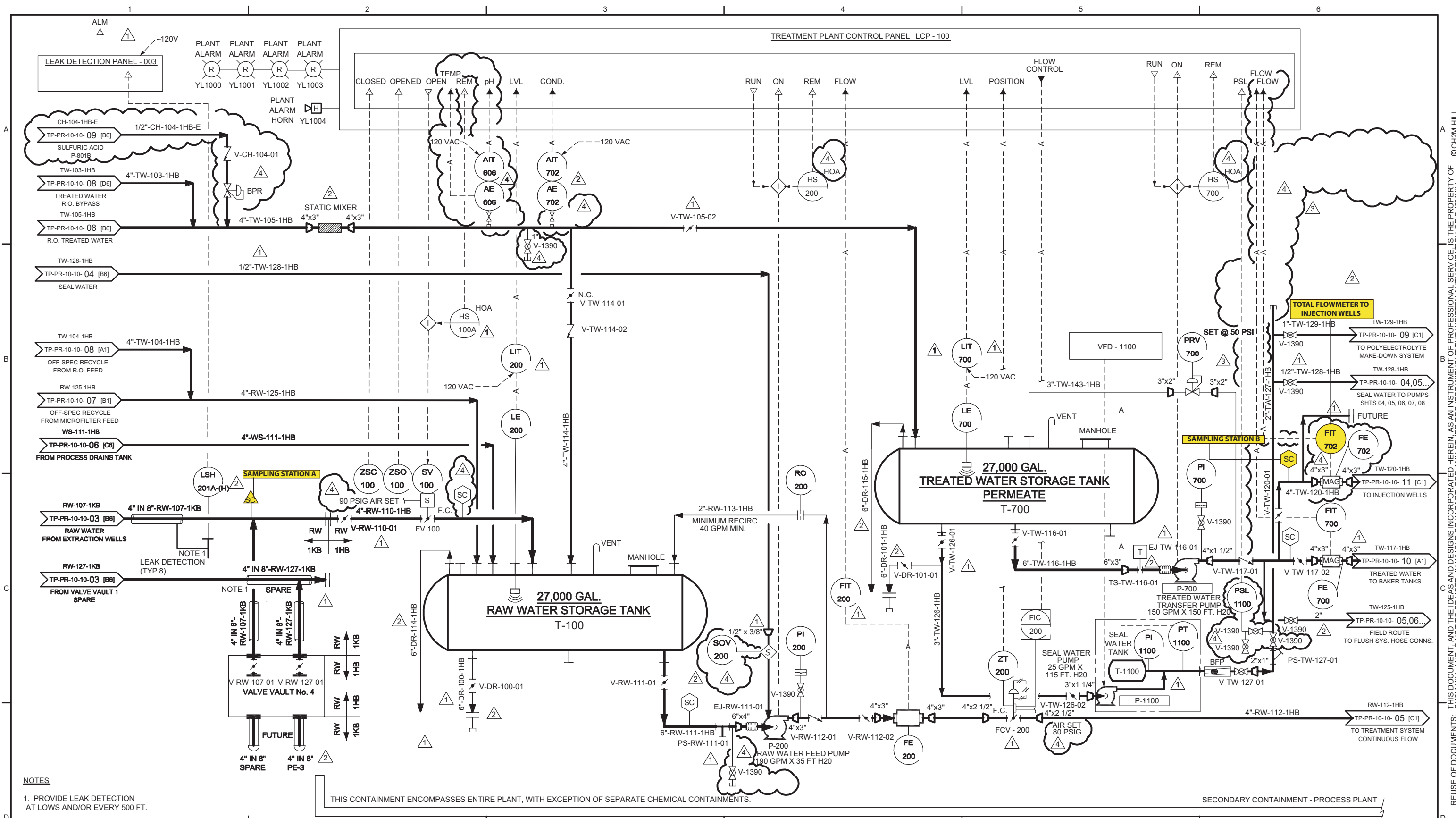
STATUS				
ISSUED	REV	DATE	SDE	PEM
PRELIMINARY				
FOR REVIEW AND APPROVAL	D	07/28/04		
APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP
REVISED & APPROVED FOR CONSTRUCTION	7	12/9/05	for KLM	AS

SCALE NONE

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

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

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

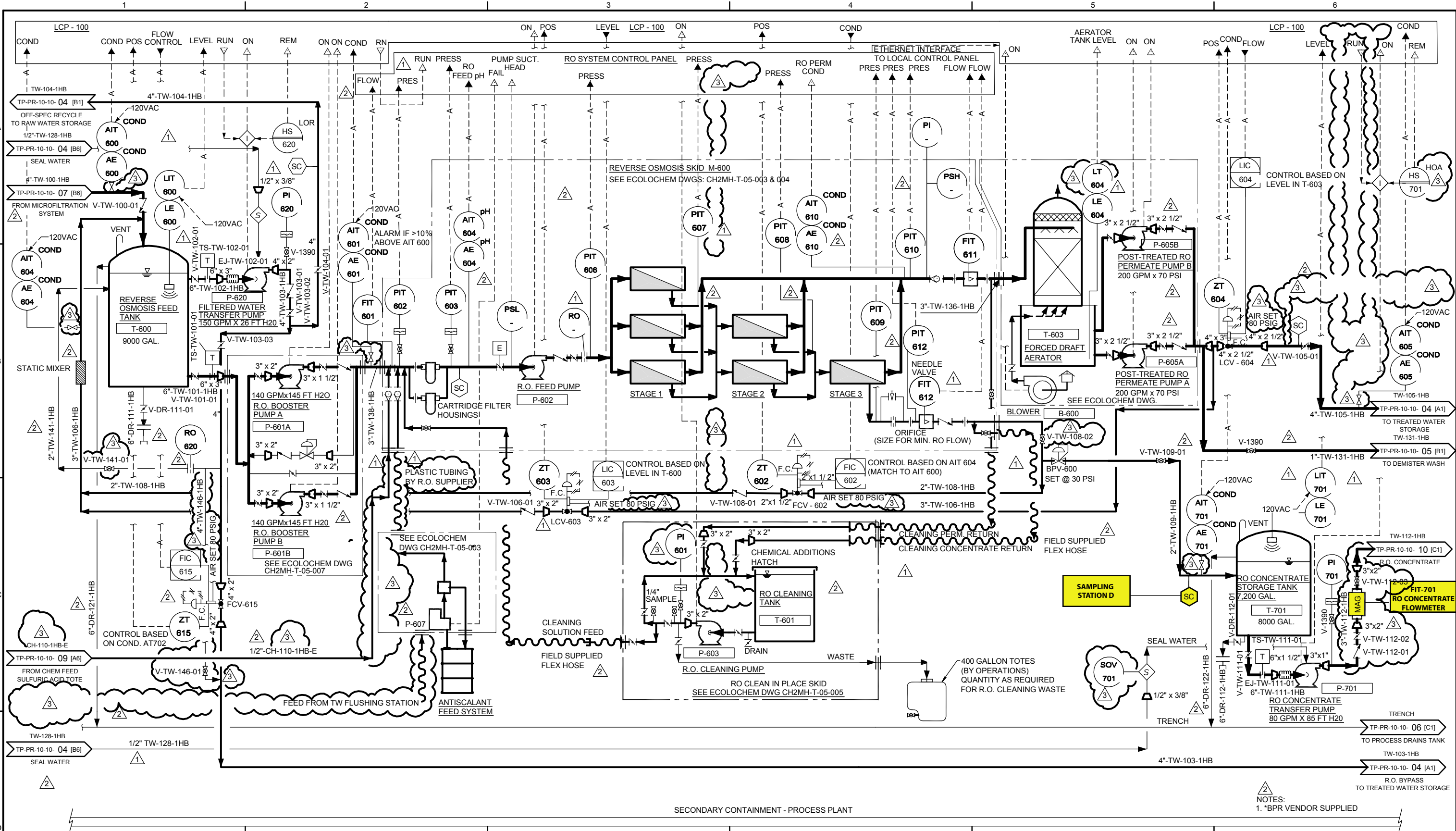


NOTES
1. PROVIDE LEAK DETECTION AT LOWS AND/OR EVERY 500 FT.

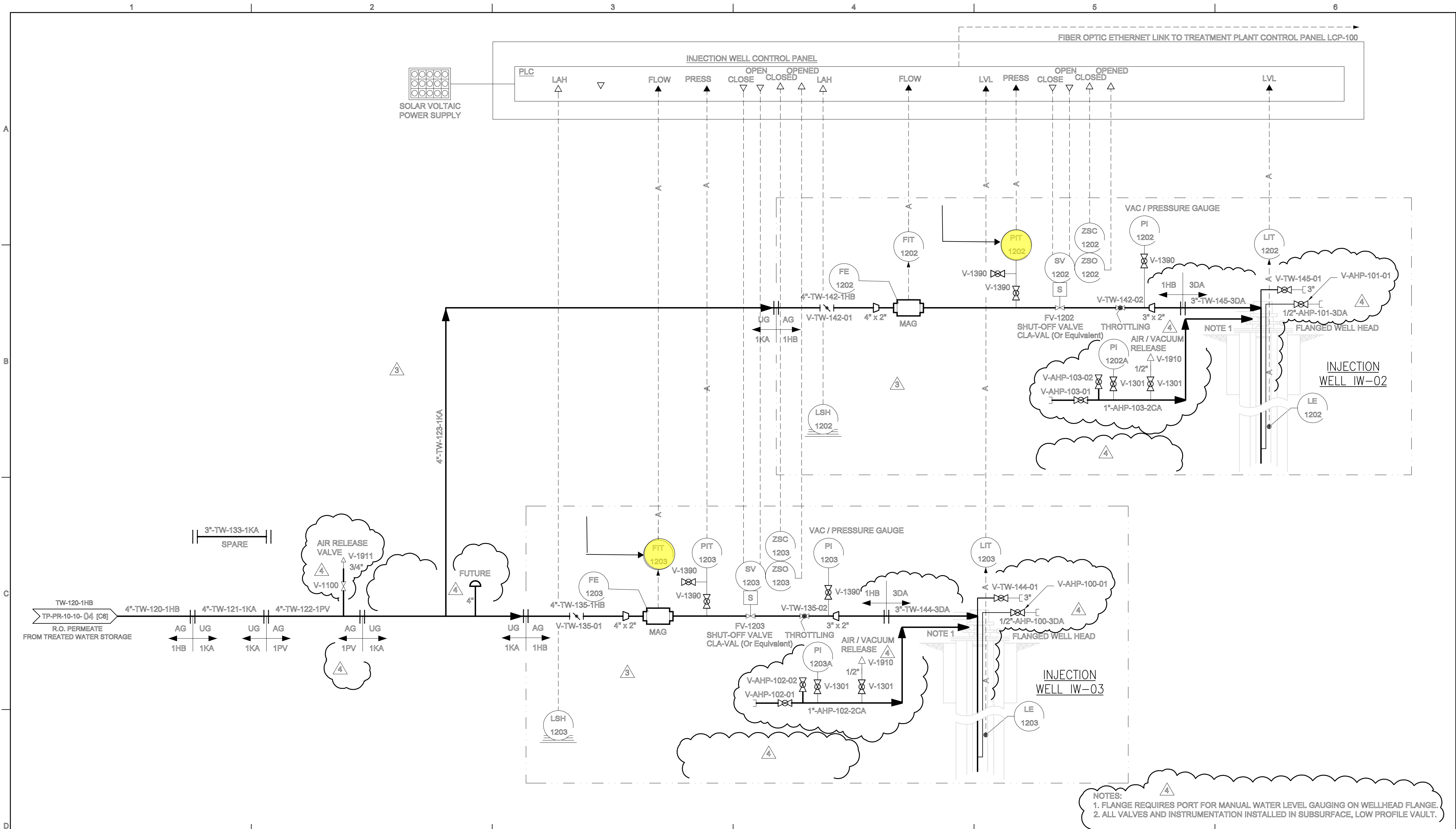
THIS CONTAINMENT ENCOMPASSES ENTIRE PLANT, WITH EXCEPTION OF SEPARATE CHEMICAL CONTAINMENTS.

SECONDARY CONTAINMENT - PROCESS PLANT

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



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



RESPONSIBLE ENGINEER: Kenneth L. Martins PE # CH4876 Exp. 5-30-05	NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL	REV 4	DATE 03/10/05	PRINT DISTRIBUTION	STATUS					PACIFIC GAS & ELECTRIC CO. TOPOCK COMPRESSOR STATION INTERIM MEASURE 3 EXPANDED GROUNDWATER EXTRACTION AND TREATMENT SYSTEM PROJ NO. 315994	PROCESS AND INSTRUMENTATION DIAGRAM SHEET 11 INJECTION WELLS	
	A	07/28/04	FOR INTERNAL REVIEW	EFC	AJ	DISCIPLINE	REVIEWED	DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE	PEM		
	0	09/03/04	APPROVED FOR CONSTRUCTION	EFC	AJ	CIVIL		ELECTRICAL		STATUS	PRELIMINARY						
	1	10/13/04	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	STRUCTURAL		INST & CONTROL		REV.	FOR REVIEW AND APPROVAL	A	07/28/04				
	2	01/23/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	MECHANICAL		ARCHITECTURAL		CLIENT	APPROVED FOR CONSTRUCTION	0	09/03/04	KLM	TP		
	3	02/14/05	REVISED AND APPROVED FOR CONSTRUCTION	EFC	AJ	PROCESS		ENVIRONMENTAL		FIELD	REVISED & APPROVED FOR CONSTRUCTION	4	/ /				
	4	03/10/05	REMOVED HOLD AND APPROVED FOR CONSTRUCTION	EFC	AJ	PIPING		GEN. ARRANG.		INTRA CO.						DWG. NO. TP-PR-10-10-11	REV. 4
										SCALE NONE		CH2MHILL					

Appendix A

Laboratory Analytical Reports

TRUESDAIL LABORATORIES, INC.

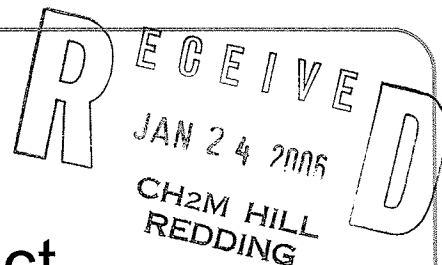
INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

CH2M HILL PG&E Topock Project



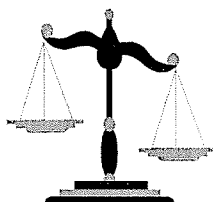
Laboratory Number: 950723

Received: January 11, 2006

IM3Plant-WDR-028

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: 950723

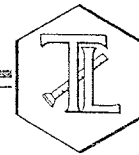
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

January 19, 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-028 PROJECT, GROUNDWATER
MONITORING,
TLI No.: 950723

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-028 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, Anions, Ammonia, Total Dissolved Solids, Title 22 and metals according to the list provided. A summary table for this laboratory number is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on January 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.

Sample SC-700B-WDR-028 was sampled on 01/11/06 at 14:30. The sample was analyzed for Nitrate as N by EPA 300.0 within holding time. The sample duplicate and matrix spike runs, however, were out of holding time. The matrix spike had to be performed with 2-fold dilution to avoid exceeding the calibration range. Since, the sample result from the 2x dilution was past holding time, the straight run was reported.

During ICP/MS calibration, the standards for Copper and Silver were too high. The analyst prepared new standards and re-calibrated the Silver and Copper curves. Analysis proceeded normally.

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.

Julia Nayberg
Manager, Analytical Services

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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Attention: Shawn Duffy

Laboratory No.: 950723
Date Received: January 11, 2006

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>EPA 150.1</u> <i>pH</i>	<u>EPA 120.1</u> <i>EC</i>	<u>EPA 160.1</u> <i>TDS</i>	<u>EPA 180.1</u> <i>Turbidity</i>	<u>SW 7199</u> <i>Hexavalent Chromium</i>	<u>EPA 350.2</u> <i>Ammonia</i>
			<i>Units</i>	<i>μmhos/cm</i>	<i>mg/L</i>	<i>NTU</i>	<i>mg/L</i>	<i>mg/L</i>
950723-1	SC-100B-WDR-028	14:45	7.38	9930	5560	ND	3.53	ND
950723-2	SC-700B-WDR-028	14:30	7.90	7620	4270	ND	ND	ND
950723-3	SC-701-WDR-028	14:15	7.92	38400	23600	---	ND	---

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>EPA 300.0</u> <i>Fluoride</i>	<u>EPA 300.0</u> <i>Sulfate</i>	<u>EPA 300.0</u> <i>Nitrate as N</i>	<u>EPA 354.1</u> <i>Nitrite as N</i>
			<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>
950723-1	SC-100B-WDR-028	14:45	2.22	686	4.83	0.0090
950723-2	SC-700B-WDR-028	14:30	2.02	515	3.97	ND
950723-3	SC-701-WDR-028	14:15	11.6	---	---	---

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.

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

Client: CH2M HILL

155 Grand Ave. Suite 1000

Oakland, CA 94612

Laboratory No.: 950723

Date Received: January 11, 2006

Attention: Shawn Duffy

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Analytical Results Summary

METALS ANALYSIS: Total Metal Analyses as Requested

Lab I.D.	Sample ID	Time Coll.	Date of Analysis:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
				EPA 6010B	EPA 6020	EPA 6020	EPA 6010B	EPA 6020	EPA 6020	EPA 6010B	EPA 6020	EPA 6020	EPA 6020
				01/13/06	01/18/06	01/18/06	01/13/06	01/18/06	01/18/06	01/13/06	01/18/06	01/18/06	01/18/06
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
950723-1	SC-100B-WDR-028	14:45	ND	ND	ND	ND	---	---	3.53	---	ND	ND	ND
950723-2	SC-700B-WDR-028	14:30	ND	ND	ND	ND	---	---	ND	---	ND	ND	ND
950723-3	SC-701-WDR-028	14:15	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Lab I.D.	Sample ID	Date of Analysis: Time Coll.	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
			EPA 6010B	EPA 6010B	EPA 7470A	EPA 6020	EPA 6010B	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6010B
			---	01/13/06	01/16/06	01/18/06	01/13/06	01/18/06	01/18/06	01/18/06	01/18/06	01/18/06	01/13/06
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
950723-1	SC-100B-WDR-028	14:45	---	ND	---	0.0171	ND	---	---	---	---	ND	
950723-2	SC-700B-WDR-028	14:30	---	ND	---	0.0086	ND	---	---	---	---	ND	
950723-3	SC-701-WDR-028	14:15	---	---	ND	0.0553	ND	0.0229	ND	ND	0.0263	ND	

Lab I.D.	Sample ID	Date of Analysis: Time Coll.	Boron	Calcium	Iron	Potassium	Sodium
			EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B
			01/13/06	---	01/13/06	---	---
			mg/L	mg/L	mg/L	mg/L	mg/L
950723-1	SC-100B-WDR-028	14:45	1.46	---	ND	---	---
950723-2	SC-700B-WDR-028	14:30	1.28	---	ND	---	---
950723-3	SC-701-WDR-028	14:15	---	---	---	---	---

NOTES:

ND: Not detected, or below limit of detection

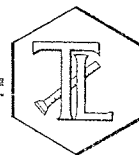
This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use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

Section 3.0

Final Reports

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.: 950723

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

Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 12, 2006
Analytical Batch: 01EC06N

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

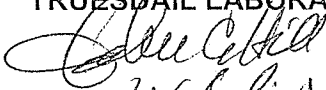
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
950723-1	SC-100B-WDR-028	µmhos/cm	EPA 120.1	10.0	20.0	9930
950723-2	SC-700B-WDR-028	µmhos/cm	EPA 120.1	10.0	20.0	7620
950723-3	SC-701-WDR-028	µmhos/cm	EPA 120.1	10.0	20.0	38400

QA/QC Summary

<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Relative Percent Difference</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	950758-1	454	456	0.44%	≤ 10%	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
CCS	674	706	95.5%	90% - 110%	Yes
CVS#1	927	998	92.9%	90% - 110%	Yes
LCS	677	706	95.9%	90% - 110%	Yes
LCSD	678	706	96.0%	90% - 110%	Yes

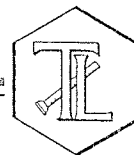
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 950723

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

Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 12, 2006
Analytical Batch: 01PH06P

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>
950723-1	SC-100B-WDR-028	07:05	pH Units	0.0140	0.100	7.38
950723-2	SC-700B-WDR-028	07:10	pH Units	0.0140	0.100	7.90
950723-3	SC-701-WDR-028	07:15	pH Units	0.0140	0.100	7.92

QA/QC Summary

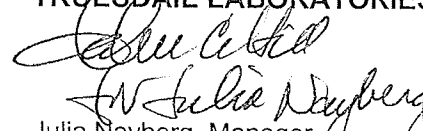
<u>QC STD I.D.</u>	<u>Laboratory Number</u>	<u>Concentration</u>	<u>Duplicate Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance limits</u>	<u>QC Within Control</u>
Duplicate	950723-1	7.38	7.39	0.01	+ 0.100 Units	Yes

<u>QC Std I.D.</u>	<u>Measured Concentration</u>	<u>Theoretical Concentration</u>	<u>Difference (Units)</u>	<u>Acceptance Limits</u>	<u>QC Within Control</u>
LCS	7.00	7.00	0.00	+ 0.100 Units	Yes
LCS #1	7.00	7.00	0.00	+ 0.100 Units	Yes
LCS #2	7.00	7.00	0.00	+ 0.100 Units	Yes

ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Laboratory No.: 950723
Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 12, 2006
Analytical Batch: 01TDS06E

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>
950723-1	SC-100B-WDR-028	mg/L	EPA 160.1	312	5560
950723-2	SC-700B-WDR-028	mg/L	EPA 160.1	250	4270
950723-3	SC-701-WDR-028	mg/L	EPA 160.1	1250	23600



QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	950723-2	4270	4270	0.00%	≤ 5%	Yes

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

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.



Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 950723

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

Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 12, 2006
Analytical Batch: 01TUC06L

Investigation:

Turbidity by Method EPA 180.1

Analytical Results Turbidity

TLI I.D.	Field I.D.	Sample Time	Units	DF	RL	Results
950723-1	SC-100B-WDR-028	14:45	NTU	1.00	0.100	ND
950723-2	SC-700B-WDR-005	14:30	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	950664-7	15.2	16.2	6.37%	≤ 20%	Yes

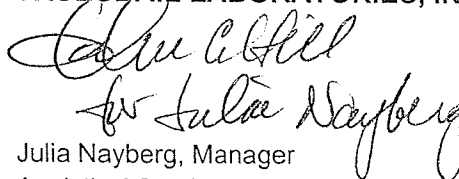
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	8.20	8.00	103%	90% - 110%	Yes
LCS	8.16	8.00	102%	90% - 110%	Yes
LCS	8.18	8.00	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor

Respectfully submitted,

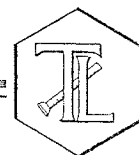
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950723

Date: January 18, 2006

Collected: January 11, 2006

Received: January 11, 2006

Prep/ Analyzed: January 12, 2006

Analytical Batch: 01NO206F

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>
950723-1	SC-100B-WDR-028	14:45	15:52	mg/L	1.00	0.0050	0.0090
950723-2	SC-700B-WDR-028	14:30	15:53	mg/L	1.00	0.0050	ND

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control	
Duplicate		950723-1		0.0090	0.0081	10.5%	≤ 20%	Yes	

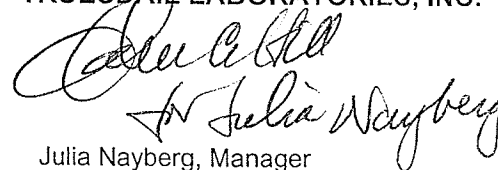
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950723-2	0.00	1.00	0.100	0.100	0.110	0.100	110%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.0992	0.100	99.2%	90% - 110%	Yes
MRCVS#1	0.104	0.100	104%	90% - 110%	Yes
MRCVS#2	0.105	0.100	105%	90% - 110%	Yes
LCS	0.201	0.200	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950723

Date: January 18, 2006

Collected: January 11, 2006

Received: January 11, 2006

Prep/ Analyzed: January 12, 2006

Analytical Batch: 01NH306C

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
950723-1	SC-100B-WDR-028	14:45	EPA 350.2	mg/L	1.00	0.500	ND
950723-2	SC-700B-WDR-028	14:30	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	950723-1	ND	ND	0.0%	≤ 20%	Yes

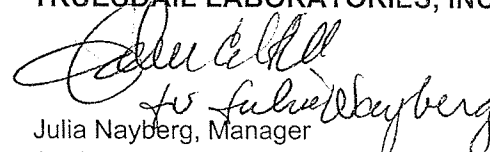
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950723-2	0.00	1.00	10.0	10.0	8.54	10.0	85.4%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	9.69	10.0	96.9%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

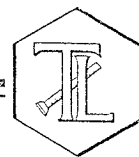
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

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.: 950723
Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 13, 2006
Analytical Batch: 01AN06K

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
950723-1	SC-100B-WDR-028	14:45	14:03	mg/L	1.00	0.200	4.83
950723-2	SC-700B-WDR-028	14:30	14:14	mg/L	1.00	0.200	3.97

QA/QC Summary

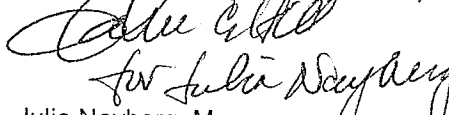
QC STD I.D.		Laboratory Number		Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control	
Duplicate		950723-2		3.97	3.98	0.25%	≤ 20%	Yes	

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950723-2 2X	3.99	2.00	2.00	4.00	7.90	7.99	97.8%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	3.94	4.00	98.5%	90% - 110%	Yes
MRCVS#1	2.99	3.00	99.7%	90% - 110%	Yes
MRCVS#2	2.98	3.00	99.3%	90% - 110%	Yes
MRCVS#3	3.00	3.00	100%	90% - 110%	Yes
MRCVS#4	2.99	3.00	99.7%	90% - 110%	Yes
LCS	3.94	4.00	98.5%	90% - 110%	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Laboratory No.: 950723

Date: January 18, 2006

Collected: January 11, 2006

Received: January 11, 2006

Prep/ Analyzed: January 18, 2006

Analytical Batch: 01AN060

Investigation: Sulfate by Method EPA 300.0

Analytical Results Sulfate

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
950723-1	SC-100B-WDR-028	14:45	13:15	mg/L	50.0	25.0	686
950723-2	SC-700B-WDR-028	14:30	13:47	mg/L	25.0	12.5	515

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950723-1	686	684	0.29%	≤ 20%	Yes

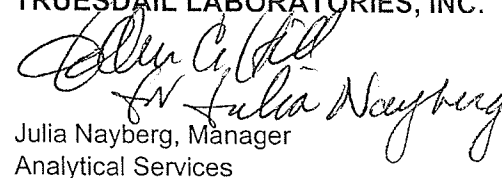
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950723-1	686	50.0	20.0	1000	1730	1686	104%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	20.6	20.0	103%	90% - 110%	Yes
MRCVS#1	15.8	15.0	105%	90% - 110%	Yes
MRCVS#2	15.7	15.0	105%	90% - 110%	Yes
MRCVS#3	15.7	15.0	105%	90% - 110%	Yes
LCS	20.6	20.0	103%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

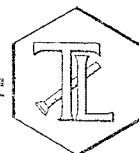
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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: Three (3) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Prep. Batch: 01CrH06L

Laboratory No.: 950723

Date: January 18, 2006

Collected: January 11, 2006

Received: January 11, 2006

Prep/ Analyzed: January 12, 2006

Analytical Batch: 01CrH06L

Investigation: Hexavalent Chromium by IC Using Method SW 7199.

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
950723-1	SC-100B-WDR-028	14:45	09:42	mg/L	200	0.0400	3.53
950723-2	SC-700B-WDR-028	14:30	10:10	mg/L	5.00	0.0010	ND
950723-3	SC-701-WDR-028	14:15	10:57	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	950723-1	3.53	3.55	0.56%	< 20%	Yes

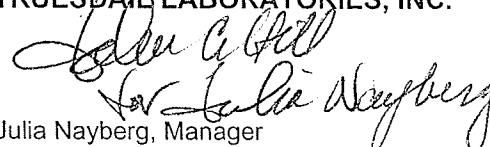
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950723-1	3.53	200	0.0200	4.00	7.56	7.53	101%	75-125%	Yes
MS	950723-2	0.00	5.00	0.00100	0.00500	0.00473	0.00500	94.6%	75-125%	Yes
MS	949622-3	0.00	10.0	0.00100	0.0100	0.0108	0.0100	108%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00527	0.00500	105%	90% - 110%	Yes
MRCVS#1	0.01040	0.0100	104%	90% - 110%	Yes
MRCVS#2	0.01030	0.0100	103%	90% - 110%	Yes
MRCVS#3	0.01030	0.0100	103%	90% - 110%	Yes
MRCVS#4	0.01020	0.0100	102%	90% - 110%	Yes
LCS	0.00519	0.00500	104%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Laboratory No.: 950723

Attention: Shawn Duffy

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

Reported: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Analyzed: January 18, 2006

Investigation: Total Metal Analyses as Requested

Analytical Results

SAMPLE ID: SC-100B-WDR-028		Time Collected: 14:45		LAB ID: 950723-1				
Parameter	Method	Reported				Batch	Date	Time
		Value	DF	Units	RL		Analyzed	Analyzed
Aluminum	EPA 6010B	ND	1.04	mg/L	0.0520	011306B	01/13/06	14:31
Antimony	EPA 6020	ND	2.08	mg/L	0.0030	011806A	01/18/06	09:34
Arsenic	EPA 6020	ND	2.08	mg/L	0.0050	011806A	01/18/06	09:34
Barium	EPA 6010B	ND	1.04	mg/L	0.300	011306B	01/13/06	14:31
Chromium	EPA 6010B	3.53	1.04	mg/L	0.0104	011306B	01/13/06	14:31
Copper	EPA 6020	ND	2.08	mg/L	0.0100	011806A	01/18/06	09:34
Lead	EPA 6020	ND	2.08	mg/L	0.0020	011806A	01/18/06	09:34
Manganese	EPA 6010B	ND	1.04	mg/L	0.500	011306B	01/13/06	14:31
Molybdenum	EPA 6020	0.0171	2.08	mg/L	0.0050	011806A	01/18/06	09:34
Nickel	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:31
Zinc	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:31
Boron	EPA 6010B	1.46	1.04	mg/L	0.200	011306B	01/13/06	14:31
Iron	EPA 6010B	ND	1.04	mg/L	0.300	011306B	01/13/06	14:31

SAMPLE ID: SC-700B-WDR-028		Time Collected: 14:30		LAB ID: 950723-2				
Parameter	Method	Reported				Batch	Date	Time
		Value	DF	Units	RL		Analyzed	Analyzed
Aluminum	EPA 6010B	ND	1.04	mg/L	0.0520	011306B	01/13/06	14:47
Antimony	EPA 6020	ND	2.08	mg/L	0.0030	011806A	01/18/06	09:40
Arsenic	EPA 6020	ND	2.08	mg/L	0.0050	011806A	01/18/06	09:40
Barium	EPA 6010B	ND	1.04	mg/L	0.300	011306B	01/13/06	14:47
Chromium	EPA 6010B	ND	1.04	mg/L	0.0010	011306A	01/13/06	10:27
Copper	EPA 6020	ND	2.08	mg/L	0.0100	011806A	01/18/06	09:40
Lead	EPA 6020	ND	2.08	mg/L	0.0020	011806A	01/18/06	09:40
Manganese	EPA 6010B	ND	1.04	mg/L	0.500	011306B	01/13/06	14:47
Molybdenum	EPA 6020	0.0086	2.08	mg/L	0.0050	011806A	01/18/06	09:40
Nickel	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:47
Zinc	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:47
Boron	EPA 6010B	1.28	1.04	mg/L	0.200	011306B	01/13/06	14:47
Iron	EPA 6010B	ND	1.04	mg/L	0.300	011306B	01/13/06	14:47

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



TRUESDAIL LABORATORIES, INC.

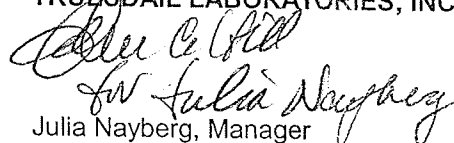
Report Continued

SAMPLE ID: SC-701-WDR-028		Time Collected: 14:15		LAB ID: 950723-3				
Parameter	Method	Reported		Units	RL	Batch	Date	Time
		Value	DF				Analyzed	Analyzed
Antimony	EPA 6020	ND	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Arsenic	EPA 6020	ND	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Barium	EPA 6010B	ND	1.04	mg/L	0.300	011306B	01/13/06	14:55
Beryllium	EPA 6020	ND	5.21	mg/L	0.0026	011806A	01/18/06	09:45
Cadmium	EPA 6020	ND	5.21	mg/L	0.0026	011806A	01/18/06	09:45
Chromium	EPA 6010B	ND	1.04	mg/L	0.0010	011306A	01/13/06	10:32
Cobalt	EPA 6020	ND	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Copper	EPA 6020	ND	5.21	mg/L	0.0100	011806A	01/18/06	09:45
Lead	EPA 6020	ND	5.21	mg/L	0.0026	011806A	01/18/06	09:45
Mercury	EPA 7470A	ND	1.00	mg/L	0.00020	011606A	01/16/06	NA
Molybdenum	EPA 6020	0.0553	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Nickel	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:55
Selenium	EPA 6020	0.0229	5.21	mg/L	0.0104	011806A	01/18/06	09:45
Silver	EPA 6020	ND	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Thallium	EPA 6020	ND	5.21	mg/L	0.0026	011806A	01/18/06	09:45
Vanadium	EPA 6020	0.0263	5.21	mg/L	0.0052	011806A	01/18/06	09:45
Zinc	EPA 6010B	ND	1.04	mg/L	0.0200	011306B	01/13/06	14:55

ND: Not detected, or below limit of detection.

DF: Dilution factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

Client: 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.: 950723

Reported: January 18, 2006

Collected: January 11, 2006

Received: January 11, 2006

Investigation: Total Metal Analyses as Requested

Quality Control/Quality Assurance Report

Parameter	Method	Batch	Units	BLANK		MRCCS			MRCVS				
				Blank	RL	Observed Value	TRUE Value	% Rec	Control Limits	Observed Value	TRUE Value	% Rec	Control Limits %
Chromium	EPA 6010B	011306B	mg/L	ND	0.0100	5.08	5.00	102%	90-110%	4.92	5.00	98.4%	90-110%

LABORATORY CONTROL SAMPLES							SAMPLE DUPLICATES				Precision
Parameter	Method	Units	LCS	LCS	%	Control	SAMPLE ID	SAMPLE RESULT	DUP RESULT	% RPD	Control Limits %
			Obs.	Theo.	Rec.	Limits					
Chromium	EPA 6010B	mg/L	4.95	5.00	99.0%	90-110%	950723-1	3.53	3.44	2.58%	≤20

MATRIX SPIKE

Sample ID	Parameter	Method	Units	Sample Result	DF	Spike Level	Total Amt. of Spike	Theo. Value	MS Obs.	% Rec.	Accuracy Control Limits %
											75-125%
950723-1	Chromium	EPA 6010B	mg/L	3.53	1.04	2.50	2.60	6.13	5.92	91.9%	75-125%

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

**TRUESDAIL LABORATORIES, INC.**

Report Continued

Parameter	Method	Batch	Units	BLANK		MRCCS			MRCVS				
				Blank	RL	Observed Value	TRUE Value	% Rec	Control Limits	Observed Value	TRUE Value	% Rec	Control Limits %
Aluminum	EPA 6010B	011306B	mg/L	ND	0.0500	4.99	5.00	99.8%	90-110%	4.81	5.00	96.2%	90-110%
Antimony	EPA 6020	011806A	mg/L	ND	0.0030	0.0463	0.0500	92.6%	90-110%	0.0452	0.0500	90.4%	90-110%
Arsenic	EPA 6020	011806A	mg/L	ND	0.0050	0.0460	0.0500	92.0%	90-110%	0.0474	0.0500	94.8%	90-110%
Barium	EPA 6010B	011306B	mg/L	ND	0.300	5.01	5.00	100%	90-110%	4.94	5.00	98.8%	90-110%
Beryllium	EPA 6020	011806A	mg/L	ND	0.0010	0.0450	0.0500	90.0%	90-110%	0.0511	0.0500	102%	90-110%
Cadmium	EPA 6020	011806A	mg/L	ND	0.0020	0.0461	0.0500	92.2%	90-110%	0.0488	0.0500	97.6%	90-110%
Chromium	EPA 6010B	011306A	mg/L	ND	0.0010	0.00949	0.0100	94.9%	90-110%	0.00938	0.0100	93.8%	90-110%
Cobalt	EPA 6020	011806A	mg/L	ND	0.0050	0.0486	0.0500	97.2%	90-110%	0.0500	0.0500	100%	90-110%
Copper	EPA 6020	011806A	mg/L	ND	0.0100	0.0530	0.0500	106%	90-110%	0.0504	0.0500	101%	90-110%
Lead	EPA 6020	011806A	mg/L	ND	0.0020	0.0486	0.0500	97.2%	90-110%	0.0501	0.0500	100%	90-110%
Manganese	EPA 6010B	011306B	mg/L	ND	0.500	5.08	5.00	102%	90-110%	4.95	5.00	99.0%	90-110%
Mercury	EPA 7470A	011606A	mg/L	ND	0.00020	0.00104	0.00100	104%	90-110%	0.00092	0.00100	92.0%	80-120%
Molybdenum	EPA 6020	011806A	mg/L	ND	0.0050	0.0469	0.0500	93.8%	90-110%	0.0480	0.0500	96.0%	90-110%
Nickel	EPA 6010B	011306B	mg/L	ND	0.0200	5.06	5.00	101%	90-110%	4.95	5.00	99.0%	90-110%
Selenium	EPA 6020	011806A	mg/L	ND	0.0050	0.0452	0.0500	90.4%	90-110%	0.0471	0.0500	94.2%	90-110%
Silver	EPA 6020	011806A	mg/L	ND	0.0050	0.0472	0.0500	94.4%	90-110%	0.0488	0.0500	97.6%	90-110%
Thallium	EPA 6020	011806A	mg/L	ND	0.0010	0.0487	0.0500	97.4%	90-110%	0.0496	0.0500	99.2%	90-110%
Vanadium	EPA 6020	011806A	mg/L	ND	0.0050	0.0517	0.0500	103%	90-110%	0.0529	0.0500	106%	90-110%
Zinc	EPA 6010B	011306B	mg/L	ND	0.0200	4.64	5.00	92.8%	90-110%	5.01	5.00	100%	90-110%
Boron	EPA 6010B	011306B	mg/L	ND	0.200	5.01	5.00	100%	90-110%	4.96	5.00	99.2%	90-110%
Iron	EPA 6010B	011306B	mg/L	ND	0.300	5.06	5.00	101%	90-110%	4.94	5.00	98.8%	90-110%

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



TRUESDAIL LABORATORIES, INC.

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 6010B	mg/L	4.90	5.00	98.0%	90-110%	950723-1	ND	ND	0.00%	≤20
Antimony	EPA 6020	mg/L	0.0454	0.0500	90.8%	90-110%	950723-3	ND	ND	0.00%	≤20
Arsenic	EPA 6020	mg/L	0.0476	0.0500	95.2%	90-110%	950723-3	ND	ND	0.00%	≤20
Barium	EPA 6010B	mg/L	4.90	5.00	98.0%	90-110%	950723-1	ND	ND	0.00%	≤20
Beryllium	EPA 6020	mg/L	0.0502	0.0500	100%	90-110%	950723-3	ND	ND	0.00%	≤20
Cadmium	EPA 6020	mg/L	0.0490	0.0500	98.0%	90-110%	950723-3	ND	ND	0.00%	≤20
Chromium	EPA 6010B	mg/L	0.00927	0.0100	92.7%	90-110%	950655-3	0.00498	0.00475	4.73%	≤20
Cobalt	EPA 6020	mg/L	0.0535	0.0500	107%	90-110%	950723-3	ND	ND	0.00%	≤20
Copper	EPA 6020	mg/L	0.0533	0.0500	107%	90-110%	950723-3	ND	ND	0.00%	≤20
Lead	EPA 6020	mg/L	0.0494	0.0500	98.8%	90-110%	950723-3	ND	ND	0.00%	≤20
Manganese	EPA 6010B	mg/L	4.96	5.00	99.2%	90-110%	950723-1	ND	ND	0.00%	≤20
Mercury	EPA 7470A	mg/L	0.00093	0.00100	93.0%	80-120%	950723-3	ND	ND	0.00%	≤20
Molybdenum	EPA 6020	mg/L	0.0498	0.0500	99.6%	90-110%	950723-3	0.0553	0.0568	2.68%	≤20
Nickel	EPA 6010B	mg/L	4.88	5.00	97.6%	90-110%	950723-1	ND	ND	0.00%	≤20
Selenium	EPA 6020	mg/L	0.0493	0.0500	98.6%	90-110%	950723-3	0.0229	0.0261	13.1%	≤20
Silver	EPA 6020	mg/L	0.0500	0.0500	100%	90-110%	950723-3	ND	ND	0.00%	≤20
Thallium	EPA 6020	mg/L	0.0498	0.0500	99.6%	90-110%	950723-3	ND	ND	0.00%	≤20
Vanadium	EPA 6020	mg/L	0.0548	0.0500	110%	90-110%	950723-3	0.0263	0.0282	6.97%	≤20
Zinc	EPA 6010B	mg/L	5.14	5.00	103%	90-110%	950723-1	ND	ND	0.00%	≤20
Boron	EPA 6010B	mg/L	4.88	5.00	97.6%	90-110%	950723-1	1.46	1.42	2.78%	≤20
Iron	EPA 6010B	mg/L	4.91	5.00	98.2%	90-110%	950723-1	ND	ND	0.00%	≤20

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



TRUESDAIL LABORATORIES, INC.

Report Continued

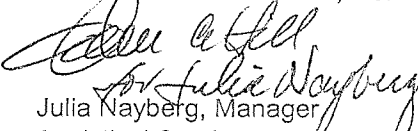
MATRIX SPIKE

Sample ID	Parameter	Method	Units	Sample Result	DF	Spike Level	Total Amt. of Spike	Theo. Value	MS Obs.	% Rec.	Accuracy Control Limits %
950723-1	Aluminum	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.79	107%	75-125%
950723-3	Antimony	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.199	95.5%	75-125%
950723-3	Arsenic	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.238	114%	75-125%
950723-1	Barium	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.56	98.5%	75-125%
950723-3	Beryllium	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.168	80.6%	75-125%
950723-3	Cadmium	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.232	111%	75-125%
950655-4	Chromium	EPA 6010B	mg/L	0.00523	1.04	0.0100	0.0104	0.0156	0.0148	92.0%	75-125%
950723-3	Cobalt	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.216	104%	75-125%
950723-3	Copper	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.198	95.0%	75-125%
950723-3	Lead	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.212	102%	75-125%
950723-1	Manganese	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.51	96.5%	75-125%
950723-3	Mercury	EPA 7470A	mg/L	0.00	1.00	0.00100	0.00100	0.00100	0.00105	105%	75-125%
950723-3	Molybdenum	EPA 6020	mg/L	0.0553	5.21	0.0400	0.208	0.264	0.308	121%	75-125%
950723-1	Nickel	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.38	91.5%	75-125%
950723-3	Selenium	EPA 6020	mg/L	0.0229	5.21	0.0400	0.208	0.231	0.268	118%	75-125%
950723-3	Silver	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.217	104%	75-125%
950723-3	Thallium	EPA 6020	mg/L	0.00	5.21	0.0400	0.208	0.208	0.212	102%	75-125%
950723-3	Vanadium	EPA 6020	mg/L	0.0263	5.21	0.0400	0.208	0.235	0.259	112%	75-125%
950723-1	Zinc	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.63	101%	75-125%
950723-1	Boron	EPA 6010B	mg/L	1.46	1.04	2.50	2.60	4.06	4.05	99.6%	75-125%
950723-1	Iron	EPA 6010B	mg/L	0.00	1.04	2.50	2.60	2.60	2.43	93.5%	75-125%

ND: Not detected, or below limit of detection.

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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



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

CHAIN OF CUSTODY RECORD

[IM3Plant-WDR-028]

950723

COC Number

TURNAROUND TIME

5 Days

DATE 1-11-06

PAGE 1 OF 1

COMPANY	CH2M HILL															COMMENTS	
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>Tom. Elmer</i>															NUMBER OF CONTAINERS	
SAMPLE I.D.	DATE	TIME	DESCRIPTION	CR6 (7199) Lab Filtered	Total Met (60108) Title 22	Total Met (60108) Title 22	Total Al, Ba, B, Cr, Cu, Pb, Mn, Mo, Ni, Fe, Zn, Sb, As	Metals (74704)	Specific Conductance (120.1)	pH (150.1)	TDS (160.1)	Anions (300) FI	Anions (300) FI, SO4, NO2, NO3	Ammonia (350.2)	Turbidity (180.1)		
-1 SC-100B-WDR-028	1-11-06	14:45	Groundwater	x	x	x	x	x	x	x	x	x	x	x	x		4
-2 SC-700B-WDR-028	1-11-06	14:30	Groundwater	x	x	x	x	x	x	x	x	x	x	x	x		4
-3 SC-701-WDR-028	1-11-06	14:15	Groundwater	x	x	x	x	x	x	x	x	x	x	x	x		4
																12	TOTAL NUMBER OF CONTAINERS

Rec'd 01/11/06
950723

PH = 2

RUSH!

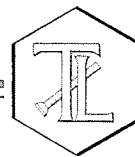
ALERT!!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD				SAMPLE CONDITIONS	
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time	RECEIVED	COOL <input type="checkbox"/> WARM <input type="checkbox"/> °F
<i>[Signature]</i>	BRIAN DODDS	DMT	1-11-06 14:00	CUSTODY SEALED	YES <input type="checkbox"/> NO <input type="checkbox"/>
Signature (Received)	Printed Name	Company/Agency	Date/Time	SPECIAL REQUIREMENTS:	
<i>[Signature]</i>	Shane B	TLI	1/11/06 19:45		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time		
Signature (Received)	Printed Name	Company/Agency	Date/Time		
Signature (Relinquished)	Printed Name	Company/Agency	Date/Time		
Signature (Received)	Printed Name	Company/Agency	Date/Time		

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

RECEIVED
JAN 13 2006
CH2M HILL
REDDING

CH2M HILL **PG&E Topock Project**

Laboratory Number: 950438

Received: January 4, 2006

IM3Plant-WDR-029

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: 950438

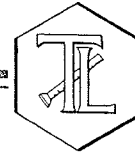
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chem Analysis/ Raw Data, Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

January 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 IM3 PLANT-WDR-029 PROJECT, GROUNDWATER
MONITORING.

TLI NO.: 950438

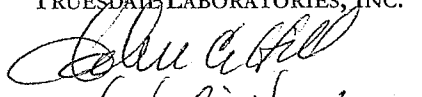
Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3 Plant-WDR-029 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this laboratory number is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.


The sample was received and delivered with the chain of custody on January 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.


Julia Nayberg
Manager, Analytical Services



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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950438
Date Received: January 4, 2006

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

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>SW 6010B</u> <i>Chromium Total mg/L</i>	<u>SW 7199</u> <i>Chromium Hexavalent mg/L</i>	<u>EPA 180.1</u> <i>Turbidity NTU</i>	<u>EPA 150.1</u> <i>pH Unit</i>	<u>EPA 120.1</u> <i>EC µmhos/cm</i>	<u>EPA 160.1</u> <i>TDS mg/L</i>
950438	SC-700B-WDR-029	12:10	ND	0.00028	ND	7.80	7510	4190

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.

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

Section 3.0

Final Reports

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.: 950438

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248
Prep. Batch: 010506A

Date: January 10, 2006
Collected: January 4, 2006
Received: January 4, 2006
Prep/ Analyzed: January 5, 2006
Analytical Batch: 010506A

Investigation:

Total Chromium by Inductively Coupled Argon Plasma
Using Method SW 6010B

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>
950438	SC-700B-WDR-029	mg/L	SW 6010B	11:07	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	950438	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	950438	0.00	1.04	0.0100	0.0104	0.00973	0.0104	93.6%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00979	0.0100	97.9%	90% - 110%	Yes
MRCVS#1	0.00981	0.0100	98.1%	90% - 110%	Yes
MRCVS#2	0.0103	0.0100	103%	90% - 110%	Yes
ICS	0.0104	0.0100	104%	80% - 120%	Yes
LCS	0.0100	0.0100	100%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

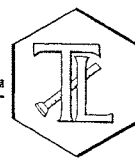
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950438

Date: January 10, 2006
Collected: January 4, 2006
Received: January 4, 2006
Prep/ Analyzed: January 4, 2006
Analytical Batch: 01CrH06B

Investigation:

Hexavalent Chromium by SW 7199

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
950438	SC-700B-WDR-029	12:10	19:07	mg/L	1.00	0.00020	0.00028

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950438	0.00028	0.00029	3.51%	≤ 20%	Yes

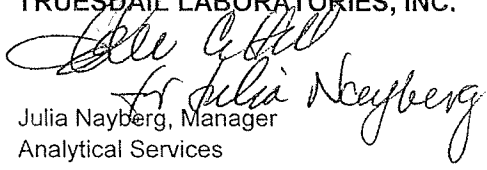
QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950438	0.00028	1.06	0.00100	0.00106	0.00134	0.00134	100%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00512	0.00500	102%	90% - 110%	Yes
MRCVS#1	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#2	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#3	0.0101	0.0100	101%	90% - 110%	Yes
LCS	0.00510	0.00500	102%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

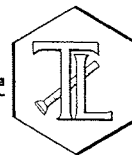
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950438

Date: January 10, 2006

Collected: January 4, 2006

Received: January 4, 2006

Prep/ Analyzed: January 5, 2006

Analytical Batch: 01TUC06E

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>
950438	SC-700B-WDR-029	12:10	NTU	1.00	0.100	ND

QA/QC Summary

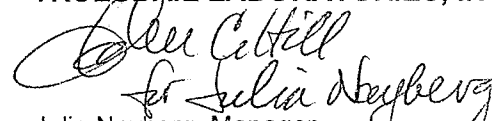
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950438	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.62	8.00	95.3%	90% - 110%	Yes
LCS	7.75	8.00	96.9%	90% - 110%	Yes
LCS	7.68	8.00	96.0%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 950438

Sample: One (1) Groundwater Sample

Date: January 10, 2006

Project Name: PG&E Topock Project

Collected: January 4, 2006

Project No.: 334168.IM.04.00

Received: January 4, 2006

P.O. No.: 911248

Prep/ Analyzed: January 5, 2006

Analytical Batch: 01PH06E

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>
950438	SC-700B-WDR-029	12:10	07:25	pH Units	0.0140	0.100	7.80

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	950443-4	7.75	7.76	0.01	± 0.100 Units	Yes

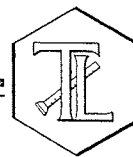
QC Std I.D.	Measured Concentration	Theoretical Concentration	Difference (Units)	Acceptance Limits	QC Within Control
LCS	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #1	7.00	7.00	0.00	± 0.100 Units	Yes
LCS #2	7.01	7.00	0.01	± 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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.: 950438

Sample: One (1) Groundwater Sample

Date: January 10, 2006

Project Name: PG&E Topock Project

Collected: January 4, 2006

Project No.: 334168.IM.04.00

Received: January 4, 2006

P.O. No.: 911248

Prep/ Analyzed: January 5, 2006

Analytical Batch: 01EC06E

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>
950438	SC-700B-WDR-029	µmhos/cm	EPA 120.1	10.0	20.0	7510

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950443-1	976	977	0.10%	≤ 10%	Yes
QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control	
CCS	673	706	95.3%	90% - 110%	Yes	
CVS#1	928	996	93.2%	90% - 110%	Yes	
CVS#2	932	996	93.6%	90% - 110%	Yes	
LCS	672	706	95.2%	90% - 110%	Yes	
LCSD	673	706	95.3%	90% - 110%	Yes	

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

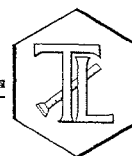
Julia Nayberg
Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Laboratory No.: 950438

Date: January 10, 2006
Collected: January 4, 2006
Received: January 4, 2006
Prep/ Analyzed: January 5, 2006
Analytical Batch: 01TDS06C

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>
950438	SC-700B-WDR-029	mg/L	EPA 160.1	250	4190

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	950270	4190	4200	0.12%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	499	500	100%	90% - 110%	Yes

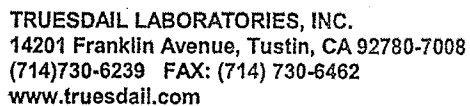
ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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



[IM3Plant-WDR-029]

COC Number

TURNAROUND TIME

5 Days

DATE _____

PAGE 1 OF 1

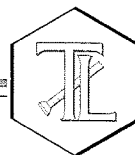
RUSH

ALERT!!
Level III QC

CHAIN OF CUSTODY SIGNATURE RECORD					SAMPLE CONDITIONS	
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	RECEIVED	COOL <input type="checkbox"/>	WARM <input type="checkbox"/> °F
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	SPECIAL REQUIREMENTS: <div style="border: 1px solid black; padding: 10px; text-align: center;"> For Sample Conditions See Form Attached </div>		
Signature (Received)	Printed Name	Company/ Agency	Date/ Time			
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time			
Signature (Received)	Printed Name	Company/ Agency	Date/ Time			

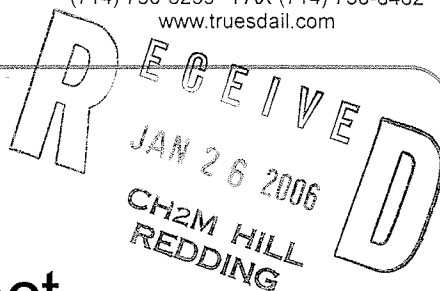
TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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



CH2M HILL PG&E Topock Project

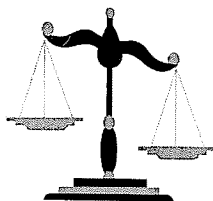
Laboratory Number: 950936

Received: January 19, 2006

IM3Plant-WDR-030

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: 950936

<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



Established 1931

January 25, 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-030 PROJECT, GROUNDWATER MONITORING.

TLI No.: 950936

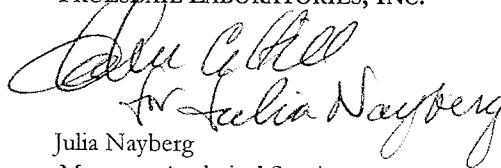
Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-030 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this laboratory number is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.


The sample was received and delivered with the chain of custody on January 19, 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.


Julia Nayberg
Manager, Analytical Services


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

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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.: 950936

Date Received: January 19, 2006

Date Collected: January 18, 2006

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>SW 6010B</u> <i>Chromium Total mg/L</i>	<u>SW 7199</u> <i>Chromium Hexavalent mg/L</i>	<u>EPA 180.1</u> <i>Turbidity NTU</i>	<u>EPA 150.1</u> <i>pH Unit</i>	<u>EPA 120.1</u> <i>EC µmhos/cm</i>	<u>EPA 160.1</u> <i>TDS mg/L</i>
950936	SC-700B-WDR-030	14:20	0.0107	ND	ND	7.80	7460	4420

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.

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

Section 3.0

Final Reports

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950936

Date: January 25, 2006
Collected: January 18, 2006
Received: January 19, 2006
Prep/ Analyzed: January 19, 2006
Analytical Batch: 01CrH06Q

Investigation:

Hexavalent Chromium by SW 7199

Analytical Results Hexavalent Chromium

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
950936	SC-700B-WDR-030	14:20	12:28	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		950936	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	950936	0.00	5.00	0.00100	0.00500	0.00514	0.00500	103%	75-125%	Yes
MSD	950936	0.00	5.00	0.00100	0.00500	0.00518	0.00500	104%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00484	0.00500	96.8%	90% - 110%	Yes
MRCVS#1	0.00991	0.0100	99.1%	90% - 110%	Yes
MRCVS#2	0.00994	0.0100	99.4%	90% - 110%	Yes
MRCVS#3	0.00985	0.0100	98.5%	90% - 110%	Yes
LCS	0.00498	0.00500	99.6%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

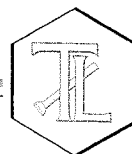
Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Julia Nayberg
for *Julia Nayberg*
Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 950936

Sample: One (1) Groundwater Sample
Project Name: PG&E Topock Project
Project No.: 334168.IM.04.00
P.O. No.: 911248
Prep. Batch: 012406A

Date: January 25, 2006
Collected: January 18, 2006
Received: January 19, 2006
Prep/ Analyzed: January 24, 2006
Analytical Batch: 012406A

Investigation:

**Total Chromium by Inductively Coupled Argon Plasma
Using Method SW 6010B**

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>
950936	SC-700B-WDR-030	mg/L	SW 6010B	10:34	1.04	0.0010	0.0107

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950937-1	ND	ND	0.00%	≤20%	Yes

QC Std I.D.	Lab Number	Conc. of unspiked sample	Dilution Factor	Added Spike Conc.	MS Amount	Measured Conc. of spiked sample	Theoretical Conc. of spiked sample	MS% Recovery	Acceptance limits	QC Within Control
MS	950937-1	0.00	1.04	0.0100	0.0104	0.00961	0.0104	92.4%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00951	0.0100	95.1%	90% - 110%	Yes
MRCVS#1	0.00972	0.0100	97.2%	90% - 110%	Yes
MRCVS#2	0.00965	0.0100	96.5%	90% - 110%	Yes
ICS	0.0104	0.0100	104%	80% - 120%	Yes
LCS	0.00950	0.0100	95.0%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Julia A. Hill
Julia Nayberg
Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

REPORT

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

Laboratory No.: 950936

Date: January 25, 2006

Collected: January 18, 2006

Received: January 19, 2006

Prep/ Analyzed: January 19, 2006

Analytical Batch: 01EC06Q

Investigation:

Specific Conductivity by EPA 120.1

Analytical Results Specific Conductivity

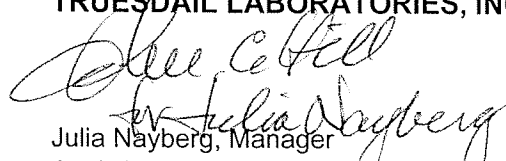
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
950936	SC-700B-WDR-030	µmhos/cm	EPA 120.1	10.0	20.0	7460

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950950-1	482	484	0.41%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	672	706	95.2%	90% - 110%	Yes
CVS#1	923	996	92.7%	90% - 110%	Yes
CVS#2	925	996	92.9%	90% - 110%	Yes
LCS	678	706	96.0%	90% - 110%	Yes
LCSD	674	706	95.5%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 950936

Date: January 25, 2006

Collected: January 18, 2006

Received: January 19, 2006

Prep/ Analyzed: January 19, 2006

Analytical Batch: 01TUC06Q

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>
950936	SC-700B-WDR-030	14:20	NTU	1.00	0.100	ND

QA/QC Summary

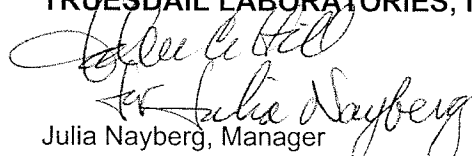
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	950851-2	ND	ND	0.00%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.69	8.00	96.1%	90% - 110%	Yes
LCS	7.60	8.00	95.0%	90% - 110%	Yes
LCS	7.70	8.00	96.3%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931



REPORT

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

Attention: Shawn Duffy

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

Laboratory No.: 950936

Date: January 25, 2006

Collected: January 18, 2006

Received: January 19, 2006

Prep/ Analyzed: January 5, 2006

Analytical Batch: 01PH06U

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

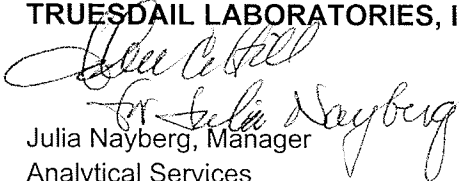
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
950936	SC-700B-WDR-030	14:20	09:20	pH Units	0.0140	0.100	7.80

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance limits	QC Within Control
Duplicate	950935-1	7.32	7.32	0.00	± 0.100 Units	Yes

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

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931



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

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

Laboratory No.: 950936

Date: January 25, 2006

Collected: January 18, 2006

Received: January 19, 2006

Prep/ Analyzed: January 19, 2006

Analytical Batch: 01TDS06H

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>
950936	SC-700B-WDR-030	mg/L	EPA 160.1	250	4420

QA/QC Summary

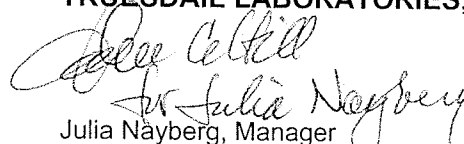
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	950936	4420	4360	0.68%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	538	500	108%	90% - 110%	Yes

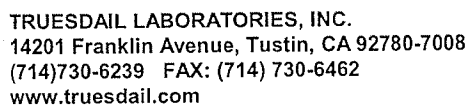
ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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



CHAIN OF CUSTODY RECORD
[IM3Plant-WDR-030]

COC Number _____

TURNAROUND TIME 5 Days

DATE _____ PAGE 1 OF 1

RUSH

For Sample Conditions
See Form Attached

ALERT!!

Level III QC

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

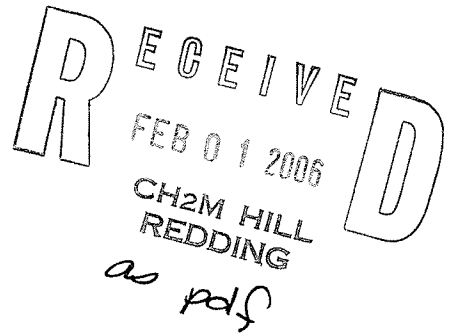


Table of Contents
TLI Laboratory Data Package
For Laboratory Number: 951145

<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



Established 1931

January 31, 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-031 PROJECT GROUNDWATER
MONITORING,
TLI No.: 951145

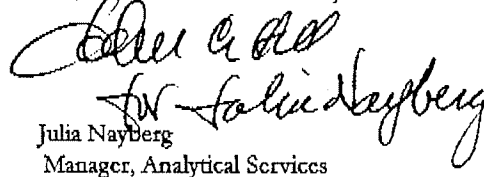
Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-WDR-031 project groundwater monitoring for Hexavalent and Total Chromium, Turbidity, Specific Conductivity, pH, and Total Dissolved Solids. A summary table for this sample delivery group is included in Section 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 sample was received and delivered with the chain of custody on January 25, 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.


Julia Nayberg
Manager, Analytical Services



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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

Section 2.0

Summary Table of Final Results

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

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

Laboratory No.: 951145
Date Received: January 25, 2006

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

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Time</u>	<u>SW 6010B</u> <i>Chromium Total</i> <i>mg/L</i>	<u>SW 7199</u> <i>Chromium Hexavalent</i> <i>mg/L</i>	<u>EPA 180.1</u> <i>Turbidity</i> <i>NTU</i>	<u>EPA 150.1</u> <i>pH</i> <i>Unit</i>	<u>EPA 120.1</u> <i>EC</i> <i>µmhos/cm</i>	<u>EPA 160.1</u> <i>TDS</i> <i>mg/L</i>
951145	SC-700B-WDR-031	12:05	ND	ND	ND	7.89	7900	4400

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.

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

Section 3.0

Final Reports

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

Laboratory No.: 951145

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

Date: January 31, 2006
Collected: January 25, 2006
Received: January 25, 2006
Prep/ Analyzed: January 26, 2006
Analytical Batch: 01CrH06V

Investigation:

Hexavalent Chromium by SW 7199

Analytical Results Hexavalent Chromium

TLI I.D.	Field I.D.	Sample Time	Run Time	Units	DF	RL	Results
951145	SC-700B-WDR-031	12:05	07:22	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	951141-4	0.0181	0.0179	1.11%	≤ 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	951145	0.00	5.00	0.00100	0.00500	0.00475	0.00500	95.0%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCSS	0.00507	0.00500	101%	90% - 110%	Yes
MRCVS#1	0.0101	0.0100	101%	90% - 110%	Yes
MRCVS#2	0.0100	0.0100	100%	90% - 110%	Yes
MRCVS#3	0.0100	0.0100	100%	90% - 110%	Yes
LCS	0.00505	0.00500	101%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Julia Mayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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: 013106A

REPORT

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

Laboratory No.: 951145

Date: January 31, 2006
Collected: January 25, 2006
Received: January 25, 2006
Prep/ Analyzed: January 31, 2006
Analytical Batch: 013106A

Investigation:

**Total Chromium by Inductively Coupled Argon Plasma
Using Method SW 6010B**

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>
951145	SC-700B-WDR-031	mg/L	SW 6010B	11:38	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	951145	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	9501145	0.00	1.04	0.0150	0.0156	0.0132	0.0156	84.6%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	0.00989	0.0100	98.9%	90% - 110%	Yes
MRCVS#1	0.00942	0.0100	94.2%	90% - 110%	Yes
ICS	0.0103	0.0100	103%	80% - 120%	Yes
LCS	0.00960	0.0100	96.0%	90% - 110%	Yes

ND: Not detected at reporting limit

DF: Dilution Factor

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 951145

Date: January 31, 2006

Collected: January 25, 2006

Received: January 25, 2006

Prep/ Analyzed: January 26, 2006

Analytical Batch: 01TUC06W

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>
951145	SC-700B-WDR-031	12:05	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	951151-2	0.118	0.120	1.68%	≤ 20%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS	7.80	8.00	97.5%	90% - 110%	Yes
LCS	7.82	8.00	97.8%	90% - 110%	Yes
LCS	7.80	8.00	97.5%	90% - 110%	Yes

ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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

REPORT

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

Laboratory No.: 951145

Date: January 31, 2006

Collected: January 25, 2006

Received: January 25, 2006

Prep/ Analyzed: January 26, 2006

Analytical Batch: 01PH06Z

Investigation:

pH by EPA 150.1

Analytical Results pH

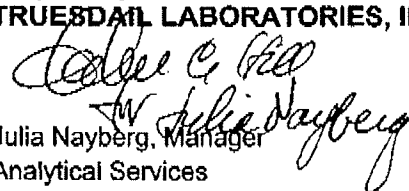
<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Sample Time</u>	<u>Run Time</u>	<u>Units</u>	<u>MDL</u>	<u>RL</u>	<u>Results</u>
951145	SC-700B-WDR-031	12:05	07:05	pH Units	0.0570	2.00	7.89

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Difference (Units)	Acceptance Limits	QC Within Control
Duplicate	951145	7.89	7.90	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	7.01	7.00	0.01	+ 0.100 Units	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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

Laboratory No.: 951145
Date: January 31, 2006
Collected: January 25, 2006
Received: January 25, 2006
Prep/ Analyzed: January 27, 2006
Analytical Batch: 01EC06S

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>
951145	SC-700B-WDR-031	µmhos/cm	EPA 120.1	10.0	20.0	7900

QA/QC Summary

QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control
Duplicate	951179-1	458	461	0.65%	≤ 10%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
CCS	674	706	95.5%	90% - 110%	Yes
CVS#1	922	998	92.4%	90% - 110%	Yes
LCS	673	706	95.3%	90% - 110%	Yes
LCSD	676	706	95.8%	90% - 110%	Yes

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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

TRUESDAIL LABORATORIES, INC.

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.: 951145

Sample: One (1) Groundwater Sample

Date: January 31, 2006

Project Name: PG&E Topock Project

Collected: January 25, 2006

Project No.: 334168.IM.04.00

Received: January 25, 2006

P.O. No.: 911248

Prep/ Analyzed: January 26, 2006

Analytical Batch: 01TDS06J

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>
951145	SC-700B-WDR-031	mg/L	EPA 160.1	250	4400

QA/QC Summary

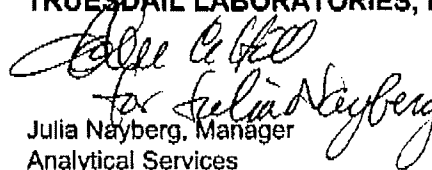
QC STD I.D.	Laboratory Number	Concentration	Duplicate Concentration	Percent Difference	Acceptance limits	QC Within Control
Duplicate	951145	4400	4410	0.11%	≤ 5%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
LCS 1	498	500	99.6%	90% - 110%	Yes
LCS 2	492	500	98.4%	90% - 110%	Yes

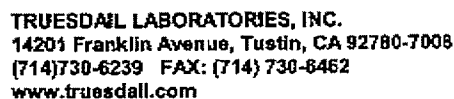
ND: Below the reporting limit (Not Detected).

RL: Reporting Limit.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.


Julia Nayberg, Manager
Analytical Services

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



[IM3Plant-WDR-031]


COC Number

TURNAROUND TIME

5 Days

DATE _____

PAGE 1 OF 1

COMPANY		CH2M HILL												COMMENTS	
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)															
SAMPLE I.D.		DATE	TIME	DESCRIPTION	CR6 (71.99) Lab Filtered	Total Met (60108) Total Chromium	Specific Conductance (120.1)	pH (150.1)	TDS (180.1)	Turbidity (180.1)					NUMBER OF CONTAINERS
SC-700B-WDR-031		1-25-06	12105	Groundwater	x	x	x	x	x	x					3
															3
															3

Rec'd 01/25/06
5250 951145

For Sam
See

pH = 7

TOTAL NUMBER OF CONTAINERS

PUSH

ALERT!!
Level III QC

For Sample Conditions
See Form Attached

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

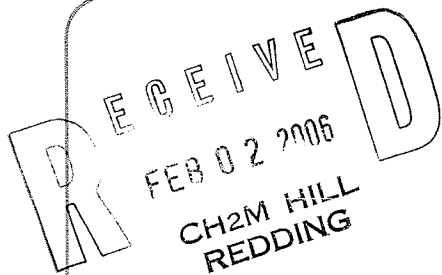
TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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



CH2M HILL PG&E Topock Project

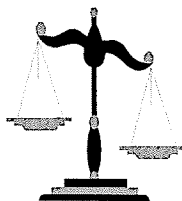
Laboratory Number: 951144

Received: January 25, 2006

IM3Plant-15

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: 951144

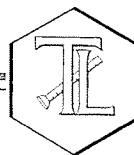
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chemistry Raw Data, Standard, Quality Control and Chain of Custody Records	4.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

January 31, 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-15 PROJECT GROUNDWATER
MONITORING, TLI No.: 951144

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-15 project groundwater monitoring for Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

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

No violations or nonconformance actions occurred for this data package.

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

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

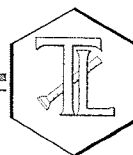
Julia Nayberg
Manager, Analytical Services

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



Established 1931

Client: CH2M HILL

155 Grand Ave. Suite 1000
Oakland, CA 94612

Attention: Shawn Duffy

Sample: Five (5) 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.: 951144

Date: January 30, 2006

Collected: January 19-25, 2006

Received: January 25, 2006

ANALYST LIST

METHOD	PARAMETER	ANALYST
EPA 160.1	Total Dissolved Solids	Emilia Haley

Section 2.0

Summary Table of Final Results

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

REPORT

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

Laboratory No.: 951144
Date Received: January 25, 2006

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

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Date & Time</u>	<u>Units</u>	<u>EPA 160.1</u> <u>TDS</u>
951144-1	SC-700B-1-19-06	01/19/06 15:00	mg/L	4070
951144-2	SC-700B-1-20-06	01/20/06 16:00	mg/L	4390
951144-3	SC-700B-1-23-06	01/23/06 15:15	mg/L	4350
951144-4	SC-700B-1-24-06	01/24/06 15:40	mg/L	4370
951144-5	SC-700B-1-25-06	01/25/06 12:00	mg/L	4420

ND: Non Detected (below the 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.

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



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

CHAIN OF CUSTODY RECORD

[IM3Plant15]

COC Number

10 Days

TURNAROUND TIME

DATE 01/25/06

PAGE 1 OF 1

COMPANY CH2M HILL

PROJECT NAME PG&E Topock IM3Plant09

PHONE (510) 251-2888 FAX (510) 622-7086

ADDRESS 155 Grand Ave Ste 1000
Oakland, CA 94612

P.O. NUMBER 911248

SAMPLERS (SIGNATURE)

SAMPLE I.D. DATE TIME DESCRIPTION

SC-700B-1-19-06 01/19/06 1500

SC-700B-1-20-06 01/20/06 1600

SC-700B-1-23-06 01/23/06 1515

SC-700B-1-24-06 01/24/06 1540

SC-700B-1-25-06 01/25/06 1200

TDS (160.1)

X

X

X

X

X

ALERT!!
Level III QC

NUMBER OF CONTAINERS

Rec'd 01/25/06

951144

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Shawn Duffy	CH2M HILL	1/25/06 1505
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
<i>[Signature]</i>	Shawn Duffy	CH2M HILL	1/25/06 1920
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

SAMPLE CONDITIONS

RECEIVED ☐ COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS:

This sample is for process characterization and does not require QC be analyzed on this sample. No QC analysis should be charged to this sample set.

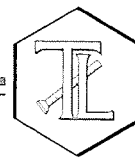


Sample Integrity & Analysis Discrepancy Form

Client: CH2M HillLab # 951144Date Delivered: 1/25/06 Time: 19:20 By: ☐ Mail ☐ Field Service ☒ Client1. Was a Chain of Custody received and signed? ☒ Yes ☐ No ☐ N/A2. Does Customer require an acknowledgement of the COC? ☐ Yes ☐ No ☒ N/A3. Are there any special requirements or notes on the COC? ☐ Yes ☐ No ☒ N/A4. If a letter was sent with the COC, does it match the COC? ☐ Yes ☐ No ☒ N/A5. Were all requested analyses understood and acceptable? ☒ Yes ☐ No ☐ N/A6. Were samples received in a chilled condition?
Temperature (if yes)? 4°C ☒ Yes ☐ No ☐ N/A7. Were samples received intact
(i.e. broken bottles, leaks, air bubbles, etc.)? ☒ Yes ☐ No ☐ N/A8. Were sample custody seals intact? ☐ Yes ☐ No ☒ N/A9. Does the number of samples received agree with COC? ☒ Yes ☐ No ☐ N/A10. Did sample labels correspond with the client ID's? ☒ Yes ☐ No ☐ N/A11. Did sample labels indicate proper preservation?
Preserved (if yes) by: ☐ Truesdail ☐ Client ☐ Yes ☐ No ☒ N/A12. Were samples pH checked? pH = See C.O.C. ☒ Yes ☐ No ☐ N/A13. Were all analyses within holding time at time of receipt?
If not, notify Project Manager. ☒ Yes ☐ No ☐ N/A14. Have Project due dates been checked and accepted?
Turn Around Time (TAT): ☐ RUSH ☒ Std ☒ Yes ☐ No ☐ N/A15. **Sample Matrix:** ☐ Liquid ☐ Drinking Water ☒ Ground Water ☐ Waste Water
☐ Sludge ☐ Soil ☐ Wipe ☐ Paint ☐ Solid ☐ Other _____

16. Comments: _____

17. Sample Check-In completed by Truesdail Log-In/Receiving. Shane Blahel



CH2M HILL PG&E Topock Project

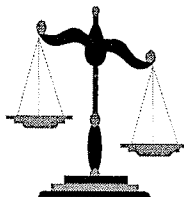
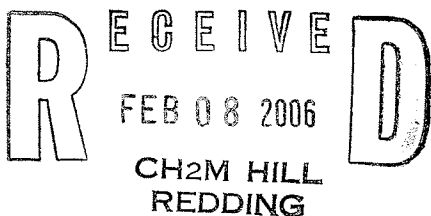
Laboratory Number: 951369

Received: February 1, 2006

IM3Plant-16

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: 951369

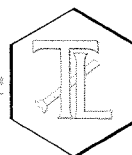
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Reports	3.0
Wet Chemistry Raw Data, Standard, Quality Control and Chain of Custody Records	4.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

February 7, 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-16 PROJECT GROUNDWATER
MONITORING, TLI No.: 951369

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3Plant-16 project groundwater monitoring for Total Dissolved Solids. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, quality control data and chain of custody forms for sampling period are included in Sections 3 and 4. Analytical raw data have been included under Section 5.

The samples were received and delivered with the chain of custody on February 1, 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
Senior Chemist, 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



Established 1931

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: Five (5) Groundwater Samples

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

Laboratory No.: 951369

Date: February 7, 2006

Collected: 01/26/-02/01/06

Received: February 1, 2006

ANALYST LIST

METHOD	PARAMETER	ANALYST
E PA 160.1	Total Dissolved Solids	Emilia Haley

Section 2.0

Summary Table of Final Results

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

REPORT

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

Laboratory No.: 951369

Date Received: February 1, 2006

Project Name: PG&E Topock Project

Project No.: 334168.IM.04.00

P.O. No.: 911248

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>Sample Date & Time</u>	<u>Units</u>	<u>EPA 160.1</u> <i>TDS</i>
951369-1	SC-700B-1-26-06	01/26/06 12:00	mg/L	4230
951369-2	SC-700B-1-27-06	01/27/06 12:30	mg/L	4170
951369-3	SC-700B-1-28-06	01/28/06 12:00	mg/L	4230
951369-4	SC-700B-1-29-06	01/29/06 12:00	mg/L	4170
951369-5	SC-700B-2-1-06	02/01/06 12:15	mg/L	4310

ND: Non Detected (below the 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.

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



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

CHAIN OF CUSTODY RECORD

Im3 plant 16
951369

TURNAROUND TIME 5 Day

DATE _____ PAGE _____ OF _____

METHODS

COMPANY Cham Hill
PROJECT NAME PST-70608
PHONE 510 251-2888 FAX 510 622-7086
ADDRESS 155 Grand Ave Ste 1000
Oxland CA 94612
P.O. NUMBER _____
SAMPLERS (SIGNATURE) Birdelle Venous others

SAMPLE I.D.	DATE	TIME	DESCRIPTION
SC-7005-126-06	1-26-06	12:00	
SC-7003-127-06	1-27-06	12:30	
SC-7005-128-06	1-28-06	12:00	
SC-7003-129-06	1-29-06	12:00	
SC-7003-130-06	2-1-06	12:15	

RUSH

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<u>Brian Adams</u>	Printed Name	<u>Brian Adams</u>	Company/Agency	<u>OMI</u>	Date/Time	<u>2/1/06</u> <u>14:40</u>
Signature (Received)	<u>[Signature]</u>	Printed Name	<u>[Name]</u>	Company/Agency	<u>TL</u>	Date/Time	<u>2/1/06</u> <u>19:30</u>
Signature (Relinquished)	<u>[Signature]</u>	Printed Name	<u>[Name]</u>	Company/Agency	<u>EXECUTIVE</u>	Date/Time	<u>2/1/06</u>
Signature (Received)	<u>[Signature]</u>	Printed Name	<u>[Name]</u>	Company/Agency		Date/Time	
Signature (Relinquished)		Printed Name		Company/Agency		Date/Time	
Signature (Received)		Printed Name		Company/Agency		Date/Time	
Signature (Relinquished)		Printed Name		Company/Agency		Date/Time	
Signature (Received)		Printed Name		Company/Agency		Date/Time	
Signature (Relinquished)		Printed Name		Company/Agency		Date/Time	
Signature (Received)		Printed Name		Company/Agency		Date/Time	

COMMENTS

ALERT!
Level III QC

NUMBER OF CONTAINERS	RECEIVED	COOL	WARM	CUSTODY SEALED	YES	NO	SPECIAL REQUIREMENTS
5							This sample is for spec. process chemistry and does not require QC

Rec'd 02/01/06
951369

For Sample Conditions
See Form Attached

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS

RECEIVED

CUSTODY SEALED

SPECIAL REQUIREMENTS



Client: CH2M HILL

Lab # 951369

Date Delivered: 2 / / 06 Time: 1930 By: ☐ Mail ☐ Field Service ☒ Client

- | | | | | |
|-----|--|---|-----------------------------|---|
| 1. | Was a Chain of Custody received and signed? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2. | Does Customer require an acknowledgement of the COC? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 3. | Are there any special requirements or notes on the COC? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 4. | If a letter was sent with the COC, does it match the COC? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 5. | Were all requested analyses understood and acceptable? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 6. | Were samples received in a chilled condition?
Temperature (if yes)? <u>4°C</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 7. | Were samples received intact
(i.e. broken bottles, leaks, air bubbles, etc.)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 8. | Were sample custody seals intact? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 9. | Does the number of samples received agree with COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 10. | Did sample labels correspond with the client ID's? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 11. | Did sample labels indicate proper preservation?
Preserved (if yes) by: <input type="checkbox"/> Truesdail <input type="checkbox"/> Client | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 12. | Were samples pH checked? pH = <u>See COC</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 13. | Were all analyses within holding time at time of receipt?
If not, notify Project Manager. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 14. | Have Project due dates been checked and accepted?
Turn Around Time (TAT): <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> Std | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 15. | Sample Matrix: <input type="checkbox"/> Liquid <input type="checkbox"/> Drinking Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Waste Water
<input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Other <u>water</u> | | | |
| 16. | Comments: _____ | | | |
| 17. | Sample Check-In completed by Truesdail Log-In/Receiving: <u>Brown</u> | | | |



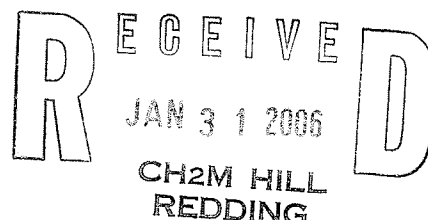
STL

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

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

January 26, 2006

STL LOT NUMBER: **E6A120369**
PO/CONTRACT: 334168.IM.04.00



Shawn Duffy
CH2M Hill Inc
2525 Air Park
Redding, CA 96001

Dear Mr. Duffy,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on January 12, 2006. This sample is associated with your PG&E TOPOCK GWM project.

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

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

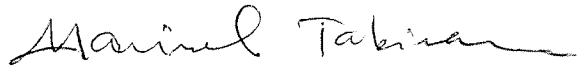
Preliminary results were sent via facsimile on January 19, 2006.

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

This report contains 000186 pages.

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

Sincerely,

A handwritten signature in black ink, reading "Marisol Tabirara". The signature is fluid and cursive, with the first name "Marisol" and last name "Tabirara" clearly distinguishable.

Marisol Tabirara
Project Manager

cc: Project File

000002



$$Temp - 2.1 - 0.8 = 6.3$$

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST

Date: 1/12/06

Single Cooler Only

LIMS Lot #: E6A120364

Quote #: 58027

Client Name: CH2M HILL

Project: PG+E TOPOG GWM

Received by: SG

Date/Time Received: 1/12/06 12:45

Delivered by: ☐ Client ☒ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

***** Initial / Date

Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None SG 1/12/06

Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None

Custody Seal #(s): N/A ☒ No Seal #

Sampler Signature on COC ☒ Yes ☐ No ☐ N/A

IR Gun # A Correction Factor -.8 °C IR passed daily verification ☒ Yes ☐ No

Temperature - BLANK 7.1 °C -.8 CF = 6.3 °C Cooler #1 ID N/A

Temperature - COOLER (°C °C °C °C) = avg °C -.8 CF = °C

Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A

Sample Container(s): ☒ STL-LA ☐ Client

pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☒ N/A

Anomalies: ☐ No ☒ Yes - complete CUR and Create NCM

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☐ Yes ☒ No

Labeled by: SG

Turn Around Time: ☐ RUSH-24HR ☐ RUSH-48HR ☐ RUSH-72HR ☒ NORMAL SG 1/12/06

***** LEAVE NO BLANK SPACES ; USE N/A *****

Headspace Anomaly					
Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm

LIMS Lot # E67120369

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1													
VOAH														
40: (G)	6*													
<div style="position: relative; height: 150px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(45deg);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(-45deg);"></div> </div>														
<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(45deg);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(-45deg);"></div> </div>														

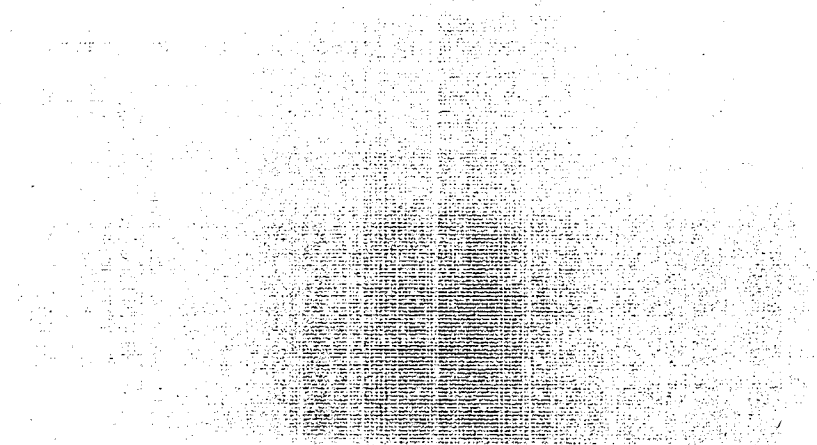
H: HCL, S: H2SO4, N: HNO3, V: VOA, SL: Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
 AGB: Amber Glass Bottle, n/f:l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form		Anomalies <input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A 8/12/06
<ul style="list-style-type: none"> ▪ COOLERS <ul style="list-style-type: none"> <input type="checkbox"/> Not Received (received COC only) <input type="checkbox"/> Leaking <input type="checkbox"/> Other: ▪ TEMPERATURE (SPECS 4 ± 2°C) <ul style="list-style-type: none"> <input type="checkbox"/> Cooler Temp(s) <input checked="" type="checkbox"/> Temperature Blank(s) ▪ CONTAINERS <ul style="list-style-type: none"> <input type="checkbox"/> Leaking <input type="checkbox"/> Voa Vials with Bubbles > 6mm <input type="checkbox"/> Broken <input type="checkbox"/> Extra <input type="checkbox"/> Without Labels <input type="checkbox"/> Other: ▪ SAMPLES <ul style="list-style-type: none"> <input type="checkbox"/> Samples NOT RECEIVED but listed on COC <input type="checkbox"/> Samples received but NOT LISTED on COC <input type="checkbox"/> Logged based on Label Information <input type="checkbox"/> Logged based on info from other samples on COC <input type="checkbox"/> Logged according to Work Plan <input type="checkbox"/> Logged on HOLD UNTIL FURTHER NOTICE 	<ul style="list-style-type: none"> ▪ CUSTODY SEALS (COOLER(S) CONTAINER(S)) <ul style="list-style-type: none"> <input type="checkbox"/> None <input type="checkbox"/> None <input type="checkbox"/> Not Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Other <input type="checkbox"/> Other ▪ CHAIN OF CUSTODY (COC) <ul style="list-style-type: none"> <input type="checkbox"/> Not relinquished by Client; No date/time relinquished <input type="checkbox"/> Incomplete information provided <input type="checkbox"/> Other <input type="checkbox"/> COC not received – notify PM ▪ LABELS <ul style="list-style-type: none"> <input type="checkbox"/> Not the same ID/info as in COC <input type="checkbox"/> Incomplete Information <input type="checkbox"/> Markings/Info illegible <input type="checkbox"/> Torn <input type="checkbox"/> Will be noted on COC--Client to send samples with new COC <input type="checkbox"/> Misabeled as to tests, preservatives, etc. <input type="checkbox"/> Holding time expired – list sample ID and test <input type="checkbox"/> Improper container used <input type="checkbox"/> Not preserved/Improper preservative used <input type="checkbox"/> Improper pH _____ Lab to preserve sample and document <input type="checkbox"/> Insufficient quantities for analysis <input type="checkbox"/> Other 	
Comments: <u>TEMPERATURE</u> <u>Temperature was 6.3°C upon arrival</u> <u>11/26/06</u> <u>* Returned Containers 4/6, 5/6, 6/6 to TRUESDAN</u> <u>AT THEIR REQUEST 1/13/06 8:45am</u> <u>kept 1/6, 2/6, 3/6 Cancelled per MILA 1/13/06 JR</u>		
<input type="checkbox"/> Corrective Action Implemented: <input type="checkbox"/> Client Informed: verbally on _____ By: _____ <input type="checkbox"/> In writing on _____ By: _____ <input type="checkbox"/> Sample(s) on hold until: _____ <input type="checkbox"/> Sample(s) processed "as is."		
Logged by/Date: <u>1-13-06</u> <input type="checkbox"/> Logged in by other STL <input type="checkbox"/> PM Review/Date: <u>1/13/06</u>		



STL

Analytical Report



ANALYTICAL REPORT

PG&E TOPOCK GWM

Lot #: E6A120369

Shawn Duffy

CH2M Hill Inc

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

January 19, 2006

EXECUTIVE SUMMARY - Detection Highlights

E6A120369

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SC-SLUDGE-WDR- 01/11/06 14:25 001				
Mercury	2.4	0.68	mg/kg	SW846 7471A
Barium	95	68	mg/kg	SW846 6010B
Chromium	35000	34	mg/kg	SW846 6010B
Copper	100	84	mg/kg	SW846 6010B
Percent Moisture	85	0.10	%	MCAWW 160.3 MOD
Hexavalent Chromium	230	14	mg/kg	SW846 7199

METHODS SUMMARY

E6A120369

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Hexavalent Chromium	SW846 7199	
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.

SAMPLE SUMMARY

E6A120369

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
HVLT6	001	SC-SLUDGE-WDR-		01/11/06	14:25

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 filter 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-

TOTAL Metals

Lot-Sample #...: E6A120369-001

Matrix.....: SO

Date Sampled...: 01/11/06 14:25 Date Received...: 01/12/06 12:45

% Moisture.....: 85

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6016371						
Mercury	2.4	0.68	mg/kg	SW846 7471A	01/17/06	HVLT61AW
		Dilution Factor: 1		Analysis Time...: 14:16	Analyst ID.....: 000023	
		Instrument ID...: M04		MS Run #.....: 6016267		
Prep Batch #...: 6017384						
Arsenic	ND G	34	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AD
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Antimony	ND G	200	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AE
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Barium	95	68	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AF
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Cadmium	ND G	17	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AG
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Chromium	35000	34	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AH
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Beryllium	ND G	17	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AJ
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Lead	ND G	17	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AK
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Selenium	ND G	17	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AL
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		

(Continued on next page)

CH2M Hill Inc

Client Sample ID: SC-SLUDGE-WDR-

TOTAL Metals

Lot-Sample #...: E6A120369-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND G	34	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AM
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Cobalt	ND G	170	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AN
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Copper	100	84	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AP
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Molybdenum	ND G	140	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AQ
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Nickel	ND G	140	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AR
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Thallium	ND G	34	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AT
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Vanadium	ND G	170	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AU
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		
Zinc	ND G	68	mg/kg	SW846 6010B	01/17-01/18/06	HVLT61AV
		Dilution Factor: 5		Analysis Time...: 15:27	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 6017226		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CH2M Hill Inc

Client Sample ID: SC-SLUDGE-WDR-

General Chemistry

Lot-Sample #...: E6A120369-001 Work Order #...: HVL76 Matrix.....: SO
 Date Sampled...: 01/11/06 14:25 Date Received...: 01/12/06 12:45
 % Moisture.....: 85

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	230	14	mg/kg	SW846 7199	01/16-01/18/06	6013558
Dilution Factor: 5 Analysis Time...: 15:47 Analyst ID.....: 000022 Instrument ID...: W18 MS Run #.....: 6016137						
Percent Moisture	85	0.10	%	MCAWW 160.3 MOD	01/16-01/17/06	6016409
Dilution Factor: 1 Analysis Time...: 12:00 Analyst ID.....: 0000647 Instrument ID...: W15 MS Run #.....: 6016284						

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

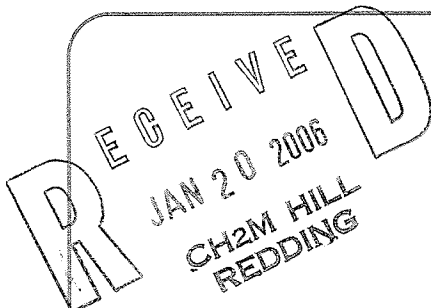
TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

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



CH2M HILL PG&E Topock Project

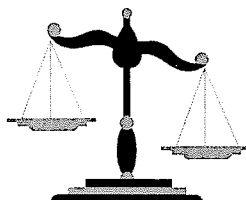
Laboratory Number: 950722

Received: January 11, 2006

Sludge Sample-4

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: 950722

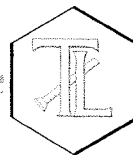
<u>ITEM</u>	<u>Section</u>
Case Narrative	1.0
Summary Table of Final Results	2.0
Final Report	3.0
Standard, Quality Control and Chain of Custody Records	4.0
Established Retention Time Window and Analytical Raw Data	5.0

Section 1.0

Case Narrative

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES



Established 1931

January 18, 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 IM3 PLANT-WDR-025 PROJECT, SLUDGE SAMPLE-3,
TLI NO.: 950722

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Topock IM3 Plant-WDR-025 project, Sludge Sample-3. A summary table for this laboratory number 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 January 11, 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.

Julia Nayberg
Manager, Analytical Services

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

CC: Mr. Mark Cichy, CH2M HILL Redding CA

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.: 950722

Date Received: January 11, 2006

Analytical Results Summary

<u>Lab I.D.</u>	<u>Sample I.D.</u>	<u>EPA 300.0</u> <i>Fluoride</i> <i>mg/kg</i>
950722	SC-Sludge-WDR-028	13.0

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.

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

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.: 950722
Date: January 18, 2006
Collected: January 11, 2006
Received: January 11, 2006
Prep/ Analyzed: January 17, 2006
Analytical Batch: 01AN06M

Investigation: Fluoride by Ion Chromatography Using EPA 300.0

Analytical Results Fluoride

<u>TLI I.D.</u>	<u>Field I.D.</u>	<u>Units</u>	<u>Method</u>	<u>Run Time</u>	<u>DF</u>	<u>RL</u>	<u>Results</u>
950722	SC-Sludge-WDR-028	mg/kg	EPA 300.0	10:35	1.00	0.200	13.0

QA/QC Summary

QC STD I.D.		Laboratory Number		Concentration	Duplicate Concentration	Relative Percent Difference	Acceptance limits	QC Within Control	
Duplicate		950722		13.0	13.1	0.77%	≤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	950722	13.0	1.00	39.7	39.7	55.2	52.7	106%	75-125%	Yes

QC Std I.D.	Measured Concentration	Theoretical Concentration	Percent Recovery	Acceptance Limits	QC Within Control
MRCCS	4.05	4.00	101%	90% - 110%	Yes
MRCVS#1	3.10	3.00	103%	90% - 110%	Yes
MRCVS#2	3.10	3.00	103%	90% - 110%	Yes
LCS	3.79	4.00	94.8%	90% - 110%	Yes

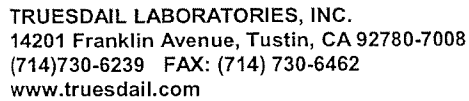
ND: Below the reporting limit (Not Detected).

DF: Dilution Factor.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager
Analytical Services

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



[Sludge Sample-4]

PAGE 1 OF 1

↑ cancelled per Shawn Duffy
on 01/13/06

RUSH!

ALERT!!
Level III QC

For Sample Conditions
See Form Attached

CHAIN OF CUSTODY SIGNATURE RECORD

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

SAMPLE CONDITIONS

RECEIVED COOL ☐ WARM ☐ °F

CUSTODY SEALED YES ☐ NO ☐

SPECIAL REQUIREMENTS: