



**Pacific Gas and  
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November 11, 2005

Mr. Norman Shopay  
California Department of Toxic Substance Control  
Geology, Permitting and Corrective Action Branch  
700 Heinz Avenue, Suite 100  
Berkeley, California 94710

Subject      Condition No. 5 in Department of Toxic Substances Control's October 11, 2005  
                 Conditional Approval of Final Set of Background Wells, Step 2 of Groundwater  
                 Background Study, Pacific Gas and Electric Company, Topock Project

Dear Mr. Shopay:

As required by Condition No. 5 in the Department of Toxic Substances Control's October 11, 2005 letter, the attached provides a response to comment 10 in DTSC's Geological Services Unit (GSU) memorandum of October 7, 2005.

If you have any questions, please do not hesitate to call me.

Sincerely,

Cc:      Kate Burger

# Response to DTSC October 11, 2005 Comment on PG&E Topock Groundwater Title 22 Metals Sampling

DATE: November 11, 2005

## INTRODUCTION

### DTSC's Request

The California Department of Toxic Substances (DTSC) provided comments on Pacific Gas & Electric Company's (PG&E) Groundwater Background Study and Groundwater Monitoring Program (GMP) in a letter dated October 11, 2005. This technical memorandum provides a response to DTSC's Geological Services Unit (GSU) October 7, 2005 memorandum, Comment No. 10, which was referenced and attached to DTSC's October 11, 2005 letter. Comment 10 is stated below:

*10. GSU used the initial background data set to screen trace metal concentrations for wells located within the chromium plume originating from the Topock Compressor Station. This screening identified two wells that appear to have other metals associated with the release to groundwater:*

*a. MW-10: molybdenum (115, 100, 83.3, 114 ug/L).*

*b. MW-12: arsenic (68.6, 64.2, 110 ug/L); molybdenum (77.3 ug/L); vanadium (218 ug/L).*

*This review also identified vanadium and zinc concentrations reported for certain wells in March and June 2005 that may suggest seasonal effects or data quality issues.*

*Recommendation: PG&E should further evaluate the results for wells MW-20-70, MW-20-130, MW-34-55, MW-34-80, and MW-37D. PG&E should also evaluate the need to expand the subset of wells that are sampled for Title 22 metals.*

### RFI Background

While the following sections of this letter memo assess the nature of arsenic, molybdenum, vanadium and zinc analytical results in a select few wells, a review of source records and sampling results has not found any of these compounds to be Contaminants of Concern (COC). PG&E submitted the Draft RCRA Facility Investigation and Remedial Investigation Report in February 2005 (CH2M HILL 2005). Based on analytical data collected during the RFI process, the Constituents of Potential Concern (COPC) list was refined, and only those chemical constituents that were found to be present at the site became constituents of concern (COCs). Arsenic, molybdenum, and vanadium were not listed in the RFI as COCs, or COPCs. Copper, lead, nickel and zinc were initially identified as COPCs at various areas investigated under the RFI. Over 5 years of sampling data indicates that trace metals are

infrequently detected (copper, nickel), and/or are detected at concentrations below the maximum contaminant level (MCL) for drinking water (zinc). Accordingly, the Sampling and Analysis Plan for the groundwater monitoring program (CH2M HILL 2004) recommended that these metals be deleted from ongoing groundwater monitoring. In August 2004, DTSC approved the recommendation for sampling these metals only in selected wells that are part of the ongoing groundwater monitoring program.

## DATA REVIEW

### Occurrences of Cited Metals

The occurrences of the 4 metals cited by DTSC in their October 11, 2005 letter (arsenic, molybdenum, vanadium, and zinc) were examined in all Topock monitoring wells that have been sampled for Title 22 metals. Table 1 presents the data for the wells that were sampled for the Groundwater Monitoring Project (GMP), the Interim Measures investigations (IM), the Compliance Monitoring Project (CMP), and the Groundwater Metals Background Study (BKG). Table 2 summarizes the maximum, minimum, and average concentrations of the 4 cited metals in groundwater samples collected in 2004 and 2005. Below are a summary of findings and an evaluation of the data for the metals that were cited in GSU's Comment 10.

Arsenic - Low concentrations of arsenic have been observed in the background study wells, with an average of 7.5 micrograms per liter ( $\mu\text{g}/\text{L}$ ) and a maximum of 35.6  $\mu\text{g}/\text{L}$ . GMP wells average 11.5  $\mu\text{g}/\text{L}$ , with a maximum concentration of 110  $\mu\text{g}/\text{L}$  detected at well MW-12. A review of the GMP data in Table 1 shows that only non-detect or low levels of arsenic are found in groundwater upgradient of the chromium plume within Bat Cave Wash (wells MW-10 and MW-11). Monitoring wells located in the tail of the chromium plume (the MW-20 and MW-34 clusters) also do not show elevated levels of arsenic. MW-12 is the only well in the GMP, CMP and IM wells that has shown consistently higher arsenic concentrations, indicating a spatially localized occurrence.

The presence of arsenic in MW-12 appears to be a spatially-isolated occurrence; no other wells located in the chromium plume have exhibited similar arsenic concentrations, even near the former cooling water discharge location in Bat Cave Wash (well MW-10). While the monitoring well network is sufficient to characterize the distribution of arsenic across the site, a one-time sampling of MW-21 directly to the east of MW-12 is proposed to provide further definition in this area.

Molybdenum - From Table 1, it can be seen that samples collected from almost all monitoring wells in the GMP and CMP contain molybdenum at some level. The maximum concentrations of molybdenum detected within the plume come from the two wells noted by DTSC, MW-10 and MW-12. While the values for molybdenum seen in these wells are at the high end of the range for the site, they are not seen to be significantly elevated above other wells in the region. For wells outside the plume area, which provide some measure of the natural background conditions for the site, two separate sets of data are available. Background study wells show values of molybdenum from 5 to 50  $\mu\text{g}/\text{L}$ , and Interim Measure No. 3 observation and compliance wells have shown consistent molybdenum concentrations in the range of 40 - 90  $\mu\text{g}/\text{L}$  (Table 1). Concentrations from wells displaying the high end of both these studies are shown in Table 2, as are the results for MW-10. While

MW-10 results are higher than those seen in the background studies (115 µg/L versus 50.4 µg/L and 89.3 µg/L), they are not significantly higher. Since the well immediately downgradient from MW-10 does not show an elevated level of molybdenum (MW-11, with a maximum of 11.5 µg/L), the occurrence at MW-10 represents local variability.

Vanadium - Vanadium concentrations for wells located within the chromium plume are all at low or non-detect levels, with the exception of results for nine GMP wells sampled in March 2005. The nine wells are MW-10, MW-11, MW-12, MW-20-070, MW-20-130, MW-25, MW-34-055, MW-34-080 and MW-37D. The data from March 2005 was anomalously high for each of these wells, and a review of the field and laboratory QA/QC data did not indicate any apparent reason for the anomalies. In general, the vanadium results for March 2005 are much higher than results from the previous quarter (December 2004) and the following quarter (June 2005). The results for the remainder of the Title 22 metals did not show this anomalous temporary concentration spike, and therefore, provide support that the variability is not due to seasonal changes in groundwater geochemistry. Working with the project laboratories on the most recent samples, CH2M HILL chemists have identified matrix interference that appears to have affected at least some of the vanadium results. Having only recently identified this issue, there has not been sufficient time to determine which results are unaffected by this interference.

Zinc - In general, zinc is consistently detected at low concentrations in wells within the chromium plume area. There are a number of exceptions to this, where results appear elevated for a single quarterly measurement (Table 1). For example, the highest zinc concentration observed to date in monitoring wells located within the chromium plume was observed in March 2005 at well MW-20-130 (173 µg/L), but in the previous two quarters the values for zinc were 24.8 µg/L (January 2005) and 43.7 µg/L (September 2004). Table 2 shows that zinc concentrations are found at levels similar to this maximum concentration in wells that are included in the Background Study, in the IM3 injection area, and in other GMP wells. The higher zinc concentrations (March and June 2005 GMP sampling) noted by DTSC appear to be within the normal range found at the site, and are still considered background conditions.

### **GMP Well Network**

The network of 9 wells that are sampled quarterly for Title 22 metals under the GMP include MW-10, MW-11, MW-12, MW-20-70, MW-20-130, MW-25, MW-34-55, MW-34-80, and MW-37D (Figure 1). These wells were selected by DTSC in 2004 to provide additional water quality data at representative and evenly spaced locations within the chromium plume. While arsenic, molybdenum, vanadium and zinc are not elevated above what is expected as background conditions, the current distribution of wells being sampled for Title 22 metals (Figure 1) is such that an elevated concentration could be confirmed by an upgradient well to determine if the change in concentration was the result of movement within the plume, or a localized occurrence. Since the metals in question are shown by the overall network response to be due to background variation or localized occurrence, the present distribution of wells and frequency of sampling that are sampled for Title 22 metals appears to be satisfactory.

## CONCLUSIONS AND RECOMMENDATIONS

Of the 4 metals (arsenic, molybdenum, vanadium, and zinc) that were cited in DTSC's October 11 letter, only arsenic was found at concentrations that exceed California drinking water standards. This is not uncommon for background conditions in many parts of California. The presence of arsenic in MW-12 appears to be a spatially-isolated occurrence; no other wells located in the chromium plume have exhibited similar arsenic concentrations, even near the former cooling water discharge location in Bat Cave Wash (well MW-10). While the monitoring well network is sufficient to characterize the distribution of arsenic across the site, a one-time sampling of MW-21 directly to the east of MW-12 is proposed to provide further definition in this area. No other Title 22 metals appear to be above background concentrations, either within or outside the chromium plume boundaries.

The network of GMP, CMP, and Background Study wells that are presently sampled for Title 22 metals provides adequate spatial coverage in the vicinity of the chromium plume, and for the site as a whole. The current GMP sampling program includes 9 wells distributed throughout the chromium plume, and provides sufficient spatial coverage. Based on 2004-2005 data, increasing the number of wells or the frequency of sampling events for any Title 22 metals is not warranted.

A matrix interference issue has been observed during recent vanadium GMP sampling events, and a methodology is being developed to qualify existing vanadium results and ensure that future analyses are not affected. CH2M HILL is working with Emax Laboratories and Truesdail Laboratories to determine the impact of the matrix interference on previous sample results, and to evaluate possible solutions. When a resolution to this problem has been determined, the Sampling, Analysis, and Field Procedures Manual and the Program Quality Assurance Project Plan (QAPP) will be modified. With DTSC's concurrence and where applicable, data qualifiers will be added to the existing vanadium results in the site database, after CH2M HILL chemists consult with the laboratories.

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6	50	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000 *
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>BKG</b>																		
ADOT New Well	5/18/2005	ND (2.0)	6.12	81.9	ND (1.0)	ND (1.0)	ND (1.0)	9.32	4.47	ND (1.0)	ND (0.2)	9.54	ND (1.0)	1.07	ND (1.0)	ND (1.0)	12.1	64.4
ADOT New Well	7/25/2005	ND (2.0)	5.64	82.0	ND (1.0)	ND (1.0)	ND (1.0)	5.25	4.47	ND (1.0)	ND (0.2)	10.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	12.8	60.1
BOR-2	5/11/2005	ND (2.0)	16.4	57.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	6.30	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	12.3
BOR-2	7/20/2005	ND (2.0)	17.8	103	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	5.77	1.16	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
BOR-3	5/11/2005	ND (2.0)	3.77	299	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	4.94	3.41	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	26.1
BOR-3	7/21/2005	ND (2.0)	4.94	359	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.25	ND (1.0)	ND (0.2)	5.40	1.58	ND (1.0)	ND (1.0)	ND (1.0)	1.05	28.0
CA Agriculture Station	5/16/2005	ND (2.0)	3.37	27.8	ND (1.0)	ND (1.0)	ND (1.0)	2.76	2.06	ND (1.0)	ND (0.2)	20.2	ND (1.0)	2.72	ND (1.0)	ND (1.0)	13.1	ND (10)
CA Agriculture Station	7/25/2005	ND (2.0)	3.41	28.4	ND (1.0)	ND (1.0)	ND (1.0)	2.81	2.65	ND (1.0)	ND (0.2)	20.7	ND (1.0)	2.52	ND (1.0)	ND (1.0)	14.8	35.7
EPNG-2	5/18/2005	ND (2.0)	5.28	83.6	ND (1.0)	ND (1.0)	ND (1.0)	9.69	5.80	ND (1.0)	ND (0.2)	8.36	ND (1.0)	1.27	ND (1.0)	ND (1.0)	13.8	22.7
EPNG-2	7/25/2005	ND (2.0)	5.35	85.0	ND (1.0)	ND (1.0)	ND (1.0)	10.7	1.77	ND (1.0)	ND (0.2)	8.74	ND (1.0)	1.13	ND (1.0)	ND (1.0)	15.3	51.3
GSRV-2	5/19/2005	ND (2.0)	5.31	53.4	ND (1.0)	ND (1.0)	ND (1.0)	35.3	4.74	ND (1.0)	ND (0.2)	5.91	ND (1.0)	1.31	ND (1.0)	ND (1.0)	17.2	14.3
GSRV-2	FD 5/19/2005	ND (2.0)	4.88	52.8	ND (1.0)	ND (1.0)	ND (1.0)	34.2	3.69	ND (1.0)	ND (0.2)	5.84	ND (1.0)	1.60	ND (1.0)	ND (1.0)	16.3	11.9
GSRV-2	7/22/2005	ND (2.0)	6.61	60.1	ND (1.0)	ND (1.0)	ND (1.0)	27.9	1.71 J	ND (1.0)	ND (0.2)	6.74	ND (1.0)	1.30	ND (1.0)	ND (1.0)	18.2	11.8
GSRV-2	FD 7/22/2005	ND (2.0)	6.20	62.7	ND (1.0)	ND (1.0)	ND (1.0)	29.7	4.49 J	ND (1.0)	ND (0.2)	6.91	1.10	1.87	ND (1.0)	ND (1.0)	19.6	19.3
GSWC-1	5/17/2005	ND (2.0)	6.04	36.6	ND (1.0)	ND (1.0)	ND (1.0)	12.0	2.63	ND (1.0)	ND (0.2)	7.03	ND (1.0)	4.34	ND (1.0)	ND (1.0)	16.4	ND (10)
GSWC-1	7/22/2005	ND (2.0)	7.34	40.1	ND (1.0)	ND (1.0)	ND (1.0)	12.7	5.02	1.29	ND (0.2)	7.15	1.22	3.96	ND (1.0)	ND (1.0)	18.4	15.3
GSWC-2	5/17/2005	ND (2.0)	7.21	46.4	ND (1.0)	ND (1.0)	ND (1.0)	5.64	ND (1.0)	ND (1.0)	ND (0.2)	7.29	ND (1.0)	1.61	ND (1.0)	ND (1.0)	17.3	ND (10)
GSWC-2	7/22/2005	ND (2.0)	8.52	50.6	ND (1.0)	ND (1.0)	ND (1.0)	5.82	20.2	1.91	ND (0.2)	7.17	1.72	1.48	ND (1.0)	ND (1.0)	18.4	27.6
GSWC-3	5/18/2005	ND (2.0)	8.87	28.0	ND (1.0)	ND (1.0)	ND (1.0)	13.8	6.64	1.36	ND (0.2)	6.28	ND (1.0)	1.20	ND (1.0)	ND (1.0)	23.0	22.6
GSWC-3	7/22/2005	ND (2.0)	10.1	22.6	ND (1.0)	ND (1.0)	ND (1.0)	11.4	2.71	ND (1.0)	ND (0.2)	5.83	1.13	1.67	ND (1.0)	ND (1.0)	22.6	33.8
GSWC-4	5/18/2005	ND (2.0)	7.42	60.1	ND (1.0)	ND (1.0)	ND (1.0)	7.84	4.85	ND (1.0)	ND (0.2)	6.93	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	20.0	23.5
GSWC-4	7/22/2005	ND (2.0)	8.62	42.3	ND (1.0)	ND (1.0)	ND (1.0)	11.2	4.91	ND (1.0)	ND (0.2)	6.97	1.04	1.06	ND (1.0)	ND (1.0)	21.4	27.2
Langmaack	5/17/2005	ND (2.0)	5.26	21.8	ND (1.0)	ND (1.0)	ND (1.0)	19.5	2.25	ND (1.0)	ND (0.2)	3.56	ND (1.0)	1.84	ND (1.0)	ND (1.0)	15.3	ND (10)
Langmaack	7/25/2005	ND (2.0)	6.37	22.7	ND (1.0)	ND (1.0)	ND (1.0)	20.4	2.99	ND (1.0)	ND (0.2)	3.50	ND (1.0)	1.65	ND (1.0)	ND (1.0)	19.2	16.2
Lily Hill	5/16/2005	ND (2.0)	14.6	52.6	ND (1.0)	ND (1.0)	ND (1.0)	9.52	3.56	ND (1.0)	ND (0.2)	12.6	ND (1.0)	2.07	ND (1.0)	ND (1.0)	21.6	ND (10)
Lily Hill	7/25/2005	ND (2.0)	15.9	59.6	ND (1.0)	ND (1.0)	ND (1.0)	10.6	1.80	ND (1.0)	ND (0.2)	13.2	ND (1.0)	2.61	ND (1.0)	1.16	24.2	24.2
MW-01	5/9/2005	ND (2.0)	13.2	20.8	ND (1.0)	ND (1.0)	ND (1.0)	5.70	2.72	ND (1.0)	ND (0.2)	ND (2.0)	7.79	3.48	ND (1.0)	ND (1.0)	36.9	ND (10)
MW-01	7/18/2005	ND (2.0)	13.3	26.3	ND (1.0)	ND (1.0)	ND (1.0)	6.98	1.55	ND (1.0)	ND (0.2)	ND (2.0)	6.71	3.34	ND (1.0)	ND (1.0)	40.6	72.8
MW-03	5/9/2005	ND (2.0)	10.3	14.1	ND (1.0)	ND (1.0)	ND (1.0)	12.4	4.07	ND (1.0)	ND (0.2)	29.3	41.5	8.84	ND (1.0)	ND (1.0)	30.8	27.6
MW-03	7/18/2005	ND (2.0)	11.9	15.9	ND (1.0)	ND (1.0)	ND (1.0)	12.5	4.85	ND (1.0)	ND (0.2)	26.6	12.5	8.09	ND (1.0)	ND (1.0)	37.4	ND (10)
MW-04	5/9/2005	ND (2.0)	5.44	16.1	ND (1.0)	ND (1.0)	ND (1.0)	22.9	2.75	ND (1.0)	ND (0.2)	15.8	7.74	3.42	ND (1.0)	ND (1.0)	21.1	18.0
MW-04	7/18/2005	ND (2.0)	6.07	17.6	ND (1.0)	ND (1.0)	ND (1.0)	24.0	2.27	ND (1.0)	ND (0.2)	18.2	13.2	3.91	ND (1.0)	ND (1.0)	23.6	12.8
MW-05	5/13/2005	ND (2.0)	5.73	27.8	ND (1.0)	ND (1.0)	ND (1.0)	12.9	2.83	ND (1.0)	ND (0.2)	45.2	ND (6.5)	17.3	ND (1.0)	ND (1.0)	20.1	ND (32)
MW-05	7/18/2005	ND (2.0)	7.34	29.7	ND (1.0)	ND (1.0)	ND (1.0)	15.0	2.04	ND (1.0)	ND (0.2)	50.4	4.97	20.3	ND (1.0)	ND (1.0)	23.5	36.7
MW-06	5/13/2005	ND (2.0)	14.2	10.2	ND (1.0)	ND (1.0)	ND (1.0)	7.98	1.89	ND (1.0)	ND (0.2)	5.61	ND (2.9)	1.44	ND (1.0)	ND (1.0)	44.1	ND (27)
MW-06	7/18/2005	ND (2.0)	15.7	9.17	ND (1.0)	ND (1.0)	ND (1.0)	9.03	1.48	ND (1.0)	ND (0.2)	5.68	1.44	1.31	ND (1.0)	ND (1.0)	47.2	37.8

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6	50	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000 *
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>BKG</b>																		
MW-07	5/13/2005	ND (2.0)	11.1	15.2	ND (1.0)	ND (1.0)	ND (1.0)	14.9	1.19	ND (1.0)	ND (0.2)	17.1	8.03	6.95	ND (1.0)	ND (1.0)	33.0	ND (16)
MW-07	7/18/2005	ND (2.0)	13.8	17.8	ND (1.0)	ND (1.0)	ND (1.0)	18.2	1.30	ND (1.0)	ND (0.2)	20.4	5.29	7.47	ND (1.0)	ND (1.0)	38.7	12.4
MW-08	5/13/2005	ND (2.0)	4.64	29.1	ND (1.0)	ND (1.0)	ND (1.0)	48.7	2.11	ND (1.0)	ND (0.2)	18.5	ND (5.5)	6.07	ND (1.0)	ND (1.0)	18.3	ND (14)
MW-08	7/18/2005	ND (2.0)	6.21	32.1	ND (1.0)	ND (1.0)	ND (1.0)	<b>56.3</b>	11.4	ND (1.0)	ND (0.2) J	19.5	2.46	6.67	ND (1.0)	ND (1.0)	22.6	72.7
MW-16	5/13/2005	ND (2.0)	ND (1.0)	1.08	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	---	ND (2.0)	1.33	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	12.6
MW-16	5/13/2005	ND (2.0)	8.71	26.1	ND (1.0)	ND (1.0)	ND (1.0)	10.8	ND (1.0)	ND (1.0)	ND (0.2)	13.7	7.09	1.81	ND (1.0)	ND (1.0)	28.4	ND (10)
MW-16	FD 5/13/2005	ND (2.0)	9.76	29.1	ND (1.0)	ND (1.0)	ND (1.0)	11.6	1.83	ND (1.0)	ND (0.2)	14.1	ND (6.5)	1.92	ND (1.0)	ND (1.0)	31.6	ND (41)
MW-16	7/26/2005	ND (2.0)	9.74	29.4	ND (1.0)	ND (1.0)	ND (1.0)	10.2	4.13	ND (1.0)	ND (0.2)	12.6	8.84	1.61	ND (1.0)	ND (1.0)	32.0	14.0
MW-16	FD 7/26/2005	ND (2.0)	9.91	29.1	ND (1.0)	ND (1.0)	ND (1.0)	10.3	2.75	ND (1.0)	ND (0.2)	13.1	8.12	1.38	ND (1.0)	ND (1.0)	33.3	ND (10)
MW-17	5/19/2005	ND (2.0)	1.73	34.2	ND (1.0)	ND (1.0)	ND (1.0)	13.2	19.8 J	ND (1.0)	ND (0.2)	17.4	ND (1.0)	12.2	ND (1.0)	ND (1.0)	4.48	63.4
MW-17	FD 5/19/2005	ND (2.0)	1.41	35.2	ND (1.0)	ND (1.0)	ND (1.0)	13.8	7.20 J	1.08	ND (0.2)	17.6	ND (1.0)	12.6	ND (1.0)	ND (1.0)	4.65	65.4
MW-17	7/26/2005	ND (2.0)	1.53	35.2	ND (1.0)	ND (1.0)	ND (1.0)	12.0	3.15	ND (1.0)	ND (0.2)	18.7	1.50	13.1	ND (1.0)	ND (1.0)	3.93	88.8
MW-17	FD 7/26/2005	ND (2.0)	1.50	38.5	ND (1.0)	ND (1.0)	ND (1.0)	12.3	3.08	ND (1.0)	ND (0.2)	20.6	ND (1.0)	14.7	ND (1.0)	ND (1.0)	4.05	85.3
MW-18	7/26/2005	ND (2.0)	1.07	82.8	ND (1.0)	ND (1.0)	ND (1.0)	26.3	3.27	ND (1.0)	ND (0.2)	4.42	ND (1.0)	2.67	ND (1.0)	ND (1.0)	3.87	22.2
Needles MW-10	5/16/2005	ND (2.0)	2.99	16.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.55	ND (1.0)	ND (0.2)	9.81	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	4.73	ND (10)
Needles MW-10	7/21/2005	ND (2.0)	3.84	20.7	ND (1.0)	ND (1.0)	ND (1.0)	1.09	3.22	ND (1.0)	ND (0.2)	10.7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	5.83	24.8
Needles MW-11	5/16/2005	ND (2.0)	5.64	23.2	ND (1.0)	ND (1.0)	ND (1.0)	2.26	4.31	ND (1.0)	ND (0.2)	15.7	ND (1.0)	3.08	ND (1.0)	ND (1.0)	9.18	ND (10)
Needles MW-11	7/21/2005	ND (2.0)	6.56	28.6	ND (1.0)	ND (1.0)	ND (1.0)	2.89	4.19	1.43	ND (0.2)	17.7	1.02	3.84	ND (1.0)	ND (1.0)	10.8	46.5
Needles MW-12	6/22/2005	ND (2.0)	3.53	28.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.66	ND (1.0)	ND (0.2)	10.5	3.31	ND (1.0)	ND (1.0)	1.22	6.95	26.4
Needles MW-12	7/21/2005	ND (2.0)	3.49	30.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.50	ND (1.0)	ND (0.2)	10.4	2.77	ND (1.0)	ND (1.0)	ND (1.0)	5.31	ND (10)
New Farm Well	5/12/2005	ND (2.0)	5.02	60.1	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.50	ND (1.0)	ND (0.2)	5.71	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
New Farm Well	7/20/2005	ND (2.0)	6.41	66.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.24	ND (1.0)	ND (0.2)	6.59	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	34.4
P-2	5/13/2005	ND (2.0)	2.26	147	ND (1.0)	ND (1.0)	ND (1.0)	2.91	ND (1.0)	ND (1.0)	ND (0.2)	5.78	ND (1.4)	1.63	ND (1.0)	ND (1.0)	11.4	ND (16)
P-2	7/26/2005	ND (2.0)	2.09	141	ND (1.0)	ND (1.0)	ND (1.0)	3.80	3.36	ND (1.0)	ND (0.2)	5.78	ND (1.0)	1.98	ND (1.0)	ND (1.0)	12.7	ND (10)
PGE-09N	5/11/2005	ND (2.0)	ND (1.0)	17.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.2)	ND (2.0)	2.43	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	125
PGE-09N	7/20/2005	ND (2.0)	32.1	108	ND (1.0)	ND (1.0)	1.00	ND (1.0)	29.0	ND (1.0)	ND (0.2)	19.1	2.17	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	896
PGE-09S	5/11/2005	ND (2.0)	23.4	94.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.20	ND (1.0)	ND (0.2)	15.3	1.79	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1870
PGE-09S	7/20/2005	ND (2.0)	35.6	180	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.49	ND (1.0)	ND (0.2)	19.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	655
PMM-Supply	5/18/2005	ND (2.0)	1.58	143	ND (1.0)	ND (1.0)	ND (1.0)	11.5	4.64	ND (1.0)	ND (0.2)	5.31	2.71 J	1.36	ND (1.0)	ND (1.0)	9.65	37.5
PMM-Supply	FD 5/18/2005	ND (2.0)	1.64	141	ND (1.0)	ND (1.0)	ND (1.0)	10.9	4.75	ND (1.0)	ND (0.2)	5.44	ND (1.0) J	1.84	ND (1.0)	ND (1.0)	9.96	25.6
PMM-Supply	7/21/2005	ND (2.0)	2.06	155	ND (1.0)	ND (1.0)	ND (1.0)	10.2	2.41	ND (1.0)	ND (0.2)	5.41	ND (1.0)	1.51	ND (1.0)	ND (1.0)	9.31	14.5
PMM-Supply	FD 7/21/2005	ND (2.0)	1.89	158	ND (1.0)	ND (1.0)	ND (1.0)	10.8	1.52	ND (1.0)	ND (0.2)	5.35	ND (1.0)	1.41	ND (1.0)	ND (1.0)	9.16	24.7
Tayloe	5/16/2005	ND (2.0)	4.38	49.9	ND (1.0)	ND (1.0)	ND (1.0)	1.13	ND (1.0)	2.52	ND (0.2)	10.1	ND (1.0)	1.88	ND (1.0)	ND (1.0)	7.62	35.3
Tayloe	7/25/2005	ND (2.0)	6.18	44.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.89	1.14	ND (0.2)	10.9	ND (1.0)	2.36	ND (1.0)	ND (1.0)	9.61	66.3
TMLP-2	5/12/2005	ND (2.0)	5.34	22.3	ND (1.0)	ND (1.0)	ND (1.0)	19.3	ND (1.0)	ND (1.0)	ND (0.2)	5.16	ND (1.0)	1.00	ND (1.0)	ND (1.0)	17.0	ND (10)
TMLP-2	7/20/2005	ND (2.0)	6.64	20.2	ND (1.0)	ND (1.0)	ND (1.0)	22.5	3.05	ND (1.0)	ND (0.2)	6.11	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	21.4	18.0

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6 Antimony	50 Arsenic	1000 Barium	4 Beryllium	5 Cadmium	NE Cobalt	50 Chromium	1000* Copper	NE Lead	2 Mercury	NE Molybdenum	100 Nickel	50 Selenium	100* Silver	2 Thallium	NE Vanadium	5000* Zinc
<b>BKG</b>																		
USFW-5	5/12/2005	ND (2.0)	3.42	37.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.96	ND (1.0)	ND (0.2)	4.38	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
USFW-5	7/20/2005	ND (2.0)	3.83	43.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.30	ND (1.0)	ND (0.2)	5.28	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	12.2
<b>CMP</b>																		
CW-01D	9/15/2005	ND (5.0)	ND (10)	47.8	ND (4.2)	ND (3.0)	ND (4.2)	1.60	ND (5.0)	3.60	ND (0.2)	32.1	5.50	ND (10)	ND (3.0)	ND (15)	34.2	111
CW-01M	9/15/2005	ND (5.0)	ND (10)	56.6	ND (3.0)	ND (3.0)	ND (3.0)	17.8	ND (5.0)	5.40	ND (0.2)	21.6	ND (5.0)	ND (10)	ND (3.0)	ND (15)	28.3	248
CW-02D	9/15/2005	ND (5.0)	ND (10)	44.9	ND (4.2)	ND (4.2)	ND (4.2)	1.60	ND (5.0)	ND (4.2)	ND (0.2)	41.6	ND (5.0)	ND (10)	ND (4.2)	ND (15)	42.2	26.2
CW-02M	9/15/2005	ND (5.0)	ND (10)	48.1	ND (3.0)	ND (3.0)	ND (3.0)	15.5	ND (5.0)	6.70	ND (0.2)	23.1	ND (5.0)	ND (10)	ND (3.0)	ND (15)	34.1	215 J
CW-02M	FD 9/15/2005	ND (5.0)	ND (10)	45.3	ND (3.0)	ND (3.0)	ND (3.0)	14.7	ND (5.0)	4.90	ND (0.2)	21.1	ND (5.0)	ND (10)	ND (3.0)	ND (15)	30.7	ND (20) J
CW-03D	9/16/2005	ND (5.0)	ND (10)	69.3	ND (4.2)	ND (4.2)	ND (4.2)	ND (1.0)	ND (5.0)	ND (4.2)	ND (0.2)	29.2	6.20	ND (10)	ND (4.2)	ND (15)	31.6	ND (21)
CW-03M	9/16/2005	ND (5.0)	ND (10)	41.3	ND (3.0)	ND (3.0)	ND (3.0)	8.10	ND (5.0)	2.90	ND (0.2)	24.2	5.70	ND (10)	ND (3.0)	ND (15)	27.4	26.7
CW-04D	9/13/2005	ND (5.0)	ND (10)	37.5	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	15.4	ND (5.0)	ND (0.2)	26.0	ND (5.0)	ND (10)	ND (3.1)	ND (15)	7.90	32.3
CW-04M	9/13/2005	ND (5.0)	ND (10)	69.7	ND (3.1)	ND (3.1)	ND (3.1)	19.0	21.8	5.50	ND (0.2)	12.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	10.3	31.5
OW-01D	7/27/2005	ND (5.0)	ND (10)	90.3	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.3)	21.6	ND (2.6)	ND (0.2)	46.1	9.50	ND (10)	ND (3.0)	ND (15)	13.7	38.3
OW-01D	8/25/2005	ND (5.0)	ND (10)	52.2	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.6)	16.5	ND (3.1)	ND (0.2)	26.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	17.2	ND (16)
OW-01D	9/14/2005	ND (5.0)	ND (10)	61.5	ND (3.0)	ND (4.2)	ND (4.2)	1.50	ND (5.0)	ND (5.0)	ND (0.2)	30.8	ND (5.0)	ND (10)	ND (4.2)	ND (15)	16.0	ND (21)
OW-01M	7/27/2005	ND (5.0)	ND (10)	57.9	ND (3.0)	ND (3.0)	ND (3.0)	18.9	ND (5.0)	ND (2.6)	ND (0.2)	27.0	ND (5.0)	ND (10)	ND (3.0)	ND (15)	14.7	ND (13)
OW-01M	8/25/2005	ND (5.0)	ND (10)	21.8	ND (3.1)	ND (3.1)	ND (3.1)	10.7	21.0	ND (3.1)	ND (0.2)	12.2	ND (5.0)	ND (10)	ND (3.1)	ND (15)	12.2	ND (16)
OW-01M	9/14/2005	ND (5.0)	ND (10)	52.7	ND (3.0)	ND (3.0)	ND (3.0)	7.30	ND (5.0)	ND (5.0)	ND (0.2)	17.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	12.5	ND (20)
OW-01M	FD 9/14/2005	ND (5.0)	ND (10)	50.4	ND (3.0)	ND (3.0)	ND (3.0)	7.50	ND (5.0)	ND (5.0)	ND (0.2)	16.2	ND (5.0)	ND (10)	ND (3.0)	ND (15)	13.3	ND (20)
OW-01S	7/28/2005	ND (5.0)	ND (10)	59.2	ND (3.0)	ND (3.0)	ND (3.0)	18.8 J	ND (5.0)	ND (2.1)	ND (0.2)	15.7	7.10	ND (10)	ND (3.0)	ND (15)	5.00	ND (10)
OW-01S	FD 7/28/2005	ND (5.0)	ND (10)	60.7	ND (3.0)	ND (3.0)	ND (3.0)	23.5 J	ND (5.0)	ND (2.4)	ND (0.2)	17.2	7.50	ND (10)	ND (3.0)	ND (15)	10.6	ND (12)
OW-01S	8/26/2005	ND (5.0)	ND (10)	67.5	ND (3.1)	ND (3.1)	ND (3.1)	18.0	ND (5.0)	ND (3.1)	ND (0.2)	11.6	10.3	ND (10)	ND (3.1)	ND (15)	6.80	ND (16)
OW-01S	9/15/2005	ND (5.0)	ND (10)	66.6	ND (3.0)	ND (3.0)	ND (3.0)	16.8	ND (5.0)	4.70	ND (0.2)	9.60	6.40	ND (10)	ND (3.0)	ND (15)	13.0	ND (20)
OW-02D	7/28/2005	ND (5.0)	ND (10)	54.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.2)	ND (5.0)	ND (2.4)	ND (0.2)	51.2	6.70	ND (10)	ND (3.0)	ND (15)	17.2	ND (12)
OW-02D	8/25/2005	ND (5.0)	ND (10)	21.1	ND (3.1)	ND (3.1)	ND (3.1)	1.90	18.6	ND (3.1)	ND (0.2)	14.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	15.2	ND (16)
OW-02D	9/14/2005	ND (5.0)	ND (10)	19.9	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	6.30	ND (5.0)	ND (0.2)	11.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	17.0	ND (20)
OW-02M	7/28/2005	ND (5.0)	ND (10)	52.7	ND (3.0)	ND (3.0)	ND (3.0)	5.70	ND (5.0)	ND (2.4)	ND (0.2)	32.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	14.4	ND (12)
OW-02M	8/25/2005	ND (5.0)	ND (10)	47.4	ND (3.1)	ND (3.1)	ND (3.1)	6.60	20.6	ND (3.1)	ND (0.2)	22.9	ND (5.0)	ND (10)	ND (3.1)	ND (15)	11.4	27.1
OW-02M	9/14/2005	ND (5.0)	ND (10)	44.9	ND (3.0)	ND (3.0)	ND (3.0)	3.90	ND (5.0)	ND (5.0)	ND (0.2)	21.5	ND (5.0)	ND (10)	ND (3.0)	ND (15)	12.4	ND (20)
OW-02S	7/28/2005	ND (5.0)	ND (10)	53.7	ND (3.0)	ND (3.0)	ND (3.0)	14.8	ND (5.0)	ND (2.4)	ND (0.2)	35.6	ND (5.0)	ND (10)	ND (3.0)	ND (15)	10.8	ND (12)
OW-02S	8/26/2005	ND (5.0)	ND (10)	60.6	ND (3.1)	ND (3.1)	ND (3.1)	19.1	ND (5.0)	ND (3.1)	ND (0.2)	35.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	8.50	ND (16)
OW-02S	FD 8/26/2005	ND (5.0)	ND (10)	59.8	ND (3.1)	ND (3.1)	ND (3.1)	18.9	ND (5.0)	ND (3.1)	ND (0.2)	38.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.20	ND (16)
OW-02S	9/14/2005	ND (5.0)	ND (10)	62.5	ND (3.0)	ND (3.0)	ND (3.0)	22.4	ND (5.0)	ND (5.0)	ND (0.2)	32.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	10.7	ND (20)
OW-05D	7/28/2005	ND (5.0)	ND (10)	61.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.2)	ND (5.0)	ND (2.4)	ND (0.2)	57.0	5.40	ND (10)	ND (3.0)	ND (15)	10.2	ND (12)
OW-05D	8/26/2005	ND (5.0)	ND (10)	45.8	ND (3.1)	ND (3.1)	ND (3.1)	3.90	ND (5.0)	ND (3.1)	ND (0.2)	48.8	9.70	ND (10)	ND (3.1)	ND (15)	11.2	36.7
OW-05D	9/13/2005	ND (5.0)	ND (10)	53.8	ND (3.0)	ND (4.2)	ND (4.2)	ND (1.0)	15.0	ND (5.0)	ND (0.2)	42.5	6.50	ND (10)	ND (4.2)	ND (15)	14.4	22.7



**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6 Antimony	50 Arsenic	1000 Barium	4 Beryllium	5 Cadmium	NE Cobalt	50 Chromium	1000* Copper	NE Lead	2 Mercury	NE Molybdenum	100 Nickel	50 Selenium	100* Silver	2 Thallium	NE Vanadium	5000* Zinc
<b>CMP</b>																		
OW-05M	7/28/2005	ND (5.0)	ND (10)	47.6	ND (3.0)	ND (3.0)	ND (3.0)	8.80	ND (5.0)	ND (2.4)	ND (0.2)	35.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	9.70	ND (12)
OW-05M	8/26/2005	ND (5.0)	ND (10)	45.8	ND (3.1)	ND (3.1)	ND (3.1)	11.3	5.80	ND (3.1)	ND (0.2)	32.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.70	ND (16)
OW-05M	9/13/2005	ND (5.0)	ND (10)	42.0	ND (3.0)	ND (4.2)	ND (4.2)	10.6	11.4	ND (5.0)	ND (0.2)	28.6	5.40	ND (10)	ND (4.2)	ND (15)	13.4	26.4
OW-05S	7/28/2005	ND (5.0)	ND (10)	48.9	ND (3.0)	ND (3.0)	ND (3.0)	25.6	ND (5.0)	ND (2.4)	ND (0.2)	17.1	ND (5.0)	ND (10)	ND (3.0)	ND (15)	11.4	ND (12)
OW-05S	8/26/2005	ND (5.0)	ND (10)	54.0	ND (3.1)	ND (3.1)	ND (3.1)	25.1	ND (5.0)	ND (3.1)	ND (0.2)	17.8	ND (5.0)	ND (10)	ND (3.1)	ND (15)	7.90	ND (16)
OW-05S	9/13/2005	ND (5.0)	ND (10)	48.3	ND (3.0)	ND (3.0)	ND (3.0)	21.8	15.0	ND (5.0)	ND (0.2)	15.7	ND (5.0)	ND (10)	ND (3.0)	ND (15)	7.90	ND (20)
<b>GMP</b>																		
MW-09	12/17/2004	ND (5.0)	ND (10)	61.5	ND (3.1)	ND (3.1)	ND (3.1)	<b>306</b>	ND (5.0)	ND (2.1)	ND (0.2)	ND (5.0)	ND (5.0)	13.2	5.90	ND (15)	14.0	70.0
MW-10	6/10/2004	ND (25) R1	ND (10) R1	38.0 R1	ND (3.0) R1	ND (3.0) R1	ND (3.0) R1	<b>410 R1</b>	ND (5.0) R1	ND (5.0) R1	ND (0.5)	10.0 R1	ND (5.0) R1	ND (10) R1	ND (3.0) R1	ND (5.0) R1	ND (3.0) R1	ND (10) R1
MW-10	9/21/2004	ND (5.0)	ND (10)	45.8	ND (3.0)	ND (3.0)	ND (3.0)	<b>1960</b>	6.40	ND (5.0)	ND (0.2)	115	ND (5.0)	ND (10)	ND (3.0)	ND (15)	25.2	22.7
MW-10	12/17/2004	ND (5.0)	ND (10)	44.9	ND (3.1)	ND (3.1)	ND (3.1)	<b>1300</b>	ND (5.0)	ND (2.1)	ND (0.2)	100	ND (5.0)	ND (10)	61.8	ND (15)	40.0	54.9
MW-10	3/8/2005	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	<b>1110</b>	ND (5.0)	ND (2.1)	ND (0.2)	83.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	141	56.2
MW-10	FD 3/8/2005	ND (5.0)	ND (10)	49.3	ND (3.1)	ND (3.1)	ND (3.1)	<b>1100</b>	ND (5.0)	ND (2.1)	ND (0.2)	81.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	165	65.6
MW-10	6/16/2005	ND (2.0)	6.39	45.5	ND (1.0)	ND (1.0)	ND (1.0)	<b>1400</b>	ND (1.0)	1.53	ND (0.2)	114	1.70	4.90	ND (1.0)	ND (1.0)	33.5	ND (10)
MW-11	6/10/2004	ND (25) R1	ND (10) R1	41.0 R1	ND (3.0) R1	ND (3.0) R1	ND (3.0) R1	<b>1400 R1</b>	ND (5.0) R1	ND (5.0) R1	ND (0.5)	90.0 R1	ND (5.0) R1	ND (10) R1	ND (3.0) R1	ND (5.0) R1	7.00 R1	ND (10) R1
MW-11	9/21/2004	ND (5.0)	ND (10)	45.1	ND (3.0)	ND (3.0)	ND (3.0)	<b>431</b>	ND (5.0)	ND (5.0)	ND (0.2)	8.80	ND (5.0)	ND (10)	ND (3.0)	ND (15)	5.80	ND (10)
MW-11	12/17/2004	ND (5.0)	ND (10)	38.8	ND (3.1)	ND (3.1)	ND (3.1)	<b>393</b>	ND (5.0)	ND (2.1)	ND (0.2)	9.40	ND (5.0)	13.6	ND (3.1)	ND (15)	9.90	27.4
MW-11	3/8/2005	ND (5.0)	ND (10)	38.3	ND (3.1)	ND (3.1)	ND (3.1)	<b>357</b>	ND (5.0)	ND (2.1)	ND (0.2)	9.00	ND (5.0)	ND (10)	ND (3.1)	ND (15)	85.9	56.7
MW-11	6/16/2005	ND (2.0)	1.53	42.1	ND (1.0)	ND (1.0)	ND (1.0)	<b>379</b>	ND (1.0)	ND (1.0)	ND (0.2)	11.5	1.03	4.50	ND (1.0)	ND (1.0)	8.31	13.4
MW-12	6/9/2004	ND (25)	<b>60.0</b>	52.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>1300</b>	ND (5.0)	ND (5.0)	ND (0.5)	30.0	ND (5.0)	ND (10)	ND (3.0)	ND (5.0)	9.00	ND (10)
MW-12	FD 6/9/2004	ND (25)	<b>70.0</b>	56.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>1400</b>	ND (5.0)	ND (5.0)	ND (0.5)	40.0	ND (5.0)	ND (10)	ND (3.0)	ND (5.0)	8.00	10.0
MW-12	9/20/2004	<b>20.9</b>	<b>68.6</b>	62.8	ND (3.0)	ND (3.0)	ND (3.0)	<b>1490</b>	ND (5.0)	ND (5.0)	ND (0.2)	41.2	ND (5.0)	ND (10)	ND (3.0)	ND (15)	24.6	19.2
MW-12	3/10/2005	ND (5.0)	<b>53.4</b>	38.9	ND (3.1)	ND (3.1)	ND (3.1)	<b>945</b>	ND (5.0)	ND (2.1)	ND (0.2)	36.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	218	37.5
MW-12	FD 3/10/2005	ND (5.0)	<b>64.2</b>	39.9	ND (3.1)	ND (3.1)	ND (3.1)	<b>912</b>	ND (5.0)	ND (2.1)	ND (0.2)	40.7	ND (5.0)	ND (10)	ND (3.1)	ND (15)	202	54.6
MW-12	6/13/2005	ND (2.0)	<b>110</b>	44.1	ND (1.0)	ND (1.0)	ND (1.0)	<b>957</b>	ND (1.0)	ND (1.0)	ND (0.2)	77.3	11.7	5.73	ND (1.0)	1.11	34.2	24.4
MW-12	9/16/2005	ND (5.0)	ND (10)	110	ND (3.0)	ND (3.0)	ND (3.0)	<b>618</b>	ND (5.0)	5.70	ND (0.2)	63.5	17.9	ND (10)	ND (3.0)	ND (15)	52.2	75.5
MW-20-070	9/24/2004	ND (5.0)	ND (10)	59.1	ND (3.0)	ND (3.0)	ND (3.0)	<b>7550</b>	10.8	ND (5.0)	ND (0.2)	20.6	ND (5.0)	18.1	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-20-070	12/16/2004	ND (5.0)	ND (10)	36.6	ND (3.1)	ND (3.1)	ND (3.1)	<b>7230</b>	ND (5.0)	ND (2.1)	ND (0.2)	18.1	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.40	25.6
MW-20-070	3/10/2005	ND (5.0)	ND (10)	51.0	ND (3.1)	ND (3.1)	ND (3.1)	<b>8120</b>	ND (5.0)	ND (2.1)	ND (0.2)	13.0	5.20	ND (10)	ND (3.1)	ND (15)	91.6	136
MW-20-070	6/15/2005	ND (2.0)	1.59	47.4	ND (1.0)	ND (1.0)	ND (1.0)	<b>6430</b>	ND (1.0)	ND (1.0)	ND (0.2)	17.5	2.41	7.36	ND (1.0)	ND (1.0)	7.46	43.1 J
MW-20-070	FD 6/15/2005	ND (2.0)	1.62	51.8	ND (1.0)	ND (1.0)	ND (1.0)	<b>7130</b>	1.86	1.37	ND (0.2)	17.9	2.28	7.83	ND (1.0)	ND (1.0)	8.24	159 J
MW-20-130	9/24/2004	ND (5.0)	ND (10)	40.3	ND (3.0)	ND (3.0)	ND (3.0)	<b>7000</b>	15.0	ND (5.0)	ND (0.2)	47.2	ND (5.0)	23.0	ND (3.0)	ND (15)	ND (3.0)	43.7
MW-20-130	1/27/2005	ND (5.0)	ND (10)	26.8	ND (3.0)	ND (3.0)	ND (3.0)	<b>8410</b>	ND (5.0)	ND (2.1)	ND (0.2)	44.4	ND (5.0)	13.0	ND (3.0)	ND (15)	11.6	24.6
MW-20-130	3/9/2005	ND (5.0)	ND (10)	21.5	ND (3.1)	ND (3.1)	ND (3.1)	<b>8170</b>	ND (5.0)	ND (2.1)	ND (0.2)	33.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	172	84.5 J
MW-20-130	FD 3/9/2005	ND (5.0)	ND (10)	20.0	ND (3.1)	ND (3.1)	ND (3.1)	<b>7050</b>	ND (5.0)	ND (2.1)	ND (0.2)	29.0	5.30	ND (10)	ND (3.1)	ND (15)	162	173 J
MW-20-130	6/15/2005	ND (2.0)	7.42	26.5	ND (1.0)	ND (1.0)	ND (1.0)	<b>11300</b>	1.62	ND (1.0)	ND (0.2)	57.6	ND (1.0)	10.7	ND (1.0)	ND (1.0)	4.13	31.9

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6 Antimony	50 Arsenic	1000 Barium	4 Beryllium	5 Cadmium	NE Cobalt	50 Chromium	1000 * Copper	NE Lead	2 Mercury	NE Molybdenum	100 Nickel	50 Selenium	100* Silver	2 Thallium	NE Vanadium	5000 * Zinc
<b>GMP</b>																		
MW-25	6/9/2004	ND (25)	ND (10)	37.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>2100</b>	ND (5.0)	ND (5.0)	ND (0.5)	ND (10)	ND (5.0)	ND (10)	ND (3.0)	ND (5.0)	ND (3.0)	10.0
MW-25	9/22/2004	ND (5.0)	ND (10)	40.7	ND (3.0)	ND (3.0)	ND (3.0)	<b>1930</b>	7.10	ND (5.0)	ND (0.2)	ND (5.0)	ND (5.0)	13.1	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-25	3/9/2005	ND (5.0)	ND (10)	39.5	ND (3.1)	ND (3.1)	ND (3.1)	<b>1700</b>	ND (5.0)	ND (2.1)	ND (0.2)	ND (5.0)	ND (5.0)	ND (10)	ND (3.1)	ND (15)	73.3	94.6
MW-25	6/14/2005	ND (2.0)	1.81	45.5	ND (1.0)	ND (1.0)	ND (1.0)	<b>1790</b>	ND (1.0)	ND (1.0)	ND (0.2)	3.85	2.26	2.72	ND (1.0)	ND (1.0)	11.1	119 J
MW-25	FD 6/14/2005	ND (2.0)	1.93	48.9	ND (1.0)	ND (1.0)	ND (1.0)	<b>1930</b>	1.34	ND (1.0)	ND (0.2)	4.13	1.68	2.65	ND (1.0)	ND (1.0)	11.8	16.1 J
MW-31-060	3/9/2005	ND (5.0)	ND (10)	35.7	ND (3.1)	ND (3.1)	ND (3.1)	<b>2590</b>	ND (5.0)	ND (2.1)	ND (0.2)	9.80	ND (5.0)	ND (10)	ND (3.1)	ND (15)	118	104
MW-34-055	6/8/2004	<b>26.0</b>	ND (10)	83.0	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (0.5)	20.0	ND (5.0)	ND (10)	ND (3.0)	ND (5.0)	ND (3.0)	ND (10)
MW-34-055	9/22/2004	ND (5.0)	ND (10)	87.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	12.0	ND (5.0)	ND (0.2)	13.0	ND (5.0)	12.5	ND (3.0)	ND (15)	ND (3.0)	22.7
MW-34-055	12/15/2004	ND (5.0)	ND (10)	71.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	6.60	12.2	ND (0.2)	13.7	ND (5.0)	ND (10)	40.4	ND (15)	6.50	25.1
MW-34-055	3/10/2005	ND (5.0)	ND (10)	66.9	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	12.4	9.10	ND (10)	ND (3.1)	ND (15)	227	87.7
MW-34-080	6/8/2004	ND (25)	ND (10)	51.0	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (5.0)	ND (5.0)	ND (0.5)	20.0	6.00	ND (10)	ND (3.0)	ND (5.0)	ND (3.0)	ND (10)
MW-34-080	9/23/2004	ND (5.0)	ND (10)	54.1	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.1	ND (5.0)	ND (0.2)	14.9	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	23.2
MW-34-080	FD 9/23/2004	ND (5.0)	ND (10)	52.8	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	10.6	ND (5.0)	ND (0.2)	14.4	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	22.0
MW-34-080	12/13/2004	ND (5.0)	ND (10)	42.0	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	14.7	8.60	ND (10)	ND (3.1)	ND (15)	15.3	29.7
MW-34-080	3/8/2005	ND (5.0)	ND (10)	51.8	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	13.3	15.5	ND (10)	ND (3.1)	ND (15)	238	41.7
MW-34-080	6/30/2005	ND (2.0)	2.09	46.4	ND (1.0)	ND (1.0)	1.39	ND (1.0)	2.25	ND (1.0)	ND (0.2)	11.1	2.23	ND (1.0)	ND (1.0)	ND (1.0)	2.74	37.0
MW-37D	9/24/2004	ND (5.0)	ND (10)	65.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>1220</b>	8.50	ND (5.0)	ND (0.2)	47.3	ND (5.0)	ND (10)	ND (3.0)	ND (15)	ND (3.0)	17.2
MW-37D	FD 9/24/2004	ND (5.0)	ND (10)	65.9	ND (3.0)	ND (3.0)	ND (3.0)	<b>1160</b>	9.60	ND (5.0)	ND (0.2)	46.3	ND (5.0)	10.0	ND (3.0)	ND (15)	ND (3.0)	24.8
MW-37D	12/14/2004	ND (5.0)	ND (10)	46.4	ND (3.1)	ND (3.1)	ND (3.1)	<b>1490</b>	ND (5.0)	ND (2.1)	ND (0.2)	43.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	31.4 J	33.0 J
MW-37D	FD 12/14/2004	ND (5.0)	ND (10)	49.9	ND (3.1)	ND (3.1)	ND (3.1)	<b>1440</b>	ND (5.0)	ND (2.1)	ND (0.2)	44.6	8.30	ND (10)	ND (3.1)	ND (15)	20.5 J	91.8 J
MW-37D	3/11/2005	ND (5.0)	ND (10)	53.9	ND (3.1)	ND (3.1)	ND (3.1)	<b>1540</b>	ND (5.0)	ND (2.1)	ND (0.2)	34.1	9.20	ND (10)	ND (3.1)	ND (15)	326	38.7
MW-37D	6/15/2005	ND (2.0)	3.63	54.9	ND (1.0)	ND (1.0)	ND (1.0)	<b>1420</b>	ND (1.0)	ND (1.0)	ND (0.2)	51.8	25.4	3.10	ND (1.0)	ND (1.0)	4.00	11.0
TW-01	12/21/2004	ND (5.0)	ND (10)	42.7	ND (3.1)	ND (3.1)	ND (3.1)	<b>3790</b>	ND (5.0)	ND (2.1)	ND (0.2)	13.8	ND (5.0)	<b>155</b>	87.3	ND (15)	13.8	38.6
TW-02D	7/29/2004	ND (25)	ND (10)	27.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>5600</b>	ND (5.0)	ND (100)	ND (0.5)	50.0	ND (5.0)	10.0	ND (3.0)	ND (5.0)	ND (3.0) J	10.0
TW-02D	12/16/2004	ND (5.0)	ND (10)	24.8	ND (3.1)	ND (3.1)	ND (3.1)	<b>6570</b>	ND (5.0)	ND (2.1)	ND (0.2)	44.8	5.10	ND (10)	ND (3.1)	ND (15)	16.0	28.7
TW-02D	6/15/2005	ND (2.0)	4.53	27.6	ND (1.0)	ND (1.0)	ND (1.0)	<b>4460</b>	ND (1.0)	ND (1.0)	ND (0.2)	33.2	ND (1.0)	3.83	ND (1.0)	ND (1.0)	9.28	17.5
TW-02S	7/29/2004	ND (25)	ND (10)	63.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>5900</b>	ND (5.0)	ND (5.0)	ND (0.5)	30.0	ND (5.0)	20.0	ND (3.0)	ND (5.0)	ND (3.0)	50.0
TW-02S	12/16/2004	ND (5.0)	ND (10)	56.8	ND (3.1)	ND (3.1)	ND (3.1)	<b>5490</b>	ND (5.0)	ND (2.1)	ND (0.2)	15.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	10.9	217
TW-02S	6/16/2005	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.73	ND (1.0)	ND (0.2)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
<b>IM1</b>																		
MW-37D	6/11/2004	ND (25)	ND (10)	55.0	ND (3.0)	ND (3.0)	ND (3.0)	<b>950</b>	ND (5.0)	ND (5.0)	ND (0.5)	50.0	ND (5.0)	10.0	ND (3.0)	ND (5.0)	ND (3.0)	ND (10)
<b>IM3</b>																		
CW-01D	2/7/2005	ND (5.0)	ND (10)	72.1	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	51.8	ND (5.0)	ND (10)	ND (3.0)	ND (15)	89.3	18.5
CW-01D	2/22/2005	ND (3.0)	ND (5.0)	69.3	---	---	---	---	ND (5.0)	ND (5.0)	---	49.9	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-01M	2/8/2005	ND (5.0)	ND (10)	44.4	ND (3.0)	ND (3.0)	ND (3.0)	12.0	ND (5.0)	ND (2.1)	ND (0.2)	19.6	ND (5.0)	ND (10)	ND (3.0)	ND (15)	97.7	80.2
CW-01M	2/22/2005	ND (3.0)	ND (5.0)	50.9	---	---	---	---	ND (5.0)	ND (5.0)	---	20.1	ND (5.0)	ND (5.0)	---	---	---	ND (20)

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6	50	1000	4	5	NE	50	1000 *	NE	2	NE	100	50	100*	2	NE	5000 *
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>IM3</b>																		
CW-02D	2/8/2005	ND (5.0)	ND (10)	76.6	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	50.1	5.60	ND (10)	ND (3.0)	ND (15)	121	52.2
CW-02D	2/23/2005	ND (3.0)	ND (5.0)	70.2	---	---	---	---	ND (5.0)	ND (5.0)	---	51.8	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-02M	2/9/2005	ND (5.0)	ND (10)	68.4	ND (3.0)	ND (3.0)	ND (3.0)	13.4	ND (5.0)	ND (2.1)	ND (0.2)	29.2	ND (5.0)	ND (10)	ND (3.0)	ND (15)	116	33.2 J
CW-02M	FD 2/9/2005	ND (5.0)	ND (10)	68.0	ND (3.0)	ND (3.0)	ND (3.0)	13.0	ND (5.0)	ND (2.1)	ND (0.2)	28.0	ND (5.0)	ND (10)	ND (3.0)	ND (15)	124	15.8 J
CW-02M	2/23/2005	ND (3.0)	ND (5.0)	59.6	---	---	---	---	ND (5.0)	ND (5.0)	---	26.7	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-03D	2/8/2005	ND (5.0)	ND (10)	100	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	59.0	7.60	ND (10)	ND (3.0)	ND (15)	115	27.6
CW-03D	2/22/2005	ND (3.0)	ND (5.0)	119	---	---	---	---	ND (5.0)	ND (5.0)	---	59.9	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-03M	2/10/2005	ND (5.0)	ND (10)	61.1	ND (3.0)	ND (3.0)	ND (3.0)	5.20	ND (5.0)	ND (2.1)	ND (0.2)	37.8	5.00	ND (10)	ND (3.0)	ND (15)	98.3	42.4
CW-03M	2/22/2005	ND (3.0)	ND (5.0)	54.3	---	---	---	---	ND (5.0)	ND (5.0)	---	34.2	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-04D	2/7/2005	ND (5.0)	ND (10)	74.1	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	39.1	5.60	ND (10)	ND (3.0)	ND (15)	109	25.7
CW-04D	2/23/2005	ND (3.0)	ND (5.0)	70.3	---	---	---	---	ND (5.0)	ND (5.0)	---	44.2	ND (5.0)	ND (5.0)	---	---	---	ND (20)
CW-04M	2/7/2005	ND (5.0)	ND (10)	69.9	ND (3.0)	ND (3.0)	ND (3.0)	9.20	ND (5.0)	ND (2.1)	ND (0.2)	11.5	ND (5.0)	ND (10)	ND (3.0)	ND (15)	95.3	31.6
CW-04M	2/23/2005	ND (3.0)	ND (5.0)	67.4	---	---	---	---	ND (5.0)	ND (5.0)	---	12.3	ND (5.0)	ND (5.0)	---	---	---	ND (20)
MW-14	9/8/2004	---	---	---	---	---	---	---	---	ND (21)	---	ND (21)	---	---	---	---	---	---
MW-14	5/11/2005	ND (2.0)	1.24	96.8	ND (1.0)	ND (1.0)	1.01	43.5	3.48	1.38	ND (0.5)	10.8	12.5	3.65	ND (1.0)	ND (1.0)	6.52	19.6 J
MW-18	9/8/2004	---	---	---	---	---	---	---	---	ND (21)	---	ND (21)	---	---	---	---	---	---
MW-18	5/11/2005	ND (2.0)	ND (1.0)	83.1	ND (1.0)	ND (1.0)	ND (1.0)	27.8	ND (1.0)	ND (1.0)	ND (0.5)	3.60	ND (1.0)	2.58	ND (1.0)	ND (1.0)	3.37	40.4 J
OW-01D	9/30/2004	ND (5.0)	ND (10)	102	ND (3.0)	ND (3.1)	ND (3.0)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	51.8	ND (5.0)	ND (10)	ND (3.1)	ND (15)	ND (3.0)	30.7
OW-01D	12/21/2004	ND (5.0)	ND (10)	113	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	ND (2.1)	ND (0.2)	35.6	ND (5.0)	ND (10)	ND (3.1)	ND (15)	10.7	36.0
OW-01D	5/10/2005	ND (2.0)	4.77	91.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.52	ND (1.0)	ND (0.5)	43.4	1.05	ND (1.0)	ND (1.0)	ND (1.0)	1.69	ND (10)
OW-01M	10/1/2004	---	---	59.7	---	---	---	---	ND (5.0)	ND (2.1)	---	26.8	ND (5.0)	---	---	---	---	46.1
OW-01M	12/21/2004	ND (5.0)	ND (10)	58.1	ND (3.1)	ND (3.1)	ND (3.1)	10.0	ND (5.0)	ND (2.1)	ND (0.2)	26.8	ND (5.0)	ND (10)	ND (3.1)	ND (15)	14.7	20.9
OW-01M	5/10/2005	ND (2.0)	2.69	51.6	ND (1.0)	ND (1.0)	ND (1.0)	15.7	2.41	ND (1.0)	ND (0.5)	23.5	4.68	ND (1.0)	ND (1.0)	ND (1.0)	5.45	13.1
OW-01S	12/21/2004	ND (5.0)	ND (10)	66.2	ND (3.1)	ND (3.1)	ND (3.1)	1.60	ND (5.0)	ND (2.1)	ND (0.2)	27.3	8.70	ND (10)	ND (3.1)	ND (15)	12.1	26.4
OW-02D	1/13/2005	ND (5.0)	ND (10)	83.3	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	2.90	ND (0.2)	66.5	13.5	17.1	8.50	ND (15)	17.7	17.4
OW-02D	5/10/2005	ND (2.0)	3.30	71.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.11	ND (1.0)	ND (0.5)	57.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
OW-02M	5/11/2005	ND (2.0)	1.65	60.3	ND (1.0)	ND (1.0)	ND (1.0)	5.85	ND (1.0)	ND (1.0)	ND (0.5)	35.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.96	11.3
OW-02S	12/29/2004	ND (5.0)	ND (10)	31.9	ND (3.1)	ND (3.1)	ND (3.1)	2.10	ND (5.0)	ND (2.1)	ND (0.2)	89.3	ND (5.0)	ND (10)	ND (3.1)	ND (15)	7.00	33.3
OW-03D	10/28/2004	---	---	40.7	---	---	---	ND (1.0)	ND (5.0)	ND (2.1)	---	43.7	ND (5.0)	---	---	---	---	28.8
OW-03D	12/14/2004	ND (5.0)	ND (10)	63.4	ND (3.1)	ND (3.1)	ND (3.1)	ND (1.0)	ND (5.0)	2.40	ND (0.2)	31.0	ND (5.0)	ND (10)	ND (3.1)	ND (15)	8.40	71.2
OW-03M	10/28/2004	---	---	55.5	---	---	---	11.2	ND (5.0)	ND (2.1)	---	20.6	ND (5.0)	---	---	---	---	ND (10)
OW-03M	FD 10/28/2004	---	---	56.0	---	---	---	9.40	ND (5.0)	ND (2.1)	---	20.5	ND (5.0)	---	---	---	---	ND (10)
OW-03M	12/15/2004	ND (5.0)	ND (10)	73.4	ND (3.1)	ND (3.1)	ND (3.1)	13.8	ND (5.0)	ND (2.1)	ND (0.2)	14.5	ND (5.0)	ND (10)	ND (3.1)	ND (15)	9.50	30.3
OW-03S	10/28/2004	---	---	20.6	---	---	---	12.1	ND (5.0)	4.60	---	23.9	ND (5.0)	---	---	---	---	20.4
OW-03S	12/15/2004	ND (5.0)	ND (10)	16.7	ND (3.1)	ND (3.1)	ND (3.1)	16.4	ND (5.0)	ND (2.1)	ND (0.2)	22.2	ND (5.0)	ND (10)	ND (3.1)	ND (15)	8.70	30.9
OW-05D	12/22/2004	ND (5.0)	ND (10)	78.4	ND (3.1)	ND (3.1)	ND (3.1)	1.30	ND (5.0)	ND (2.1)	ND (0.2)	81.1	8.10	ND (10)	ND (3.1)	ND (15)	13.3	24.3

**Table 1  
Results of Title 22 Metals, All PG&E Groundwater Sampling Programs, 2004-2005  
PG&E Topock Compressor Station**

Well ID	California MCL: Sample Date	6 Antimony	50 Arsenic	1000 Barium	4 Beryllium	5 Cadmium	NE Cobalt	50 Chromium	1000* Copper	NE Lead	2 Mercury	NE Molybdenum	100 Nickel	50 Selenium	100* Silver	2 Thallium	NE Vanadium	5000* Zinc
<b>IM3</b>																		
OW-05D	FD 12/22/2004	ND (5.0)	ND (10)	84.4	ND (3.1)	ND (3.1)	ND (3.1)	1.20	ND (5.0)	ND (2.1)	ND (0.2)	83.8	9.30	ND (10)	ND (3.1)	ND (15)	11.6	28.9
OW-05D	5/11/2005	ND (2.0)	4.41	65.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	4.09	ND (1.0)	ND (0.5)	63.8	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)
OW-05M	1/13/2005	<b>11.1</b>	14.4	60.1	<b>8.80</b>	<b>10.5</b>	10.0	8.40	10.6	10.2	ND (0.2)	50.1	20.1	18.6	20.0	ND (15)	22.9	37.3
OW-05M	5/11/2005	ND (2.0)	1.70	51.1	ND (1.0)	ND (1.0)	ND (1.0)	10.3	1.60	ND (1.0)	ND (0.5)	39.0	1.28	ND (1.0)	ND (1.0)	ND (1.0)	2.61	ND (10)
OW-05S	12/21/2004	ND (5.0)	ND (10)	51.3	ND (3.1)	ND (3.1)	ND (3.1)	26.6	ND (5.0)	ND (2.1)	ND (0.2)	21.3	ND (5.0)	ND (10)	64.9	ND (15)	12.9	25.6
OW-05S	5/11/2005	ND (2.0)	1.95	53.0	ND (1.0)	ND (1.0)	1.07	26.4	1.55	ND (1.0)	ND (0.5)	19.0	4.14	2.82	ND (1.0)	ND (1.0)	5.50	16.6
OW-05S	FD 5/11/2005	ND (2.0)	2.22	64.4	ND (1.0)	ND (1.0)	1.25	25.6	2.26	ND (1.0)	ND (0.5)	19.4	4.90	2.82	ND (1.0)	ND (1.0)	5.43	14.5

**NOTES:**

NE not established  
 ND not detected at listed reporting limit  
 FD field duplicate sample  
 J concentration or reporting estimated by laboratory or data validation  
 R1 MW-10 and MW-11, 6020 results were believed to be switched in the lab. Rejected.

BKG background study  
 CMP compliance monitoring program  
 GMP groundwater monitoring program  
 IM1 interim measures no.1  
 IM3 interim measures no. 3

Title 22 metals are the metals listed in California Code of Regulations, Title 22, Section 66261.24(a)(2)(A)  
 The maximum contaminant levels (MCLs) listed, in micrograms per liter (µg/L), are the California primary drinking water standards, or California secondary MCLs, where noted \* .

All results are dissolved metals concentrations in µg/L from field-filtered samples.

Metals analyzed by Methods SW 6010B, SW 6020A, and SW7470A.

Analytes detected above MCL are in bold.

**Table 2**

Maximum, Minimum, and Average Concentrations of Selected Metals in Groundwater, All PG&E Groundwater Sampling Programs, 2004-2005  
 Groundwater and Surface Water Monitoring Program  
 PG&E Topock Compressor Station, Needles, California

	Arsenic						Molybdenum						Vanadium						Zinc					
	High ug/l	Well	Date	Low ug/l	Well	Date	High ug/l	Well	Date	Low ug/l	Well	Date	High ug/l	Well	Date	Low ug/l	Well	Date	High ug/l	Well	Date	Low ug/l	Well	Date
<b>BKG</b>	35.6	PGE-09S	7/20/05	ND(1)	PGE-09N	5/11/05	50.4	MW-05	7/18/05	ND(1)	PGE-09N	5/11/05	47.2	MW-06	7/18/05	ND(1)	11 wells		1870	PGE-09S	5/11/05	ND(10)	19 wells	
	32.1	PGE-09N	7/20/05	1.07	MW-18	7/26/05	45.2	MW-05	5/13/05	ND(1)	MW-01	5/9/05	44.1	MW-06	5/13/05	ND(1)			896	PGE-09N	7/20/05	ND(10)		
	23.4	PGE-09S	5/11/05	1.53	MW-17	7/26/05	29.3	MW-03	5/9/05	ND(1)	MW-01	7/18/05	40.6	MW-01	7/18/05	ND(1)			655	PGE-09S	7/20/05	ND(10)		
<b>GMP</b>	110	MW-12	6/13/05	ND(1)	TW-02S	6/16/05	115	MW-10	9/21/04	ND(2)	TW-02S	6/16/05	326	MW-37D	3/11/05	ND(1)	TW-02S	6/16/05	217	TW-02S	12/16/04	ND(10)	TW-02S	6/16/05
	68.6	MW-12	9/20/04	1.53	MW-11	6/16/05	114	MW-10	6/16/05	ND(5)	MW-25	9/22/04	238	MW-34-080	3/8/05	ND(3)	MW-25	9/22/04	173J	MW-20-130	3/9/05	ND(10)	MW-10	6/10/04
	60	MW-12	6/9/04	1.59	MW-20-070	6/15/05	100	MW-10	12/17/04	ND(5)	MW-09	12/17/04	227	MW-34-055	3/10/05	ND(3)	MW-25	6/9/04	136	MW-20-070	3/10/05	ND(10)	MW-34-055	6/8/04
<b>IM3</b>	14.4	OW-05M	1/13/05	ND(1)	MW-18	5/11/05	89.3	OW-02S	12/29/04	3.6	MW-18	5/11/05	121	CW-02D	2/8/05	ND(1)	OW-05D	5/11/05	80.2	CW-01M	2/8/05	ND(10)	OW-05D	5/11/05
	ND(10)	OW-02S	12/29/04	1.24	MW-14	5/11/05	81.1	OW-05D	12/22/04	ND(21)	MW-14	9/8/04	116	CW-02M	2/9/05	ND(1)	OW-02D	5/10/05	71.2	OW-03D	12/14/04	ND(10)	OW-02D	5/10/05
	ND(10)	OW-05D	12/22/04	1.65	OW-02M	5/11/05	66.5	OW-02D	1/13/05	ND(21)	MW-18	9/8/04	115	CW-03D	2/8/05	ND(3)	OW-01D	9/30/04	52.2	CW-02D	2/8/05	ND(10)	OW-01D	5/10/05
		4.14																						
<b>CMP</b>	ND(10)	All	All	ND(10)	All	All	57	OW-05D	7/28/05	9.6	OW-01S	9/15/05	42.2	CW-02D	9/15/05	5	OW-01S	7/28/05	248	CW-01M	9/15/05	ND(10)	OW-01S	7/28/05
	ND(10)			ND(10)			51.2	OW-02D	7/28/05	11.3	OW-02D	9/14/05	34.2	CW-01D	9/15/05	6.8	OW-01S	8/26/05	215J	CW-02M	9/15/05	ND(10)	OW-05M	7/28/05
	ND(10)			ND(10)			48.8	OW-05D	8/26/05	11.6	OW-01S	8/26/05	34.1	CW-02M	9/15/05	7.9	OW-05S	9/13/05	111	CW-01D	9/15/05	ND(12)	OW-05D	7/28/05

**Averages**

	As	Mo	V	Zn
Background	7.5	11.3	15.4	71.1
GMP	11.5	33.0	48.9	45.0
IM3	4.1	36.5	37.0	23.8
CMP	ND(10)	27.0	15.5	27.2

**Notes:**

Units in ug/l

ND = not detected at the listed reporting limit

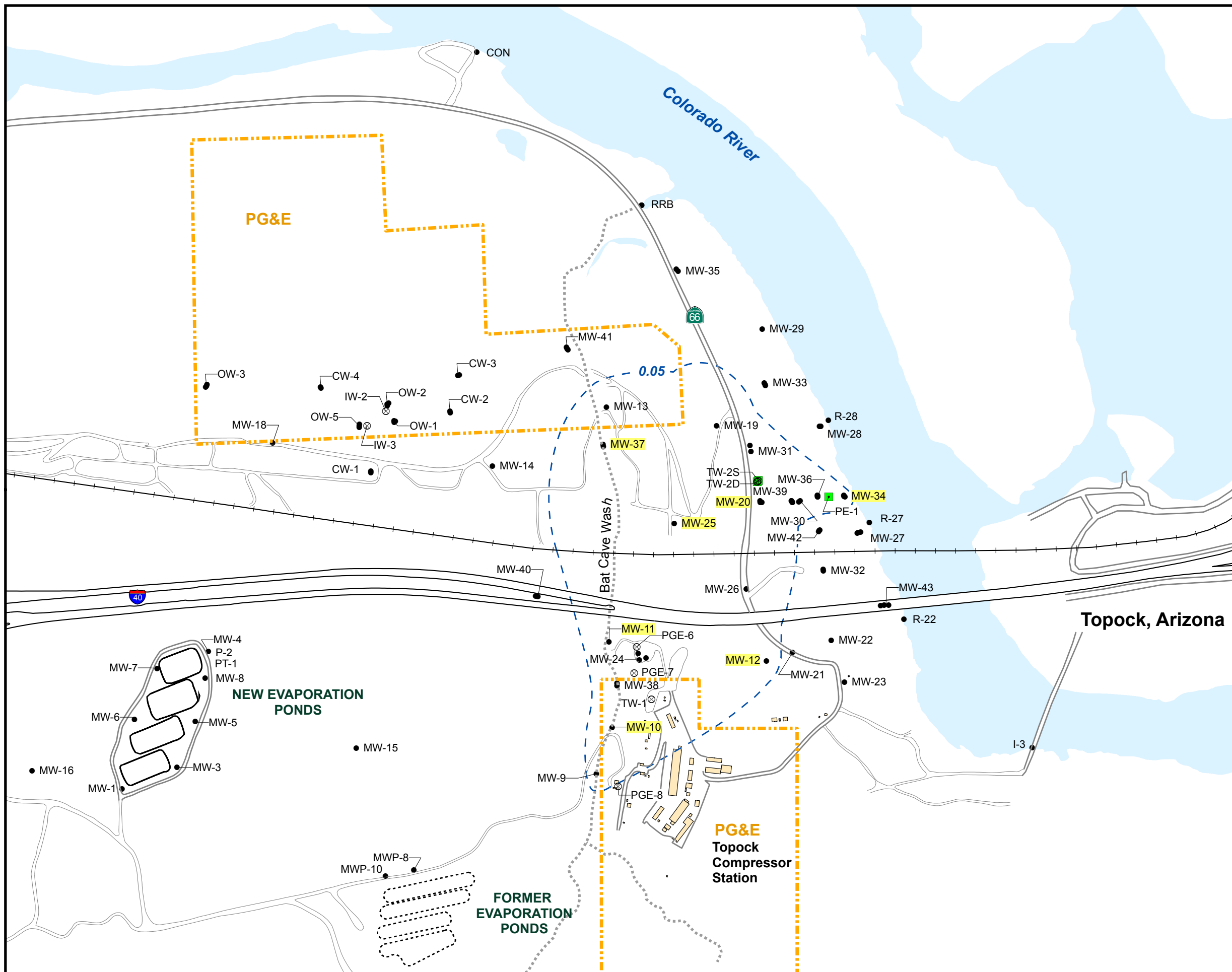
Averages: ND's = 1/2 RL

BKG = Background Study

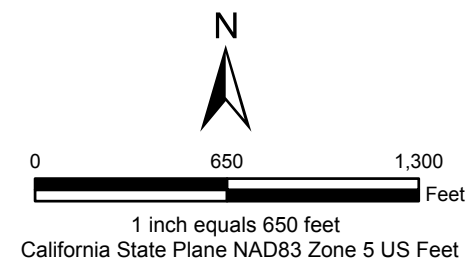
GMP = Groundwater and Surface Water Monitoring Program

IM = Interim Measures

CMP = Compliance Monitoring Program



- LEGEND**
- Groundwater Monitoring Well or Monitoring Well Cluster
  - ⊗ Injection or test well
  - Interim Measures Groundwater Extraction Wells Well
  - - - PG&E Property Boundary
  - - - 0.05 Approximate outline of hexavalent chromium in groundwater >= 50 ppb (June 2005)
  - MW-20 Well locations that are currently monitored for Title 22 metals under PG&E's Groundwater Monitoring Program (GMP)



**FIGURE 1  
GROUNDWATER MONITORING  
AND EXTRACTION WELL  
LOCATIONS**  
GROUNDWATER AND SURFACE WATER  
MONITORING PROGRAM  
PG&E TOPOCK COMPRESSOR STATION  
NEEDLES, CALIFORNIA