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March 6, 2003

Aaron Yue  
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Subject: Groundwater and Surface Water Sampling Results - Fourth Quarter 2002  
Corrective Action Consent Agreement for Bat Cave Wash Area  
PG&E Topock Compressor Station, Needles, California  
EPA ID No. CAT080011729

Dear Mr. Yue:

This letter transmits the results of the Fourth Quarter (December 2002) groundwater and surface water monitoring event for the Topock project. During this monitoring event, 26 wells and six locations along the Colorado River were sampled for the site constituents of concern. The results of the groundwater and surface water sampling are presented in Tables 1 and 2, respectively. The sampling locations are shown on the attached Figure 1. We have completed our data review of the sampling results and have determined that the results are usable for monitoring water quality conditions at the site.

If you have any questions, please call me at (925) 974-4081.

Sincerely,

Linda Gonsalves  
Senior Project Manager  
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Attachments

Mr. Aaron Yue  
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**Table 1**  
**Groundwater Sampling Results - September and December 2002**  
**Topock Compressor Station**

Well Number	Sample Date	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity μS/cm	pH
MW-9	17-Sep-2002	0.36	0.401	ND <0.0555	ND <0.0056	0.248	3,500	7.00
	10-Dec-2002	0.402	0.428	ND <0.02	ND <0.0278	0.255	2,620	7.36
MW-10 duplicate	17-Sep-2002	2.07	2.33	ND <0.02	0.0141	0.177	3,250	7.38
	10-Dec-2002	1.93	2.15	ND <0.02	ND <0.0278	0.119 J	3,940	7.48
	10-Dec-2002	1.97	1.79	ND <0.02	ND <0.0278	0.2 J	3,940	7.46
MW-11	17-Sep-2002	0.409	0.483	ND <0.0278	0.0157	0.443 J	2,430	7.70
	10-Dec-2002	0.584	0.696	ND <0.02	ND <0.0278	0.176	2,700	7.39
MW-12	18-Sep-2002	1.16	1.31	ND <0.0278	ND <0.0056	0.0845	4,010	8.29
	11-Dec-2002	1.25	1.61	ND <0.02	ND <0.0278	0.0694	5,310	8.34
MW-13	17-Sep-2002	0.0183	0.0345	ND <0.02	0.0116	0.171	2,040	7.46
	10-Dec-2002	0.0229	0.029	ND <0.02	ND <0.0278	0.172	1,700	7.54
MW-14	18-Sep-2002	0.031	0.0326	ND <0.02	0.0221	0.164	1,590	7.73
	10-Dec-2002	0.049	0.0484	ND <0.02	0.0285	0.498	1,430	7.69
MW-15	10-Dec-2002	0.0229	0.0194	ND <0.02	ND <0.0278	0.419	1,640	7.71
MW-16	10-Dec-2002	0.0198	0.0234	ND <0.02	ND <0.0278	0.191	1,470	7.87
MW-17	18-Sep-2002	ND <0.01	0.005	ND <0.02	ND <0.005	0.169	1,810	7.73
MW-18	18-Sep-2002	0.0323	0.0355	ND <0.02	ND <0.005	0.375 J	1,270	7.70
	10-Dec-2002	0.0354	0.0418	ND <0.02	ND <0.0278	0.188	1,440	7.60
MW-19	10-Dec-2002	0.761	0.75	ND <0.02	0.0101 J	0.356	2,260	7.52
MW-20-70	17-Sep-2002	8.24	9.79	ND <0.02	0.0137	0.478	3,280	7.62
	11-Dec-2002	8.76	13.8	ND <0.02	ND <0.0278	0.123	4,320	7.58
MW-20-100	17-Sep-2002	2.82	3.32	ND <0.02	0.0128	0.486 J	5,500	7.72
	11-Dec-2002	3.08	3.87	ND <0.02	ND <0.0278	0.0847	6,900	7.69
MW-20-130	17-Sep-2002	6.62	7.09	ND <0.02	0.032	0.203	14,520	7.71
	11-Dec-2002	6.10	9.89	ND <0.02	0.0112 J	0.132	20,900	7.68
MW-21	18-Sep-2002	ND <0.01	0.0019	ND <0.02	0.0166	0.099	11,320	7.13
	11-Dec-2002	ND <0.01	0.0074	ND <0.02	0.0172 J	0.337	13,690	7.02
MW-22	19-Sep-2002	ND <0.01	0.0139	ND <0.02	0.0203	0.119	27,690	6.86
	12-Dec-2002	ND <0.01	0.0035	ND <0.02	0.0175 J	0.118	32,800	6.75
MW-23	18-Sep-2002	ND <0.01	0.0072	ND <0.02	0.0308	0.221	16,400	6.95
	11-Dec-2002	ND <0.01	0.0095	ND <0.02	0.032	0.817	22,900	6.90

**Table 1**  
**Groundwater Sampling Results - September and December 2002**  
**Topock Compressor Station**

Well Number	Sample Date	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity µS/cm	pH
<b>MW-24A</b>	17-Sep-2002	3.29	3.49	ND <0.02	ND <0.005	0.308	3,270	7.75
	11-Dec-2002	3.40	4.10	ND <0.02	ND <0.0278	0.122 J	4,060	7.62
	duplicate 11-Dec-2002	3.43	4.16	ND <0.02	ND <0.0278	0.0693 J	4,270	7.66
<b>MW-24B</b>	10-Dec-2002	4.62	5.38	ND <0.02	ND <0.0278	0.3	13,980	7.91
<b>MW-24BR</b>	18-Sep-2002	ND <0.01	0.0035	ND <0.02	0.0063	0.152	13,540	8.09
	12-Dec-2002	ND <0.01	0.0034	ND <0.02	ND <0.0278	0.0662	16,160	8.15
<b>MW-25</b>	17-Sep-2002	2.56	2.79	ND <0.0278	0.0213	0.145	1,700	7.62
	10-Dec-2002	2.43	3.22	ND <0.02	ND <0.0111	0.167	1,840	7.56
<b>MW-26</b>	18-Sep-2002	3.72	3.11	ND <0.0278	0.0183	0.218	3,530	7.44
	11-Dec-2002	3.86	5.02	ND <0.02	ND <0.0278	0.144	4,500	7.60
<b>MW-27</b>	19-Sep-2002	ND <0.01	ND <0.0011	ND <0.02	ND <0.005	0.164	973	7.63
	12-Dec-2002	ND <0.01	0.0056	ND <0.02	ND <0.0278	0.213	1,220	7.61
	duplicate 12-Dec-2002	ND <0.01	0.0065	ND <0.0278	ND <0.0278	0.119	1,140	7.59
<b>MW-28</b>	19-Sep-2002	ND <0.01	0.0036	ND <0.02	ND <0.005	0.0965	1,299	7.47
	12-Dec-2002	ND <0.01	0.0039	ND <0.02	ND <0.0278	0.124	1,640	7.46
<b>MW-29</b>	19-Sep-2002	ND <0.01	0.0076	ND <0.02	0.0199	0.125	2,170	7.36
	11-Dec-2002	ND <0.01	0.0125	ND <0.02	0.0128 J	0.145	10,520	7.19
<b>MW-30</b>	19-Sep-2002	ND <0.01	ND <0.0011	ND <0.02	0.0071	0.042	49,900	6.91
	12-Dec-2002	ND <0.01	0.0035	ND <0.02	0.035	0.0963	58,900	6.70
<b>MW-31</b>	17-Sep-2002	3.64	5.06	ND <0.0278	ND <0.0056	0.262	2,880	7.60
	11-Dec-2002	3.88	5.62	ND <0.02	ND <0.0278	0.274	3,840	7.56

NOTES:

1. Table lists validated analytical results from 3rd Quarter and 4th Quarter 2002 monitoring. Concentrations in milligrams per liter (mg/L)
2. ND = not detected at listed analytical reporting limit, J = estimated concentration (result below reporting limit or qualified result from data validation)
3. Analysis methods: hexavalent chromium (SW 7196A), total chromium, copper, nickel, zinc (dissolved concentrations, SW 6020A) electrical conductivity (SW 9050), pH (SW 9040)
4. Park Moabi well and well MW-17 are sampled annually during 1st Quarter and 3rd Quarter, respectively.

**Table 2**  
**Surface Water Sampling Results - September and December 2002**  
**Topock Compressor Station**

Sample Location	Sample Date	Hexavalent Chromium mg/L	Total Chromium mg/L	Copper mg/L	Nickel mg/L	Zinc mg/L	Electrical Conductivity μS/cm	pH
CON	18-Sep-2002	ND <0.01	0.0040	ND <0.02	ND <0.005	0.308	941	8.14
	12-Dec-2002	ND <0.01	0.0073	ND <0.02	ND <0.0278	0.174	1,160	8.27
Vernal Pool	18-Sep-2002	ND <0.01	0.0179	ND <0.02	0.0216	1.06	981	7.93
	12-Dec-2002	ND <0.01	0.0141	ND <0.02	ND <0.0278	0.172	5,680	7.39
I-3	18-Sep-2002	ND <0.01	0.0044	ND <0.02	ND <0.005	0.096	936	8.09
	12-Dec-2002	ND <0.01	0.0057	ND <0.02	ND <0.0278	0.0847	1,130	8.32
R-22	18-Sep-2002	ND <0.01	0.0034	0.119	0.0244	0.226	935	8.21
	12-Dec-2002	ND <0.01	0.0067	ND <0.02	ND <0.0278	0.0761	1,060	8.31
R-27	18-Sep-2002	ND <0.01	0.0038	ND <0.02	ND <0.005	0.343	940	8.17
	12-Dec-2002	ND <0.01	0.0070	ND <0.02	ND <0.0278	0.135	1,090	8.30
R-28	18-Sep-2002	ND <0.01	0.0187	ND <0.0555	0.030	1.06	938	8.26
	12-Dec-2002	ND <0.01	0.0072	ND <0.02	ND <0.0278	0.11	1,060	8.31

NOTES:

1. Table lists validated analytical results from 3rd Quarter and 4th Quarter 2002 monitoring. Concentrations in milligrams per liter (mg/L)
2. ND = not detected at listed analytical reporting limit
3. Analysis methods: hexavalent chromium (SW 7196A), total chromium, copper, nickel, zinc (dissolved concentrations, SW 6020A) electrical conductivity (SW 9050), pH (SW 9040)