

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

From: Christopher Guerre [mailto:cguerre@dtsc.ca.gov]  
Sent: Wednesday, March 03, 2010 11:11 PM  
To: Piper, Jay/LAS; Aaron Yue  
Cc: Hong, Christina/LAC; Karen Baker; GCR4@PGE.COM; KMSu@PGE.COM; YJM1@PGE.COM  
Subject: Re: Topock GMP Monitoring Frequency Modification

Yvonne,

The revised GMP sampling frequency table attached to Jay Piper's 3/1/10 email appropriately reflects changes sought to the original proposal and, therefore, DTSC accepts this latest table.

As mentioned in your May 29, 2009 GMP proposal, another sampling program is needed to support design of the final remedy. Please complete this proposal and submit it to DTSC for review and approval by the end of the month. The proposal should include, but not be limited to, developing baseline conditions with a robust data set for select constituents in areas potentially affected by remedial alternatives (e.g., either injection/extraction and/or insitu methods). DTSC expects COPCs related to the facility (i.e., molybdenum, nitrate, selenium) to be included in the program as well as potential insitu byproducts (e.g., arsenic, manganese). Sampling related to anomalous data points (e.g., fluoride in well MW-10) is also suggested, especially for small data sets.

Your attention to this matter is greatly appreciated.

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5796 Corporate Avenue  
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(714) 484-5422, FAX (714) 484-5411  
>>> <Jay.Piper@CH2M.com> 03/01/10 7:02 AM >>>  
Chris,

This e-mail and attached table memorialize discussion and agreement at the February 25, 2010 Technical Call for the Topock groundwater monitoring program (GMP) sampling frequency modifications.

PG&E accepted your changes on the proposed modifications, as shown in the attached table. With your reply to indicate approval, the sampling frequencies shown in the right hand column of the attached Table 1 will take effect beginning with the March 8 start of the GMP semiannual sampling event.

Please respond by Wednesday March 3rd with your approval or comments on this summary frequency table, so we can incorporate this schedule with the upcoming sampling event.

There were also two, more general questions included with your notes on the sampling frequency proposal:

- 1) The idea of modifying the timing of the annual and biennial sampling events to coincide with water stage for the Colorado River, and
- 2) The idea of rapid results communication from quarterly and winter monthly events to facilitate agency review and discussion of follow-up action potentially in lieu of a contingency well trigger.

PG&E will review these two questions and we can have additional discussion on an upcoming Technical call.

Thank you,  
Jay Piper  
Project Manager  
CH2M HILL

**TABLE 1**  
**Revisions to Groundwater Monitoring Program (GMP) -- February 25, 2010**  
*PG&E Topock Groundwater Monitoring and IM Performance Monitoring Programs*

Well ID <sup>1</sup>	Sitewide GMP			
	2009 Sampling Frequency <sup>2</sup>	Proposed Sampling Frequency	DTSC Response	New Sampling Frequency (effective March 2010)
<i>Wells in Floodplain and Adjoining Areas</i>				
MW-12	Q	A	Q	Q
MW-19	A	<i>no change</i>	SA	SA
MW-20-070	SA	<i>no change</i>		SA
MW-20-100	SA	<i>no change</i>		SA
MW-20-130	SA	<i>no change</i>		SA
MW-21	Q	<i>no change</i>		Q
MW-22	SA	A	SA	SA
MW-23	Q	<i>no change</i>		Q
MW-25	A	<i>no change</i>		A
MW-26	SA	A	SA	SA
MW-27-020	A	<i>no change</i>		A
MW-27-060	A	<i>no change</i>		A
MW-27-085	Q	<i>no change</i>		Q
MW-28-025	A	<i>no change</i>	SA	SA
MW-28-090	Q	<i>no change</i>		Q
MW-29	A	<i>no change</i>	SA	SA
MW-30-030	2Y	<i>no change</i>		2Y
MW-31-060	A	<i>no change</i>	SA	SA
MW-31-135	A	<i>no change</i>		A
MW-32-020	A	<i>no change</i>		A
MW-32-035	A	<i>no change</i>	SA	SA
MW-33-040	Q	<i>no change</i>		Q
MW-33-090	Q	<i>no change</i>		Q
MW-33-150	Q	<i>no change</i>		Q
MW-33-210	Q	<i>no change</i>		Q
MW-34-055	A	<i>no change</i>		A <sup>3</sup>
MW-34-080	M	Q	Q	Q
MW-34-100	M	Q	Q	Q <sup>4</sup>
MW-35-060	SA	A	SA	SA
MW-35-135	A	<i>no change</i>	SA	SA

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Well ID <sup>1</sup>	Sitewide GMP			
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MW-36-020	A	<i>no change</i>		A
MW-36-040	A	<i>no change</i>		A
MW-36-050	A	<i>no change</i>		A
MW-36-070	A	<i>no change</i>		A
MW-36-090	SA	<i>no change</i>		SA
MW-36-100	SA	<i>no change</i>		SA
MW-39-040	2Y	<i>no change</i>		2Y
MW-39-050	A	<i>no change</i>		A
MW-39-060	A	<i>no change</i>		A
MW-39-070	A	<i>no change</i>		A
MW-39-080	SA	A		A
MW-39-100	SA	A		A
MW-42-030	2Y	<i>no change</i>		2Y
MW-42-055	Q	<i>no change</i>		Q
MW-42-065	Q	<i>no change</i>		Q
MW-43-025	A	<i>no change</i>		A
MW-43-075	A	<i>no change</i>		A
MW-43-090	A	<i>no change</i>		A
MW-44-070	Q	SA		SA
MW-44-115	M	Q		Q
MW-44-125	M	Q		Q
MW-46-175	M	Q	Q	Q <sup>4</sup>
MW-46-205	Q	SA		SA
MW-47-055	Q	SA		SA
MW-47-115	Q	SA		SA
MW-48	Q	A	Q	Q
MW-49-135	SA	A		A
MW-49-275	SA	A		A
MW-49-365	SA	A		A
MW-50-095	Q	A	SA	SA
MW-50-200	Q	A	Q	Q

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Well ID <sup>1</sup>	Sitewide GMP			
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MW-51	Q	A	SA	SA
MW-52M	Q	SA		SA
MW-52D	Q	SA		SA
MW-52S	Q	SA		SA
MW-53M	Q	SA		SA
MW-53D	Q	SA		SA
PE-01	M	<i>no change</i>		M
TW-02S	A	<i>no change</i>		A
TW-02D	A	<i>no change</i>		A
TW-03D	M	<i>no change</i>		M
TW-04	Q	A		A
TW-05	A	2Y		2Y
<i>Wells in Uplands and Interior Areas</i>				
MW-09	A	<i>no change</i>		A
MW-10	SA	<i>no change</i>		SA
MW-11	A	<i>no change</i>		A
MW-13	A	<i>no change</i>		A
MW-14	A	<i>no change</i>		A
MW-15	2Y	<i>no change</i>		2Y
MW-16	2Y	<i>no change</i>		2Y
MW-17	2Y	<i>no change</i>		2Y
MW-18	SA	A		A
MW-24A	SA	A	SA	SA
MW-24B	SA	A	SA	SA
MW-24BR	Q	A	Q	Q
MW-37D	A	<i>no change</i>		A
MW-37S	A	<i>no change</i>		A
MW-38D	A	<i>no change</i>		A
MW-38S	A	<i>no change</i>		A
MW-40D	SA	A		A

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Well ID <sup>1</sup>	Sitewide GMP			
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MW-40S	2Y	<i>no change</i>		2Y
MW-41D	SA	A	SA	SA
MW-41M	A	<i>no change</i>		A
MW-41S	SA	A		A
OW-03D	2Y	<i>no change</i>		2Y
OW-03M	2Y	<i>no change</i>		2Y
OW-03S	2Y	<i>no change</i>		2Y
PGE-7BR	A	<i>no change</i>		A
PGE-08	2Y	<i>no change</i>		2Y
TW-01	2Y	<i>no change</i>	Q	Q
Park Moabi 3	A	<i>no change</i>		A
Park Moabi 4	A	<i>no change</i>		A

**NOTES:**

- <sup>1</sup> Table lists only the sitewide GMP wells and selected additional wells that serve IM performance and the after RFI/RI Volume 2 monitoring needs. Wells monitored under existing WDRs and the 2007-2008 Arizona and 2009 East Ravine groundwater investigations are monitored separately and not listed.
- <sup>2</sup> **Sampling Frequencies:** Monthly (M), Quarterly (Q), Semiannual (SA), Annual (A), every 2 years (2Y). The most recent 2Y event was October 2009.
- <sup>3</sup> Annual sample to be collected during winter quarter at low Colorado River stage
- <sup>4</sup> Monthly sampling to be performed November through February, otherwise Quarterly