From: Miranda Maupin
To: Wetmore, Cynthia
Cc: Cynthia Babich; pemodog@sbcglobal.net; LEONIDO-JOHN, STEVEN; Barton, Dana; Sanchez, Yolanda; Yogi, David; Safouh.Sayed@dtsc.ca.gov; Scandura, John@DTSC; Senga, Robert@DTSC; James Wells; Markus Niebanck; dcapjane@aol.com
Subject: Re: Phase I testing.
Date: Thursday, March 19, 2015 9:12:17 AM
Attachments: image003.png

Hello all, just a reminder that we have a call at 11am this morning for Cynthia Wetmore to review the information outlined below. This may just be a short 20-30 minutes call because as Cynthia mentions in her email, she will only be able to discuss what is already outlined in the email due to the confidentiality order.

Here is the conference line: 1-434-326-4368; pin: 6287

Thank you!
Miranda

Miranda Maupin

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On Tue, Mar 17, 2015 at 2:38 PM, Wetmore, Cynthia <Wetmore.Cynthia@epa.gov> wrote:

> Hi Cynthia,
>
> As John Lyon's mentioned in the previous call, EPA is operating under a confidentiality order which limits what we can discuss to only publicly available information, which for purposes of the functional testing includes only the Phase I functional test. As EPA moves to approve each phase or step, EPA will work to get a releasable document to share with you. The Phase I test and results are as follows.
>
> The Phase I test was developed to test one component of the HiPOx unit, the ozone generator. The design requires the ozone generator in HiPOx system to operate with a range between 23.7 to 27.2 mg/l of ozone. Previous Functional testing in December demonstrated that the system could produce 23.7 mg/L. Phase I was designed to demonstrate the system's ability to produce 27.2 mg/L ozone. The ozone when mixed with hydrogen peroxide forms a strong oxidant that reduces concentrations of all organic compounds including pCBSA.
>
> The Phase I test was run on February 26, 2015. Although the HiPOx ozone dose system was set at 27.3 mg/L, the system was not able to maintain that rate. An average ozone dose of 25.9 mg/L, was achieved for the test. Samples were collected after each unit and the concentrations are as follows:

Constituent	Concentration in Groundwater (ug/L)				Concentration in Air (ppmv)	
	Influent	Post-HiPOx	Post-Air Stripper	Post-LGAC	VGAC Influent	Discharge Stack
pCBSA	48,000	34,000	31,000	<5	NA	NA
MCB	8,400	3,400	85	<0.5	5.7	<0.0005
CF	1,700	1,600	34	<0.5	5.5	<0.0005
Benzene	<100	<40	0.34 J	<0.5	0.14	<0.0005
1,2-DCA	<100	<40	0.78	<0.5	0.020	<0.0005
PCE	67 J	48	<0.5	<0.5	0.12	<0.0005
TCE	<100	<40	<0.5	<0.5	0.021	<0.0005

TBA	<2,000	<800	12	10	NA	NA
Arsenic	6.9	5.7	5.0	2.1	NA	NA

EPA does not believe the Phase I test met its objective to verify the full range of the ozone dosage system.

-Cynthia W.

Cynthia Wetmore, Technical Support Section

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