

From: [Linda Brookins](#)
To: [Marlo Berg](#); [Joel Klumpp](#); [Ada Lichaa](#); [James Weddell](#); [Jack Schulze](#); [Alicia Diehl](#)
Subject: FW: Real Time Crypto/Giardia Testing
Date: Wednesday, July 24, 2013 5:31:38 PM

FYI -

From: Russell Schreiber [mailto:russell.schreiber@wichitafallstx.gov]
Sent: Wednesday, July 24, 2013 4:56 PM
To: Linda Brookins
Subject: Re: Real Time Crypto/Giardia Testing

Linda

Daniel has some information related to this topic we will share with your team tomorrow. May be a potential solution to on site real-time monitoring.

Other topics I would like to discuss tomorrow include;

The air gap, isolation of the DPR system during FSV (something along the lines of our conversation yesterday)

Pre-treatment suggestions from Marlo

The City;s desire to have sit down meeting in Austin with you and your team to work out any outstanding issues. The idea would be to eliminate some of the back and forth with questions and answers. A good example would be the air gap issue. Based on the conf call last week we know the TCEQ likely will not accept our response to this issue in the second set of questions. Which in turn basically leaves the matter unresolved. A very frank discussion and both sides finding some common ground would be much more productive and could potentially resolve issues much quicker.

The conf calls are good, but are also time constrained. The time frame we have in mind would be after your guys have had some time to digest our response to the 4th set of questions. The idea would be to try and save as much of everyone's valuable time as possible.

I just wanted to give you a heads up to give you a little time to think about this before our call tomorrow.

Looking forward to talking to you tomorrow.

Thanks

Russell Schreiber P.E
Director of Public Works
City of Wichita Falls Texas
940 761 7477

On Tue, Jul 23, 2013 at 1:17 PM, Russell Schreiber <russell.schreiber@wichitafallstx.gov> wrote:
Linda

Give us a little time to digest this and come up with some times to discuss.
I'll be in touch

Thanks.

Russell Schreiber P.E
Director of Public Works
City of Wichita Falls Texas
[940 761 7477](tel:9407617477)

On Tue, Jul 23, 2013 at 1:07 PM, Linda Brookins <linda.brookins@tceq.texas.gov> wrote:
Russell,

As we discussed this morning, TCEQ staff met to discuss the real time crypto/giardia testing at the WF proposed DPR facility. We concluded the following:

1. The facility needs to have a “quick time” indicator for Crypto/Giardia. That exceeding the trigger for this indicator would require plant shut down (not continuing making water while waiting for off-site sample results).
2. That the rt-PCR method seems the best indicator available at this time.
3. Originally, the City and TCEQ thought that the method could be used on the Wastewater effluent. The City reported that may not possible. So we are suggesting that the City study 5 different locations during the verification study. By sampling each location during the study we can see which location gives the most consistent results to pick the location. From there we can use what is found during the study to set the shut-down trigger level. Also, we can determine how often the real time monitoring needs to occur during full scale operation.
4. As a note - There is a chance that there will not be consistent results during the verification study. If so, the City will need to propose another trigger to alert the system to levels of crypto/giardia that are higher than the DPR plant can treat.

I am attaching a spreadsheet that shows how often and where we think the City should sample using the rt-PCR method during the validation study. TCEQ is open to any suggestions the city may want to offer as a “quick time” Crypto/Giardia indicator. If you still want to conference before Thursday this week, we are currently checking our availability. Please share your available dates/times to talk. Thanks.

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