

From: Trent Ott <tott@fecinc.us>
Sent: Thursday, June 11, 2020 1:32 PM
To: Ackerman, Jeffrey A - DNR
Subject: Re: DB Oak Work plan questions

Jeff-

The monitoring wells will be set at 20 feet with 10 foot screen (screened 10 to 20). The "A" piezometers will be set at 45 feet with 5 foot screen (screened 40 to 45). The "B" piezometer will be set at 85 with 5 foot screen (screened 80 to 85).

The wells will be purged with a bailer and water containerized pending disposal approval. We use a bottom-discharge device when collecting samples but not when bailing.

Trent.

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On 6/10/2020 1:47 PM, Ackerman, Jeffrey A - DNR wrote:

A few follow-up questions for you Trent.

1-how deep are the proposed wells going to be?

6-what are your specific plans for purging the wells? Do you use a bottom-discharge device for the bailer or just pour?

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Jeff Ackerman

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From: Trent Ott <tott@fecinc.us>
Sent: Monday, June 8, 2020 11:59 AM
To: Ackerman, Jeffrey A - DNR <Jeffrey.Ackerman@wisconsin.gov>
Subject: Re: DB Oak Work plan questions

Jeff-

In response to your questions about the workplan:

1. Are you targeting a certain interval or geologic units with the piezometers? I think the zone concept, used in the past, has been too loose of a concept. **No, as based on the boring logs reviewed there does not appear to be differentiating geologic units beyond intermittent silt and clay seams within the sands found at depth across the site. Well installation activities outlined in the 2007 Supplemental SI Report by Newfields, indicate the depths of the piezometers were determined through groundwater zone samples and were set just below an area of higher GW concentration and at a minimum generate useful information to evaluate the contaminants at different depths across the site.**
2. What are you planning for the well drilling method(s)? **All of the wells will be installed utilizing standard hollow stem auger drilling methods.**
3. Will you do any hydraulic conductivity testing? I think the early K test work was mis-interpreted. **Hydraulic conductivity testing was not included as part of this scope; however, we can review the past data and include updated testing in future scopes if warranted or requested.**
4. Can you confirm that the piezometers will have 5-foot-long screens? **Yes, the piezometers will be installed with 5-foot screens.**
5. How often will you collect samples for geologic characterization and what will that characterization entail? **Soil samples will be collected every 10 feet for visual classification in general accordance with the Unified Soil Classification System (USCS).**
6. What is the specific well sampling method(s) you are going to use? **As per our workplan, following well purging, each sample is collected with a disposable polyethylene bailer and transferred to the appropriate containers depending on which laboratory parameters are to be analyzed. The water samples are stored on ice in a cooler and submitted to the laboratory within allowable holding times.**

Trent

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On 5/20/2020 3:16 PM, Ackerman, Jeffrey A - DNR wrote:

Hi Rick, Greg, and Trent,

I am nearly ready to issue the workplan approval, but have questions for you first:

1. Are you targeting a certain interval or geologic units with the piezometers? I think the zone concept, used in the past, has been too loose of a concept.
2. What are you planning for the well drilling method(s)?
3. Will you do any hydraulic conductivity testing? I think the early K test work was mis-interpreted.
4. Can you confirm that the piezometers will have 5-foot-long screens?

5. How often will you collect samples for geologic characterization and what will that characterization entail?
6. What is the specific well sampling method(s) you are going to use?

Thanks, Jeff

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Jeff Ackerman, P.G.

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