

12/2/2015 RAB Meeting

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## 12/2/2015 RAB Meeting Notes

- 1) Introductions of all attendees
- 2) Review Minutes
  - Motion to accept meeting minutes
  - Accept

Amec Foster Wheeler provides the Soil Gas Sampling from 2012 to 2015.

Amec Foster Wheeler then went on to describe the previous soil gas sampling event August 2010 to April 2014.

Amec Foster Wheeler showed 3-D of soil gas.

Amec Foster Wheeler provides a comparison of previous sampling events vs. October 2015.

- Amec Foster Wheeler provides a description of the comparison of previous soil gas events with the October 2015.
- Amec Foster Wheeler also shows the silty shallow soils and how the shallow soils cap the deeper soil gas.
- Amec Foster Wheeler shows the previous soil gas data.

NHDES comment: do we need to get additional soil gas data in the white/blank areas with no data point?

There was a lengthy discussion of when to complete the data gap associated with soil gas areas that do not currently have vapor points installed.

NHDES and COE NAE agreed to further discuss the soil gas and potentially other data gaps at a later date.

Amec Foster Wheeler personnel provided a discussion of Diffusion vs. Gradients of the soil gas.

Versteeg asked a question about how long it is going to take to remove the soil vapor (get input from Rod on this issue).

NHDES and COENAE explain that soil vapor extraction is not the end game or the final remediation. Soil vapor extraction as currently configured is to do mostly mass removal of TCE from the soils at CRREL in particular the pilot test at AOC2.

SVE system and the site is expected to show a rebound of TCE concentrations in soil gas once the system is shut off. It was explained that most SVE systems in operation have seen these rebound affects when they have been shut down after reducing the concentrations of VOCs in soil gas.

There was a discussion of the various phases of contamination at the site soil vs. soil gas vs. moisture in the soil.

Amec Foster Wheeler then provided an overview of the October 2016 data set viewed in 3 Dimensions.

Johnathan asks about just venting the soil to remove the TCE, would this be possible and acceptable?

NHDES indicates this is not possible without treatment as NHDES has very low discharge standards.

There was a discussion of the future rebound testing of the SVE system. Rebound testing to likely occur in December 2015 or January 2016.

NAE indicated and discussed a future of the EE/CA and the 100% Design for SVE.

NAE discussed the schedule for the RI Report and some of the complicating factors associated with doing Risk Assessment using Summa data vs. Hapsite data sets.

Hapsite data set for Risk Assessment currently consists approximately 4000 to 5000 data points.

NAE and Amec Foster Wheeler are still discussing the best way to deal with the Hapsite grab samples and some of the Time Weighted Hapsite samples.

There was some limited discussion of MADEP findings of Time Weighted vs. Grab samples and how the MADEP data was showing good correlation of Hapsite to Time weighted Summa samples.

Continue with discussion of the RI activities and future schedule.

Anticipate RA discussions complete and of RA activities.

Currently anticipate RI Report to the corps for Draft Final Review Late February 2016.

Anticipate RAB Review for the RI Report Late March 2016.

The FS will likely follow in June/July 2016.

The first draft RI will be the Army Draft and will be for COE NAE review and comment.

There was a question if Draft RI Army copy will be provided to NHDES for early review with follow up discussion. The NHDES would prefer an Army reviewed copy of the Draft RI.

Adequacy of the HHRA will be reviewed by the Army Public Health Center and their comments will need to be addressed before the RI Report and associated HH Risk Assessment will be released to public and NHDES.

CEX Omaha Corps. will also review Internal Army Draft RI.

NHDES does not feel that the RI will be complete without certain aspects being addressed and included. Items such as complete characterization of soil gas at CRREL. COE NAE and NHDES will

address and discuss the various data gaps and aspects at later meeting between Army COE and NH DES.

NHDES indicates they would like to see a complete RI document from the Army before agreeing to future items in the CRREL Project schedule.

The discussion by Amec Foster Wheeler then moved on to Residential wells in VT and a discussion of the VT well sampling program.

The VT wells were sampled with PDB samplers for VOCs analysis only.

Samples have been retrieved and are being analyzed and validated by an offsite analytical lab.

There are no results for the VT well available as of today's RAB Meeting.

Amec Foster Wheeler then provides a description and overview of the upcoming Bathymetry work for CT River.

Amec Foster Wheeler also indicates the Richmond Middle School sampling will be upcoming in December 2015/2016 Christmas break. Analysis of IA RMS samples will be completed via the Hapsit unit

The CRREL IA sampling will be Event 13 and will be occurring in January/February 2016 time frame.

NHDES asks if the VT wells are in communication with the CT river?

There was some brief discussion of various investigation methods for the CT River and review sediment and out fall data previously collected by others. There will be additional presentations and discussion on this topic after the Bathymetry survey of the river is complete in 2016.

Amec Foster Wheeler and COE will send out email with suggestions for a date for the next RAB meeting, which will likely be in the spring of 2016.

COE NAE and CRREL are looking for new members for the RAB. Potential new members should contact Darrell Moore

The RAB meetings are open to all at CRREL and the public at large. Notices are posted at CRREL and in the local paper.

The RAB meeting was adjourned at 5:50 p.m. by a motion, a second and a unanimous vote to adjourn.