Supplemental Site Characterization Triad Meeting No. 1, September 12, 2013

Former Galena Forward Operating Location, Alaska
AFCEC Contract FA8903-08-D-8769, Task Order 0357

ATTENDEES:	AL Weilbacher/AFCEC	Win Westervelt/CH2M HILL
	Paul Bernheisel/AFCEC	Andi Beausang/CH2M HILL
	Dennis Shepard/ADEC	Vivian Tokar/CH2M HILL
	Margaret Moody/ADOT	KT Matolcsy/CH2M HILL
	Sam Myers/ADOT	Ron McComb/CH2M HILL
	Donna Kozak/BAH	Lauren Mancuso/CH2M HILL
	Angela Sederquist/BAH	
FROM:	CH2M HILL	
DATE:	September 13, 2013	

Members of the Air Force, ADEC, ADOT, CH2M HILL, and Booz Allen Hamilton participated in the Former Galena FOL Triad call held via Live Meeting on September 12, 2013, at 10 am.

Agenda:

1. Safety moment.
2. Field work status update.
3. Discussion of new site data and evaluation of progress towards SSC Work Plan objectives.
    - Initial Round- B1812 – DRO, RRO, GRO, and VOC rush data available
        - DRO exceeds the Method 2 CUL on the northwest edge of the site at 32-34 ft bgs (refer to Figure 18 in the "2012_SC_Report_UST15783_B1812 PDF file" – Cross-Section B-B' for a depiction of similar deep DRO-contaminated soil at the bottom of the variably saturated zone [VSZ]).
        - One step out is recommended to define the northwest edge of DRO contamination.
        - TCE, naphthalene, bromomethane, and methylene chloride exceed the Method 2 CUL at multiple depths at sample locations GP007 and GP008 on the west and northwest edge of the site.
            - There is one error identified in the data file and figure provided on Wednesday, 9/11 - In the excel file, the 1,1,2,2-tetrachloroethane detected in sample B1812GP-008SO_32-34 is reported as 13 (J) mg/kg. The chromatograph was reviewed by the project chemist and the lab and 13(J) mg/kg is a false positive. The lab is sending a revised report with a final non-detect result of 0.44(U)mg/kg.
        - No step outs are recommended for the TCE detections at GP007.

    - Initial Round- TU001 – DRO, RRO, GRO, and VOC rush data available

- DRO (max 4,440(J) mg/kg) and GRO (max 1,000(J) mg/kg) exceed the Method 2 CUL at all three hand auger locations from 0 to 5 ft bgs. At location HA013 the auger was advanced to 10ft bgs and at that depth GRO and DRO were detected below Method 2 CULs.
- 1,1,2,2-Tetrachloroethane was detected above the Method 2 CUL at location HA012 in the 0-2ft bgs depth interval but was not detected in the 3-5ft bgs depth interval.
- No step outs are recommended for TU001. Photos of the 2013 sample locations are provided.

4. Open discussion for other items
5. Schedule update for upcoming activities

Safety Moment

Win stated the call with a brief discussion of ladder safety and reminded everyone to keep three points of contact when working on ladders.

Field Work Status Update

Win provided an update on the status of field work activities:

- 93/104 Wells sampled (11 remaining) and estimated that well sampling will be completed by Saturday 9/14.
- 22/22 wells installed.
- 31/31 soil borings completed.
- 9/9 grab groundwater grab samples completed.
- 6/6 hand auger soil sample locations completed.
- Transducer downloads complete.
- Well inspections have been performed. Well 09-MW-04 was damaged during the flooding but the field team was able to fix the well. Well 09-MW-16 (located west of the runway and south of Million Gallon Hill) was also damaged during the flooding and may need to be abandoned. The bollards have been damaged, there is a gap in the riser pipe, and the pump only goes 5-6ft. At one point this well was under 3ft of water due to the flood. The field team will be talking another look at this well to see if it can be repaired.
  - *Update on well 09-MW-16 received on Thursday 9/12 from Ron McComb: Field crew took another look at 09-MW-16 and determine that they could remove the uppermost damaged joint and that no infilling had occurred into the large gap. This well will be repaired.*

New Site Data and Evaluating Progress toward Work Plan Objectives

The following sites were discussed:

- B1812
- TU001

Win started the discussion of B1812 by reviewing historical information from the Site Characterization Report for B1812. The 2012_SC_All_Exceeds figure and DRO cross sections A-

A' and B-B' were reviewed to help visualize the existing knowledge of the DRO contamination. The 2013 results continue to show broad contamination throughout the variably saturated zone.

- Dennis asked if we saw evidence of TCE overlapping DRO and Win responded that it did not appear so. Win stated that this site is similar to others he's evaluated at Galena where the soil results are showing TCE from the underlying groundwater contamination.
- Dennis noted that he is concerned that they may be additional TCE soil sources. Donna commented that TCE contamination will be further discussed in the next Triad call with Parsons for sites S1850 and SS006, which are immediately north of B1812.

One soil boring step out was proposed on the northwest edge of the site. Dennis asked if we were stepping out far enough. Win noted that proposed step out sample is approximately 35ft from sample B1812_GP008. Win also pointed out that Parsons drilled two soil borings (SS006_GP020 and SS006_GP021) just north of the stepout location.

- Triad Decision on B1812: Team concurred that one additional soil boring on the northwest side of B1812 is required. Soil boring will include samples at all six depth intervals and for all analyses previous sampled for in 2013 soil borings (GRO, DRO, RRO, VOC, SVOC, PAH)

TU001

Vivian started the discussion of the three hand auger samples collected by TU001 by showing the team three photos of the sample locations. The hand auger area is immediately west of the fence surrounding the power plant and is commonly referred to as a ditch or drainage swale. This area is suitable for hand auger sampling only.

Dennis requested to see a cross section of the area and the team reviewed cross section B-B' and C-C' from the TU001 SC Report. From cross section B-B' it appears that contamination is vertically delineated at TU001_HA013. Dennis stated that he will need more time to look at the TU001 data.

TU001-HA011 was completed to 5 ft bgs and the DRO and GRO are not vertically delineated in this area. Donnas asked the field team about the possibility of hand auguring to 10 ft bgs at this location.

- Lauren said that it is possible to hand auger to 10 ft. Ron asked if the sample could be moved 10 to 25 ft south of TU001_HA011 to an area where the DPT rig could be used to collect a sample. Win responded that we wanted to keep the samples closer to the ditch because we expected to see some seeps from the slope behind the power plant and the ditch is the collection point.
- There was some team discussion about collecting a "clean" sample using hand auger at the 8-10ft depth (since the hand auger will be going through an area of contamination). Dennis asked if there was a way to auger a hole large enough to then use some type or core or casing to collect the deeper sample. The field team will look at the available options and collect a sample with as much integrity as possible.

- Triad Decision on TU001: Team concurred that a step-down sample is required at location TU001-HA011 to collect a soil sample from the 8-10ft depth interval. All analytes previously sampled for in TU001_HA011 subsurface soil will be collected (GRO, DRO, RRO, VOC, Pesticides)

After the Triad call, Ron McCombs walked the drainage ditch and determined that it is possible to collect one more HA sample in the ditch (which turns to the west) north of HA010/13 and one more HA sample 30-35ft directly north of HA013 to evaluate the lateral extent of DRO in the 3-5ft interval. These two hand auger boring would include 2 intervals to 5 feet for GRO, DRO, RRO, VOCs, PAHs and Pesticides.

Open Discussion for Other Items

Dennis reported that the Corps of Engineers received results of the analysis of soil cuttings from their investigation of the dike and 2 of the 3 samples are below cleanup levels. They are still waiting on the results of the 3rd sample.

Dennis said that comments on ST005 report are on their way this week but comments on the Groundwater Report won't be available until next week. Dennis is planning on traveling to Galena on Friday (9/13/2013).

Schedule Update for Upcoming Activities

A second Triad call may be scheduled next Monday or Tuesday (9/16 or 9/17) on UST1400 and UST1401 results, if the data are available. Dennis confirmed that he is available either day. The last barge is currently scheduled for 9/20 and next week will be the last available time for any Triad calls and drill rig sampling for 2013.

Call concluded at 11am.