

## AFCEE Galena Triad Meeting No. 3

ATTENDEES: See Attached  
FROM: CH2M HILL  
DATE: July 21, 2011

The Galena Triad meeting/teleconference was attended by members of the Air Force, ADEC, ADOT, CH2M HILL, Booz Allen Hamilton, and SLR. Please see the attached **Galena Triad Team Contact List** for attendees.

### Agenda:

1. Safety moment
2. Status update for field work activities
3. Review of action items and conclusions from previous Triad meeting. Approval of minutes
4. Discussion of new site data and evaluating progress toward Work Plan objectives
5. Identifying additional work needed and/or concurrence that Work Plan objectives have been met
6. Open discussion of other items
7. Schedule update for upcoming activities

### Well Screen Intervals

On July 15, 2011, CH2M HILL submitted a technical memorandum to ADEC justifying revised screen lengths for 31 "Phase 1" monitoring wells. A revised version of the memo was sent via email on July 21, 2011, documenting changes to information on the cross-sections.

Win Westervelt explained that the purpose of the memorandum was to provide ADEC a summary of available site information and rationale for proposed screen lengths in response to questions and comments made by ADEC during the May 24 comment resolution meeting. CH2M HILL had interpreted ADEC's comments to be that shorter screen lengths were desired instead of the 20-foot screens that were originally proposed, and therefore reevaluated all the proposed screen lengths for Phase 1 wells. It was inadvertently missed until ADEC notified Air Force and CH2M HILL via e-mail on July 20 that the revised screen lengths had not been resubmitted to ADEC for concurrence before well installation began. This oversight in the review process was not intentional. As of July 20, a total of 16 wells had been installed with the revised screen lengths.

Fred Vreeman/ADEC had concerns on wells that were installed vs. those approved in ADEC's May 31, 2011, comments on the draft FSP. ADEC had previously approved 20 of the 31 originally proposed wells.

After further discussion, a decision was made to hold a separate teleconference following the Triad meeting to come up with and agree to well screen intervals for all Phase I wells. This teleconference was scheduled for 1:00 p.m. Alaska time the same day.

## Safety Moment

None this meeting

## Status Update of Field Work Activities

Melissa Buciak/CH2M HILL recapped field activities since the last Triad meeting:

- SS016 (TO259) – completed soil borings and groundwater samples
- SS017 (TO259) – installed three additional source area delineation borings (GP002, 005, 008)
- Performed weekly bioreactor monitoring
- TO259 grubbing finished yesterday, now hauling material to landfill
- Have installed 16 of the approved 20 wells, and 10 have been developed (remaining 4 wells do not have ADOT permit approval)
- Have completed background soil samples at 30 hand auger locations
- To date have completed approximately 120 borings

Next week: SS015 stepout samples

## Review of Action Items, Approval of Minutes

Received ADOT's approval on the last Triad meeting notes; ADEC will send their approval.

A discussion of the need for an upgradient GW sample at UST1859 was held. Although the proposed stepout locations for UST1859 were agreed to during the first Triad call, the AF realized that an upgradient groundwater sample is also needed. Fred agreed and suggested that the AF consider completing the location as a monitoring well for long-term compliance. The Air Force will consider this and confirm decision during a follow-up Triad call.

- ➡ CH2M HILL and ADOT will look into the permitting for that stepout location.

## New Site Data and Evaluating Progress toward Work Plan Objectives

Items discussed this week included SS014 Source Area Delineation; SS017 Source Area Delineation; Excavation Soil Screening – DRO/GRO/benzene concentration in soil (mg/kg) vs. PID headspace (ppm).

### SS014 Source Area Delineation

Robert Thompson discussed the results from the SS014 source delineation samples. Based on the results, it was proposed to keep the currently planned excavation limits for the 2011 IRA. The team agreed.

### SS017 Source Area Delineation

Robert Thompson then discussed the results from the SS017 source delineation samples. Areas of contamination were noted to the west of the proposed excavation limits. However, due to utilities in the area, the team agreed to keep the currently proposed excavation limits for the 2011 IRA.

- CH2M HILL will develop a prioritization matrix of the excavation sites to balance the overall excavation amount at 20,000 cy.

### **SS014 and SS017 Correlation between Soil Analytical Results and Headspace PID Results**

Win presented scatter plots showing PID readings vs. concentrations of benzene, GRO, and DRO at the proposed excavation areas. The purpose of these plots was to discuss if PID screening was appropriate to be used during excavation to determine which soils will go to the landfill and which to the covered stockpile.

Fred suggested considering the migration to surface water concentration as the criteria for benzene instead of the inhalation cleanup level. Win discussed that the hydrocarbon risk calculator will be used to evaluate the migration to surface water risk, but all of the required input data (EPH, VPH, and PAH data) were not yet back from the lab. The team agreed that there may be better screening methods than headspace PID for segregating soils. In addition to the headspace PID screening, CH2M HILL is looking into other screening possibilities in the lab. These include UV, IR, and OIL-IN-SOIL™, a colorimetric system. OIL-IN-SOIL is being tested in the lab and we will have the results back for discussion during the August 2<sup>nd</sup> or 16<sup>th</sup> Triad call.

Fred distributed an EPA report on another potential screening tool for consideration.

- Fred Vreeman and Amanda Loomis said CH2M HILL should be good to go for August 1 excavation. The approval of the IRA Workplan should be coming soon.

### **Additional Work Needed and/or Concurrence that Work Plan Objectives Have Been Met**

None noted

### **Open Discussion for Other Items**

Colette is working on last two permits, then will send up the chain for approvals.

### **Schedule Update for Upcoming Activities**

Win will send a meeting notice for the 1:00 p.m. teleconference today.

The next Triad meeting is scheduled for Tuesday, August 2, 10:00 a.m. to noon Alaska time. Discussion will focus on: full data set for S1850 and UST1770; , GoreSorber results from the OAP; and SS016 source delineation samples. If needed, segregation of stockpiles and prioritizing of the excavations to stay within 20,000 cy will also be discussed.

Discussion of the Phase 2 wells for sites that we have extent on from last year will be scheduled for the August 2<sup>nd</sup> or 16<sup>th</sup> Triad call.

Attachment: Galena TO 294 Triad Team Contact List