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MINUTES FROM ORLANDO PARTNERING TEAM MEETING ON 23 JUNE 2009 (PUBLIC
DOCUMENT) NTC ORLANDO FL
6/23/2009
NAVFAC SOUTHERN

FINAL ORLANDO PARTNERING TEAM – MEETING MINUTES

Date: June 23-24, 2009
 Location: Orlando, FL
 Team Leader: Art Sanford
 Gatekeeper/Timekeeper: Greg Fraley
 Recorder: Teresa Grayson

OPT Members	Support Members	Guests
Greg Fraley, USEPA Reg IV	Chris Pike, Tetra Tech NUS	
Dave Grabka, FDEP	Allan Jenkins, Tetra Tech (phone)	Peter Barts – HSA Golden
Art Sanford, BRAC PMO	John Willis, BFA	Michael O’Quinn - attorney
Teresa Grayson, Tetra Tech		Francis Cheung - Ardaman
Sam Naik, CH2MHILL (by phone)		Brian Mulvaney – OU2 Property owner

Check-In

LTM Site Updates with BFA

John Willis, Senior Geologist, Field Operations Leader, provided results of long-term monitoring sampling effort for various sites.

OU 1

Last sampled in December 2008. Iron and manganese concentrations are trending together; this usually indicates that the concentrations are naturally occurring.

Radiation sources were speciated. This data will be included in the five-year review. Five-year review will also include trend graphs and statistical comparisons of upgradient and downgradient wells to support the case for discontinuation of monitoring at the site.

OU 3

SA8 – Last sampled June 2009; SA9 – Last sampled March 2009.

David is concerned that well 14R (downgradient of the PAB and near the surface water) has arsenic concentrations above the FDEP surface water criteria of 50 ug/L. Potential remedies to address that well were discussed.

David was also concerned about well OLD-09-14; it had a naphthalene concentration of 27.6 ug/L (above the surface water standard of 28 ug/L).

Action Item: BFA to include a trend graph of naphthalene concentrations for well OLD-09-14 in their report.

Action Item: BFA to properly abandon well OLD-08-29 – date TBD in coordination with other well abandonment activities.

SA 36, 36NW, and 38

Sampled in March 2009. Results were discussed. Much more detail on the site was covered in the presentation on the following day.

SA 2

Sampled in March 2009. Compliance wells in Azalea Park were still non-detect.

Potential options for site closure were discussed for this large, diffuse plume. The primary receptor at this time is irrigation wells in Azalea Park. Discussion of potential ways to eliminate this receptor were discussed.

The potential chemical weapons impact at SA 2 from decontamination training/testing was discussed. At this point, there will be no additional activity concerning this topic.

SA 17:

Sampled in March 2009. Wells OLD-17-15A, -16B, and 17C (speculated that these wells were covered by dredge spoils on the bank of the ditch) not located. Obstruction from OLD-17-38D has been removed.

This site has very high TCE concentrations in well 53C1 and 53C2 and high vinyl chloride concentrations in well 20C. This site must be reviewed as a whole to determine the effectiveness of the most recent treatment activities and the need for additional treatment at the site prior to entering LTM only phase.

Greg re-iterated the EPA's position on thorough technical support when MNA is a primary portion of a remedial action.

Action Item: Greg to forward an e-mail he prepared that discusses the EPA's position on certain data requirements when MNA is utilized as a remedial alternative.

Action Item: Tetra Tech to review SA 17 site data and make recommendations for a path forward regarding rebound in source area and need for additional injections.

Decision document can be completed as currently written, with the EOS injection as the remedy, independent of whether additional injections are required.

OU2:

Sampled in March 2009. Results were discussed. Much more detail on the site was covered in the presentation on the following day.

General Topics

Action Item: Tetra Tech to contact the Orlando Public Library as a follow-up to a visit earlier in the day and confirm receipt of the latest Administrative Record DVDs – Complete.

Action Item: Navy and Tetra Tech to develop a list of topics to discuss with the City of Orlando and then contact the City to set up a meeting.

Action Item: Navy to finalize the SA54 Memorandum of Agreement with the Army Reserve.

Agenda Discussion

Important discussions on Path Forward are required for many of the sites. Therefore, it was determined that these decisions could not be made in the time allotted for this meeting and two additional conference calls would be scheduled prior to the next meeting to discuss individual sites in detail. These calls were scheduled on Day 2 of the meeting.

Day 2: June 24, 2009

Visited Study Area 2 at Herndon Annex where the City of Orlando has completed construction of a police training facility. Observed 3 replacement monitoring wells installed by the City's consultant, Stillwater, Inc. Also, observed 1 damaged well OLD-02-46D that will need to be addressed with the City.

Check – in

OU2 Pilot Study Update

Sam presented an update to the bio-barrier EOS injection pilot study at OU2. The initial injections have been successful in reducing TCE concentrations in the wells inside and downgradient of the barrier. Daughter products are still present, in some cases.

Sam plans to complete the final two rounds of sampling associated with the pilot study and re-evaluate the planned bio-barrier. Because the original purpose of the barrier was to protect the surface water at the request of GOAA, and there is no contamination currently present in the water, it is possible that the recommendation will be to conduct no more injections.

Discussion was held regarding the criteria for the decision. Is surface water quality an acceptable criterion? Are additional compliance well(s) required between the barrier and the surface water?

Action Item: BFA should add wells 18B, 41B, 42B, 43B, 50B, 51B, and 53B to the long-term monitoring program.

SA 38 Investigation

Allan Jenkins presented the preliminary fate and transport modeling results for SA38. It appears that the plume is currently delineated and is moving approximately 200 feet per year towards Lake Susannah. The model is predicting a benzene concentration of 83ug/L at the shore of Lake Susannah. The FDEP SWCTL is 71.28 ug/L annual average. Discussion was held regarding

using MTBE as an indicator of leading plume edge and the unusual absence of other petroleum contaminants like xylenes and toluene.

Recommendations include completion of long-term monitoring optimization study, install well pairs near lake shore to validate fate and transport model, and continue monitoring recognizing that natural attenuation parameters are probably no longer needed. The remedial approach will be developed based on fate and transport modeling, sample results, and risk assessment.

OU 4 Long Term Monitoring

Sam presented the long term monitoring plan that was prepared by CH2MHill with input from Tetra Tech. Initially, Hill completed an optimization study using Mining Visualization System (MVS) software and MAROS (the initial effort did not include the Hawthorn wells or wells installed as part of the Near Shore investigation). Then, these results were combined with Tetra Tech's suggestions regarding the Hawthorn Zone, the Near Shore wells, the antimony "plume", and some anomalies with well labels and depths. The final list was presented and was forwarded to the regulators for approval.

Action Item: Greg and David to review/approve well list and parameters for the next two sampling events.

Decisions: (1) Run the natural attenuation parameters only during the Fall event; (2) Analyze for total antimony rather than both dissolved and total; (3) Conduct the one-time sampling of previously -unsampled CMT ports during the Fall event.

OU 2 Geotechnical Investigation by Property Owner

Guests of the owner of OU 2 and their consultants (HSA Golden and Ardaman) were present to discuss plans on the geotechnical field work to delineate the landfill at OU 2 for the purpose of assisting with location of structures for site re-development. It was generally agreed that the activities were approved by the FDEP and the Navy, however, several action items were required for final approval.

Action Item: David to prepare a letter with his comments on the work plan and contingent approval of the plan and send it to the Navy.

Action Item: Art to discuss the plan with Steve Beverly, especially regarding indemnification portions of the deed, and forward Navy approval of the plan with FDEP's letter to the site owner.

Action Item: Because Ardaman is a Tetra Tech company, Tetra Tech to pursue the COI mitigation plan that is in place for this program.

RAB Discussion

The RAB should be re-convened to review the upcoming decision documents, but it is premature to do that at this time. However, they should be updated as to the current status of the sites.

Action Item: Tetra Tech to distribute the IR update to the RAB.

OU4 Vadose Zone Soil Discussion

Decision: Sampling should be conducted to confirm/deny contamination above the industrial limits previously found in one sample at OU4.

Meeting Schedule

Conference Call – July 29 – 9:30 – 11:30 am

Conference Call – August 26 - 9:30 – 11:30 am

Meeting – the week of October 5 in Jacksonville

Critique/Checkout/Agenda

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Good meeting location	More decisions required; these will be completed during focused conference calls
Technical presentations were excellent	
Several decisions and consensus	
Set aggressive meeting schedule for next 4 months	

ACTION ITEM SUMMARY

New Action Items (June 2009)

1. **Teresa** to send revised exit strategy to team for review – **July 29, 2009**.
2. **Greg** to send example Five Year Review Report to Teresa – **July 17, 2009**.
3. **Art** to send updated Exit Strategy to Tier II – **August 14, 2009**.
4. **Teresa** to distribute the SA 17 draft decision document to the team. (Teresa to make sure SA 17 decision document includes sufficient support for MNA as a component of the selected remedy. Decision Document should also include benchmarks and expected reduction for future evaluation). – **August 2009**.
5. **Sam and Teresa** to revisit the SA 17 monitoring program and make recommendations – **August 2009**.
6. **Team** to identify compliance wells at each site and forward that information to BFA – **prior to September 2009 sampling event**.
7. **Team** to review BFA September 2008 report recommendations and determine whether or not to implement – **prior to September 2009 sampling event**.
8. **Art** to check with legal council on the risks associated with contacting the private home owners and offering to abandon their irrigation wells – **July 2009**.
9. **BFA** to attempt to locate well cluster 15A, 16B, and 17C on south side of canal – **prior to September 2009 sampling event**.
10. **BFA** to include wells OLD-17-55B – 55C and OLD-17-56B – 56C in long-term monitoring program and to include total organic carbon in select wells during LTM sampling.
11. **David** to draft a letter to Lisa Pearson regarding the City of Orlando imposing identical groundwater use restrictions on City property impacted by the SA 17 VOC plume (with support from Tetra Tech) – **open**.
12. **Tetra Tech** to submit OU 1 Five-Year review with recommendation to discontinue groundwater monitoring – **August 2009**.
13. **David** to prepare OU 1 Five-Year review presentation for FDEP management (with support from Tetra Tech) – **open**.
14. **BFA** to include a trend graph of naphthalene concentrations for well OLD-09-14 in their next OU 3 report.
15. **Greg** to forward an e-mail he prepared that discusses the EPA's position on certain data requirements when MNA is utilized as a remedial alternative.
16. **Tetra Tech** to review SA 17 site data and make recommendations for a path forward regarding rebound in source area and need for additional injections.
17. **Tetra Tech** to contact the Orlando Public Library as a follow-up to a visit earlier in the day and confirm receipt of the latest Administrative Record DVDs.
18. **Navy and Tetra Tech** to develop a list of topics to discuss with the City of Orlando and then contact the City to set up a meeting – **August 2009**.
19. **Navy** to finalize the SA54 Memorandum of Agreement with the Army Reserve.
20. **BFA** should add wells OLD-OU2-18B, 41B, 42B, 43B, 50B, 51B, and 53B to the OU 2 long-term monitoring program – **September 2009**.
21. **Greg and David** to review/approve well list and parameters for the next two sampling events at OU 4.

22. **David** to prepare a letter with his comments on the OU 2 work plan from HSA Golden with contingent approval of the plan and send it to the Navy.
23. **Art** to discuss the plan with Steve Beverly, especially regarding indemnification portions of the deed, and forward Navy approval of the plan with FDEP's letter to the site owner.
24. **Tetra Tech** to pursue the COI mitigation plan that is in place for this program regarding potential for Ardaman to support OU 2 work for HSA Golden.
25. **Hill** to collect surface soil sample to confirm/deny contamination above the industrial limits previously found in one surface soil sample at OU4.

On-going Items

1. **BFA** to notify Navy and Tetra Tech right away if any compliance wells show contaminant impact – **on-going**
2. **BFA** to properly abandon well OLD-08-29 – date TBD in coordination with other well abandonment activities– **on-going**
3. **Sam** to provide well construction and survey details to Teresa for new wells at OU 2.

Completed Action Items

1. Teresa to send revised exit strategy to team for review – **February 20, 2009**– **COMPLETED**
2. **Greg** to send revised SCAP to team – **April 2009**– **COMPLETED**
3. Art to send updated Exit Strategy to Tier II– **February 21, 2009**– **COMPLETED**
4. **Sam and Teresa** to review SA 17 historic water level data to determine groundwater flow direction in D zone – **COMPLETED**
5. **Art** to establish contact with GOAA to provide an update and establish a channel of communication – **OBE**.
6. **Art** to check internally within the Navy on addressing chemical weapons cleanups (related to SA 2) – **OBE**
7. **Sam and Teresa** to compile list of OU 2 wells indicating which wells are sampled at what frequency, for which parameters, and by which contractor, CH2M Hill or BFA and provide list to FDEP – **COMPLETED**
8. **Team** to review OU 4 property owner soil removal proposal and discuss during April 2009 conference call. – **OBE**

GROUND RULES

In accordance with discussions during Training in September 2001, here are the ground rules (Code of Conduct and Process) to review prior to the next meeting.

Code of Conduct

- Allow speakers to complete their thought.
- Be forthright (no hidden agendas).
- Be on time (10 cents per minute to be given to person who purchased refreshments).
- Invoke the 100 mile rule (avoid distractions; i.e., conducting non-OPT business).
- Be open and honest.
- Be professional.
- Bring Teammates up to speed.
- Use I statements.
- Be courteous to the speaker; no side conversations.
- Leave your ego and “business coats” at the door.
- Stay for the hard parts.
- Fix the problem, not the blame.

Process

- Team leader, Timekeeper and recorder rotate alphabetically progressing in this order: timekeeper, recorder, team leader, participant.
- Check-in: personal up-dates; read ground rules; review agenda, ground rules, action items and +/-.
- Proxy: Absent members have the discretion of designating a proxy to represent his/her views at the meeting. The OPT will not deliberately make a decision contrary to an absent member's known views or interests.
- Guests: All guests must be invited by the OPT. The sponsor is responsible to brief guest(s) on the OPT meeting process.
- The Team Leader to confirm that the sponsor has briefed guest(s) on the ground rules. If not, then provide guest(s) with overview of ground rules.
- The OPT and guest(s) shall recite the Ground Rules immediately after the Team Leader calls the meeting to order.
- Close-out: Draft agenda for next meeting; critique meeting; review action items.
- Distribute draft of minutes and Agenda within 7 working days of concluding the meeting. A master copy of the minutes will be maintained and rotated with the recorder.
- Comments or acknowledgment of receipt due back to scribe 7 days after receipt of draft.
- Final minutes and agenda distributed 7 working days before next meeting.
- An action item list with due dates will be maintained and updated monthly.