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**USACE PBOW TEAM
MEETING MINUTES
PLUM BROOK ORDNANCE WORKS
Thursday September 11, 2014
NASA Engineering Building**

Attendees

Rick Meadows, USACE Huntington
Lisa Humphreys, USACE Huntington
Jim Beaujon, USACE Nashville
Paul Jayko, OEPA NWDO

Steve Downey, CB&I
Mike Gunderson, CB&I
Lana Wood, OTIE

Team Meeting Agenda

1. Review Site Visit (USACE)
2. AA1 Potential Lead Issues (CB&I)
3. Feasibility Study Cost Estimates Revisions (USACE)
4. Update - Memorandum of Agreement / Memorandum of Understanding (NASA)
5. Update - Adding Land Use Control Language to Master Plan to Restrict Use of Ground Water (NASA)
6. Update – Status of State Concurrence on Ground Water Decision Document (OEPA)
7. Projects Being Closed Out (USACE)
8. Process for Requesting ARARs (USACE)
9. Status of Well Abandonment (CB&I)
10. Status of Waste Water Treatment Plant 2 BERA (CB&I)
11. Open Topics
12. Schedule Next RAB Meeting

REVIEW RAB SITE VISIT

Rick Meadows, USACE Huntington District opened the meeting with a brief review of the Site Visit logistics.

- Welcome to visitors and safety review
- Steve Downey, CB&I suggested a moment of silence in observance of Patriot's Day and to honor those who served during the events of September 11, 2001
- Group photo
- Lisa Humphreys, USACE Huntington District will review the completed remediation projects in TNT Areas A, B and C as well as the upcoming RA-C efforts for R2BG, AA2 and AA3.
- Mike Gunderson, CB&I will discuss the well abandonment efforts
- Mike Gunderson, CB&I reviewed the order of progression to each of the investigation areas:
 - o Intersection of Maintenance Rd. and Taylor Rd to discuss WWTP1, TNTA sewer line and Ash Pit 1
 - o AA1 – Discuss PCB results and outline lead sampling
 - o Sellite area, sulfur chunk, XRF overview
 - o AA3, WWTP3, Ash Pit 3
 - o AA2, WWTP2, Power House 2 Ash Pit

- Reservoir No. 2 Burning Grounds
- Pentolite Rd. Red Water Pond from sump area on Remediation Pad

AA1 POTENTIAL LEAD ISSUES

Mike Gunderson (CB&I) opened the discussion about AA1. Based on the human health evaluation of the site, the only contaminants of concern (COCs) are polychlorinated biphenyls (PCBs). But there is concern about the presence of lead in the soil. Most of the samples are below 400 ppm but a few of the samples are up to 1,177 ppm. Using the “20-times” rule, anything over 100 mg/kg may fail TCLP and cause a problem for disposal. CB&I is on-site this week and they are using an XRF unit to conduct *in situ* screening to determine the Pb distribution. Once completed, they will collect 10 TCLP samples from 9 locations, one sample will be biased towards a really high concentration of lead to see if there is a potential for leaching, and that data will be used for the Feasibility Study. CB&I’s findings are consistent with what they have seen at other sites (i.e., mostly areas of low concentrations with a few “hot” spots found). CB&I anticipates that most of the sample results will average out and be below background level. The results will feed into the cost estimate for the VE which is under development. The schedule will be discussed at the meeting next week.

AA2 and AA3 had a few lead hits below 400 ppm during remedial investigations (RI). Lisa Humphreys commented that remediation will continue as awarded in AA2 and if lead becomes an issue, it will be addressed with a contract modification as necessary. With AA2 and AA3 being conducted concurrently with R2BG, there may be an opportunity to perform stabilization, if needed, at that time.

ACTION ITEMS

- No Action Items were identified during this discussion

FEASIBILITY STUDY COST ESTIMATE REVISIONS

Steve Downey, CB&I, provided Ms. Humphreys with a list of priorities for projects requiring revisions to their FS estimates. Since CB&I is currently evaluating and delineating the lead contamination in Acid Area 1, Ms. Humphreys moved on the WWTP 1 and 3 and is almost finished with that information. Ms. Humphreys commented that she had not provided anything to Bill (Anderson, CB&I). Rick Meadows inquired if Mr. Anderson was working on the cost estimate, Ms. Humphreys stated that Mr. Anderson was working on the estimate but that he was waiting on cost information from her. Ms. Humphreys was delayed by AA2 award. Mr. Meadows clarified that the FS revised cost estimates were for AA1, PRRWP, WWTPs 1&3 (small area), and Garage Maintenance Sellite area.

Ms. Humphreys explained that her approach was to develop a primitive schedule showing the required RA-C tasks / activities and calculate labor, materials and equipment based on that schedule. This approach could add quite a bit of costs. Her approach would generate more of a detailed cost rather than the feasibility level (range of + 50% or - 30% uncertainty). Ms. Humphreys advised that she will be using the same labor, material and equipment rates used in the previously awarded cost estimates for R2BG and AA2.

Mr. Meadows summarized a strategy for the revised FS because most of the projects are in the PP phase. An FS addendum, which includes a cover letter and the revised estimates, will be

generated. The revised costs will be presented in the draft Proposed Plan when it is distributed for team and regulator review. The addendum will need to include a discussion of the revised duration of construction. The PP will need to include a reference to the FS addendum which included the revised cost estimate. The addendum will be reviewed by LRH and the final will be incorporated into the AR/PR and FRMD database.

Paul Jayko, Ohio EPA received the PRRWP PP for review. Mr. Meadows advised Mr. Jayko that he will be receiving an addendum that will include the revised costs and revised construction duration for PRRWP. PRRWP will not meet the original schedule of a public meeting in October 2014. The Public Meeting for AA1 PP will be delayed by the current lead (Pb) investigation. USACE and Ohio EPA will address the cost changes and reschedule public meetings at their schedule meeting next week.

ACTION ITEMS

- Revise Feasibility Study Estimates – Lisa Humphreys w/ CB&I

UPDATE MOA/MOU

Bob Lallier, NASA had a scheduling conflict and could not attend the meeting.

NASA has a new attorney so they may have to begin the MOA/MOU process over.

In the interim, Mr. Meadows would like the team to identify what USACE needs to include in the MOA/MOU and have the USACE attorney (Barb Lollar) begin working on the document and incorporating the conditions that USACE wants in the MOA/MOU.

Following the schedule update meeting next week, Mr. Meadows will head the discussion of what is needed in the MOA/MOU, draft a letter with the conditions listed to forward to Ms. Lollar from which she can begin to formulate a draft MOA/MOU and provide to NASA. Mr. Meadows invited input from Ohio EPA to incorporate into the agreement. Their input should be directed to Ms. Humphreys or Mr. Meadows.

ACTION ITEMS

- Update table from the preliminary assessment and provide it to USACE – Bob Lallier
- Conduct PBOW Team discussion to determine language for inclusion in the MOU/MOA, draft write-up and forward to Barb Lollar – Rick Meadows

UPDATE - LAND USE CONTROL LANGUAGE TO MASTER PLAN TO RESTRICT THE USE OF GROUND WATER

NASA master planner has retired and a replacement has not been identified. No change in the status.

ACTION ITEMS

- No Action Items were identified during this discussion

UPDATE - STATUS OF OHIO EPA CONCURRENCE ON GROUND WATER DECISION DOCUMENT, AA2 DD and AA3 DD

Paul Jayko, Ohio EPA stated that the DD was provided to Archie Lunsey, Ohio EPA, and Mr. Lunsey requested the document be forwarded to Columbus (Ohio EPA Central Office) for their review. Mr. Jayko anticipates that Ohio EPA Central Office will forward the document to their legal department before formal concurrence is obtained from Pete Whitehouse.

Jim Beaujon inquired about status of Acid Areas 2 and 3 DD which were submitted in August. Ohio EPA's concurrence has not been received to date. Mr. Jayko will inquire about the status of their concurrence letter.

Rick Meadows is expecting USACE Louisville District to be setting up a conference call with Ohio EPA team to discuss agenda/dates in the next few weeks for a FUDS meeting. USACE will probably inquire about the status of the groundwater decision document during the call.

ACTION ITEMS

- Submit concurrence letters for each DD from Ohio EPA – Paul Jayko

PROJECTS BEING CLOSED OUT

Lisa Humphreys stated that TNTA PCO is complete (except for receiving OEPA concurrence letter) and that the groundwater PCO is anticipated to be closed out in December.

ACTION ITEMS

- Submit concurrence letter from Ohio EPA – Paul Jayko

PROCESS FOR REQUESTING ARARs

Rick Meadows reminded the team that USACE is to request ARARs from Ohio EPA at the beginning of the RI phase for each project. A letter that documents Ohio EPA had input before the final FS stage is needed prior to the RI.

All projects at PBOW are in or beyond the FS stage but this requirement will apply to any future projects. Currently, the Ransom Road Disposal Area is the only potentially new project where this may be applicable.

ACTION ITEMS

- No Action Items were identified during this discussion

STATUS OF WELL ABANDONMENT

Mike Gunderson stated the work plan is almost complete and will be distributed to the team for review. CB&I expects to be in the field the week of October 14th. There are 53 wells to be abandoned starting with R2BG wells. USACE is not required to be onsite but may do an unofficial kick-off meeting that week.

ACTION ITEMS

- No Action Items were identified during this discussion

STATUS OF WASTE WATER TREATMENT PLANT 2 BERA

CB&I has located and flagged all of the historical boring locations from previous investigations conducted by CB&I/Shaw. However, the field crew does not have the boring locations from the investigations conducted by International Technology (IT) Corp. CB&I will coordinate with their CADD technician to obtain the coordinates from the IT data and subsequently identify and flag the locations in the field using GPS. By using GPS, they can get within 3 feet of the original sample, and survey the area with the XRF to determine where the lead is.

Rick Meadows advised that 4 team members will be in Nashville next week for the Line Item Schedule review. Mike Gunderson indicated they will be sampling Tuesday and Wednesday. There are several locations where they have to hand-auger to 7 feet to collect samples. If they continue to find lead at concentrations above 100 mg/kg, they will continue stepping out at 10-foot increments until the lead concentrations are at or below 100 mg/kg.

Jim Beaujon, USACE, inquired that if remediation is needed, what would be the approach? Currently, one of the points is between two concrete walls and another is surrounded by debris. Mike Gunderson responded that cleanup would most likely consist of clearing the rubble and debris on the surface with the excavator, set the rubble and debris aside during remediation and then put it back when remediation is completed.

ACTION ITEMS

- No Action Items were identified during this discussion

SCHEDULE NEXT RAB MEETING

The next Team/RAB Meetings are tentatively scheduled for Thursday, December 11, 2014. USACE Line Item Reviews are scheduled for the week of 15 September and then again week of 1st December 2014.

ACTION ITEMS

- No Action Items were identified during this discussion