

RESTORATION ADVISORY BOARD MINUTES

July 19, 2022

The Restoration Advisory Board (RAB) meeting was called to order by Hans Trousil at 9:01 a.m. on 19 July 2022. This meeting was held in person at West Burlington City Hall. Hans started off the meeting with Pledge of Allegiance, something that he always did previously as Mayor. Eight people joined the meeting via MS Teams.

Minutes Review

There were no corrections to the minutes from April 2022 and no public comments. Hans welcomed Kelly Crist as new RAB member and Wes March as new EPA lead.

Agenda Review

The July 2022 agenda was accepted as written.

Environmental Services Update

Jeff Morrison of Jacobs presented an update on the two projects his team is working on: Environmental Services at IAAAP, and the off-post bioremediation project at Operable Unit (OU) 3.

Jeff shared a slide with a list of the current OUs at IAAAP to remind everyone since those are discussed heavily during the presentations. He then updated the team on where the various Remedial Investigation (RI) reports stand for the Jacobs team:

- Submitted draft RI for OU-10 to EPA in early June.
- Working on response to comments (RTCs) to USACE on internal draft RI reports for OU-6 and OU-7. Draft RI reports will be sent to EPA later this summer.
- Awaiting comments from EPA on draft QAPP Addendum worksheets for additional fieldwork at OU-11 and OU-12 sites.

Jeff updated the team on the status of the Feasibility Study (FS) reports in progress:

- Submitted internal draft Feasibility Study (FS) report for OU-4 to Army in late June.
- FS Addendum for OU-9 was sent to EPA in late April and was approved. Final FS was submitted on 01 June 22. Next step will be Proposed Plan (PP) followed by Record of Decision (ROD) for OU-9.
- Plan is to conduct FS for OU-10, OU-6, and OU-7 in 2023.

Jeff reported on the OU-4 RCRA activities:

- Submitted draft 2021 Annual Groundwater Monitoring Report, Ash Disposal Cell within Trench 5, Inert Disposal Area, RCRA report to EPA in March. This RCRA report summarized results from November 2021 event. Currently planning 2022 monitoring event for this May, which is the month that this is typically conducted at IAAAP. Received comments in late June from EPA on draft 2021 Annual Groundwater Monitoring Report for Trench 5. Jeff shared

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some of results and data from that report.

- Round 47 results from November 2021 event were very similar to previous ones.
 - Overburden: VOCs, metals, and PAHs were detected above their default GWPS under the RCRA Permit in three wells (C-00-1, ET-3, and MW20-01).
 - Bedrock: No chemicals exceeded their default GWPS.
 - Several recommendations were proposed to EPA.
 - Conducted Round 48 in May 2022.

Jeff then updated the team on other activities in progress:

- Evaluated protectiveness of OU-1 remedial goals for five metals (antimony, cadmium, hexavalent chromium, thallium, and mercury) as part of the 2021 Five-Year Review.
- Held meeting with EPA risk assessors in June to discuss data review, proposed new RGs, and next steps.

Jeff informed that there wasn't much to update since the last meeting about the Site Inspection (SI) that is underway emerging contaminants called per- and polyfluoroalkyl substances (PFAS) at IAAAP:

- Five newly installed monitoring wells and 10 existing monitoring wells were sampled at the former Fire Station, Fire Training Pit (FTP), and the IDA in December 2020.
- Addressed technical comments on internal draft PFAS SI and submitted for Army Legal reviews in December. It has gone through AEC legal and Draft SI report is now being reviewed by EPA.
- Due to screening level exceedances, additional investigations are anticipated to occur in the future. New Risk Screening Levels (RSLs) were recently released by EPA and Army is looking closely at DoD guidance too.
- A fourth site (new Fire Station) was included in the revised Final PA report and will be addressed in an SI Addendum. Planning underway now and tentatively scheduled for fieldwork in Fall 2022.

OU-3 Optimized Remedial Action

Jeff provided an update on the OU-3 Optimized Remedial Action project, which is for the enhanced bioremediation at the off-post RDX plume.

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- Finalized Optimized Remedial Design for OU-3 in spring 2021 to implement the additional bioremediation injections within the 50 ug/L RDX “hot spot” area (approximately 20 new injection locations).
- Jacobs installed 20 new injection wells along north and south side of US Hwy 61. For safety reasons this required a Traffic Control plan and permit.
- Conducted one round of baseline sampling in May.

Jeff showed figure of the area with the RDX hotspot underneath US Hwy 61 and the proposed injection well locations for the remedial action.

- Injections began in June and will be completed by end of July. Performance monitoring will be conducted quarterly and semiannually for next 2 years.
- Using a substrate blend of LactOil ZL (emulsified oil) plus Wilclear Plus (sodium lactate plus nutrients) to enhance the biodegradation of the RDX in groundwater.
- Increased injection volume and closer well spacing to enhance substrate distribution. As of July 12, we are approximately 60% complete with injections.

Mark Hagerla asked what substrate was, and Jeff explained it was a carbon-based food source for the microorganisms and showed a photograph of what it looked like in a bucket.

Bruce Workman asked if it was edible? Jeff said that while safe to consume, the substrate wouldn't taste very good. Bruce asked if those values shown in the table were gallons, and Jeff replied that they were. He also asked how long will the injection go on for? Jeff responded it will be done by end of next week. Bruce asked if the injection system is pressurized, and Jeff replied that it is.

Jeff then presented an update on some other work being conducted on behalf of USACE Louisville District.

- Tony Finch of TAC Associates is working on Building Demolition Sampling for the IRP program. He gave a brief update over the phone.
 - Soil sampling program began in late May and is expected to be completed by the end of July.
 - Initial soil sampling at Lines requiring UXO Specialist escort has been completed.
 - Preliminary results continue to be transmitted as laboratory analysis is completed.
 - Preliminary results for soil samples collected at Buildings 5A and 5B appear to be below the Remediation Goals for the project.

Jeff presented an update on the O&M work. PARS, under a subcontract with EnSafe, continues to perform the O&M activities at OU-4 Inert Disposal Area, Line 1

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Impoundment, and Line 800 Lagoon. Since the last RAB, the following activities have been performed:

- Fixed Facility Water Treatment Plant - (i) sampling and analysis of the influent, after the first Carbon Unit, and discharge samples.
- Treatment System at Line 1 Impoundment - (i) backflushing the treatment system and changed the carbon unit; (ii) collection and analysis of sample of the discharge from the treatment system; and (iii) collection and analysis of BC-OFF samples.
- Other routine maintenance - (i) application of weed killer at toe drains and fence lines at the OU-4 Inert Disposal Area; (ii) grass mowing along the roads; and (iii) at the OU-4 Inert Disposal Area and Line 800 area.

There were no further questions.

FUSRAP Update

Mike Kessler provided an update on FUSRAP activities. He first presented the definition of FUSRAP: Formerly Utilized Sites Remedial Action Program to deal with former atomic energy commission radioactive waste. Assigned to DOE and then transferred to USACE.

Mike thinks Firing Sites (FS) FS-12 remedial action will be completed this year. FS-6 is a bit of a bind in the schedule. Two OUs assigned: OU1 primarily explosives contaminated soils in Line 1 and West Burn Pads (WBP), while OU8 (DU sites) is for predominantly looking for low level radiation.

FUSRAP has conducted a significant amount of sampling at IAAAP. Additional remediation is required at Line 1:

- Leidos collected additional samples at the Clarifiers 5-9 May. REV A1 of the Pre-Design Investigation Report (PDIR) is anticipated in September.
- Leidos is still drafting a Summary Report designed to revisit sites where previous attempts at remediation were halted due to “continuing sources”. REV A is now anticipated in August.
- REV A is anticipated in August (not July).

Firing Sites Area:

- Remedial Action is complete in the FS-1/2, 3/4/5, and 14 Areas. REV A of the PRAR/FSSE is anticipated in JUL.
- The GWS Survey work is over 80% complete in the FS-6 Area. About 10% of brush remains to be cleared.
- Final Status Survey (FSS) is complete in 93.2% of the 125 FS-12 Survey Units (SUs).

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Mike shared a series of restoration photos and with maps showing an overview of the remediation process at FS-12. The Iso-Pacific Soil Sorting System (S3) arrived at M-Yard on 4 APR-22. The system was moved to FS-12 on 12-APR, was calibrated on 21-APR, and started processing soil from the FS-6 road SUs on 10-MAY. After completing excavation work along the FS-6 Road, RCRC turned their attention to Area F and started excavating in SU-29 and soon unearthed the FS-10 structure. Mike had a new slide showing FS-6 Survey Status with yellow shading.

His team conducted an archaeological survey in May. He gave an advertisement for the EMX-GMAC group and shared an example handout of their cultural investigation capabilities. In the event extensive remediation is required at FS-6 to meet the ROD RG for soil, FUSRAP conducted an Archaeological Survey 17-20 MAY.

Mike then discussed the Q3 2022 Activities completed.

OU-1:

- Collected additional soil samples from the Bldg. 1-10/1-12 Clarifiers.

OU-8:

- Continued PDI of the FS-6 area.
- Mobilized the Iso-Pacific S3 to the site, completed calibration, and started processing soil.
- Completed remediating the FS-6 road within the FS-12 area; started excavating within Area F (SUs 29, 36, 42, 43, and 37).
- Completed the structural survey of the FS-10 structure.
- Completely restored the FS-6 road. Backfilled and graded all adjacent SUs.
- Finalized the 2021 RAC Field Summary Report.
- Continued drafting the OU-8 FS-12 2022 PRAR/FSSE and Test Fire Pit Data Summary Reports.
- Started PDT review of a Radiological Background Soil Sampling Plan.
- Completed drafting the SMP Amendment for 2022.

Mike provided a status update on progress toward 2022 goals:

- Process 14,000 CY of material at FS-12. 9,940 CYs through 6/30/22
- Stockpile 1,000 CY for shipping. 1089.1 CYs total; 816.6 CYs onsite.
- Ship 1,900 CY of material. 977 CYs to date.
- Complete restoration of all remaining FSA SUs.

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- Complete REV 0 of the 2022 OU-8 PRAR/FSSE at FS-12.
- Complete REV A; OU-8 PRAR/FSSE for all FS Areas 1-5 & 14.
- Complete Risk Assessments for Yards L, C, and G.
- Complete two OU-1 PDIRs for supporting remediation at Line 1.
- Provide one article to the IAAAP *Restoration News*.
- Award a new FUSRAP / HTRW Services Contract.

Mike then showed a slide with his Q4 2022 Activities Planned.

OU-1:

- Begin IAAAP Project Delivery Team (PDT) review of REV A1 of the “2nd Line 1 PDIR” and REV A of the “3rd Line 1 “Inaccessible & Continuing Sources” Summary Document.

OU-8:

- Complete brush clearing and Pre-Design Investigation work at FS-6 and will then begin drafting the PDIR.
- Continue planning for the investigation of the FS-12 Road embankment.
- Complete a review of the Radiological Background Soil Sampling Plan; collect the samples.
- Begin PDT review of several REV A documents:
 - OU-8 FS-12 2022 PRAR/FSSE; Test Fire Pit Data Summary Report
 - OU-8 FS 1-5 & 14 PRAR/FSSE
 - OU-8 Yard L Risk Assessment (RRA); Yard C RRA, and Yard G RRA
 - 2021 Environmental Monitoring Data & Analysis Report (EMDAR)
- Monitor surface water, sediment, and air.

There were no further questions.

Modernization Overview Update

Randy Doyle presented to the RAB for first time in about a year to provide a high-level overview of modernization program. The work is pending approval and the funds haven't been authorized by congress yet, the Commander decided not to share the slides with RAB today - pending contract approval. It will just be an oral briefing with full transparency about what is going on at IAAAP. He presented a slide titled “All Things Infrastructure and Modernization” that outlined the Area Development Execution Plan and summarized Infrastructure and Modernization activities underway or that are being planned for future execution.

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- Modernization Summary – the CERCLA lessons learned at Line 3A are being built into the design of the new munitions production facility. Energy efficiency and use (e.g., lighting) is part of the design.
- IAAAP Infrastructure Summary – Randy's team is taking a close look at the bridges, sewer lines, storage yards, new logistics campus, and new tank line.

Randy's team is being very aggressive on the rail system upgrades. Rail is very important to IAAAP to move product around the facility. When pulling out the old rail lines, Army is also able to sell the timber ties back to the community. Provides value back to the taxpayer.

Plant wide road upgrades. 90% design stage on CHIO project (plant road C, H, etc.) are being replaced. The Commander said it is vital to get infrastructure up to modern standards since trailers are bigger than they were in 1941. This reduces risk of accidents, avoids spills and contamination, etc.

Incorporating American Association of State Highway and Transportation Officials (AASHTO) standard specification is one of the lessons learned. Another is to use the design firm to do construction oversight.

Other projects include Sewer Rehab, new metrology lab, and replacement of Line 5 elevated water tower. Another lesson learned was that logo wasn't visible up in the air, so it won't be put on other water towers going forward since it doesn't add value. Central fire alarm and reporting system upgrades are underway. "Little Voice" and "Big Voice" systems being used in different part of the plant.

Solid waste processing center has been a great success. Randy shared some photos of demil of inert items, a horizontal bailer, and cold storage area that is almost done. Designed to add a rail line if they want to ship some material out. Loading dock is at the right height so it won't need major retrofit.

Army has a climate strategy and IAAAP has an "All Things Environment" slide showing their plan to implement it. Commander thinks this is the only Army facility that has this slide. IAAAP has an aggressive coal elimination strategy. Plan is to use natural gas fired boilers in future because steam lines are not efficient (37% only). Bruce asked if there was an emergency response team that responds. Randy said there is a mechanical team that does, but challenge is to find where the leaks are.

Other optimizations include building a state-of-the-art Sewage Treatment Plant with new batch reactors, eliminating NPDES outfalls, and decentralizing power at each line. Local construction firm Bi-State Contracting built the new solid waste facility.

Julie Solinski asked about Mathes Lake project. USACE is going to provide a report to fix the outfall structure. Dam is safe but outfall doesn't work.

Kellie has a question about Styrofoam recycling. Vendor is coming next week. Randy is going to inspect the electrician's work this afternoon. Styrofoam is used in picture frames, toilet seats, etc.

Hans had question about the roads. Curb and gutter or just flat pavement again? Randy

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replied that the design firm will tell Army what the AASHTO standard is. One lesson learned on previous project was that the Army used to make roads as wide as possible. But this had some unexpected consequences. Klinger is the local design firm looking into road. Curb and gutter would require a way to handle stormwater runoff.

Commander replied to the point about the new fire station location. Everything going forward is going to be built using lessons learned. The modernization projects won't sacrifice the environment to produce munitions. In fact, divesting old infrastructure to collect soil samples that weren't accessible before is improving the environment. As we outline the next 15 years, IAAAP will incorporate environmental protection in the plans.

There were no further questions.

Old Business – Action Items from Previous Last Meeting

There were actions from last meeting:

- Jen gave an update on PFAS sampling of water results. AMC sampled water coming into the plant early this year. Jen has asked for the data several times. But there has been a change in values. Wes said there are new advisory levels for some new PFAS compounds. Strictly advisory at this point but down to parts per quadrillion (ppq). Kellie asked if there is a date for finalization? Wes said no and there isn't even a rule for PFAS yet. It is not even proposed to be listed as a hazardous waste.
- Jen brought draft OU-4 O&M and LUC status report to the meeting today if anyone wanted to look at it. It is under EPA review currently to go final 01 Aug 22 and the data was included in Jacobs' presentation slides today.
- Mark had asked about water samples from the system. Mark didn't have any further questions.

Action Items for Today

- Julie asked to keep PFAS on the list for next time. Commander asked EPA to think about how recent supreme court ruling regarding manufacturing affects Army. Can we be strategic about congressional visits? Wes thinks IAAAP will be in a good place because its already including PFAS in its sampling plans. PFAS will be collaborative effort and require cooperation because the numbers are very low.
- N'Ali will be here next time for OU-5. Jacobs and FUSRAP will provide usual updates.

Next meeting is planned for 18 October 2022. As of now it is planned to be in-person at West Burlington City Hall, depending on the covid situation.

Meeting adjourned at 10:30 am.

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Original signed by:

Original signed by:

Original signed by:

-Vacant-
Secretary

Hans Trousil
Community Co-Chair

Jen Busard
Army Co-Chair

- Exhibits: 1 Attendees
 2 Agenda
 3 Environmental Services Update
 4 FUSRAP Update

Exhibit 1

GOVERNMENT MEMBERS

PRESENT (6)

Jen Busard
LTC Commander Crist
Wes March
Bill Gresham (via MS Teams)
Shelly Nellesen (via MS Teams)
Dan Cook (via Teams)

Darlene Abbott
Jonathan Harrington
Greg Rakers
Christa Poggemiller
13197537210
15156695494
17345824920

Total in attendance: 29

RAB MEMBERS PRESENT (7)

Hans Trousil
Julie Solinski
Mark Hagerla
Dean Vickstrom
Kellie Crist
Robert Haines
Bruce Workman

PUBLIC PRESENT (16)

Jeff Morrison
Mike Kessler
Maggie O'Hulligan
Aaron Steele
Dean Johnson
Tony Finch (via Teams)
Rebecca Roberts (via Teams)
Seth Reedy
Rachel Williams