

RESTORATION ADVISORY BOARD MINUTES

April 21, 2020

The Restoration Advisory Board (RAB) meeting was called to order by Jen Busard at 9:04 a.m. on 21 April 2020. Due to the pandemic, this meeting was held virtually over MS Teams.

Minutes Review

Vaughn had one correction to the minutes from January 2020. One correction on page 2 the last paragraph about “coated with freon” should state Line 9 not Line 7.

Now open for public comment. There were none.

Agenda Review

The April 2020 agenda was accepted as written. Jen reminded people to keep their devices on mute when not speaking.

There were no further questions.

Environmental Services Update

Jeff Morrison of CH2M HILL, now Jacobs, presented an update on the Environmental Services Contract. Under the CERCLA program the objective of the Remedial Investigation (RI) is to determine the nature and extent of contamination, to update the conceptual site model, and evaluate risk. 35 sites or areas were included in the approved Quality Assurance Project Plans (QAPPs) for Operable Unit (OU) 6. Jeff began the presentation by going over three action items from the January RAB meeting:

Tetryl at Line 5A/5B: There were 4 soil samples with detections of tetryl.

- Two samples, including the highest concentration location, were removed during OU1 remedial actions, next to Building 5B-28.
- The other two samples were below the removal goal/excavation criteria.

Building 1-13: There is no discussion of a mop hole in the previous RI reports or identified on available building drawings.

- Soil samples were collected around this building and explosives were not detected.
- Groundwater contamination was not identified down gradient of this building.

Soil Removal Actions: conducted at Line 6 and 9

- Freon was not identified as a contaminant of concern (COC) at Line 6. Only one small detection at Line 6.
- Soil removal at Line 6 for RDX, lead and mercury.
- Soil removal at Line 9 for HMX, RDX, and metals (Freon not a soil COC).

Recently Jacobs submitted Interim Human Health Risk Deliverable for Line 2 to EPA for their review. The team finalized the Background Concentration Groundwater Tech Memo with EPA and those levels will be used in all the forthcoming RI documents. Jacobs prepared and submitted the Background Surface Water/Sediment Concentration Tech Memo to EPA for their review.

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Fieldwork conducted in March/April 2020:

- Ground penetrating radar (GPR) survey at the Deactivation Furnace (DF)
- First seasonal seep sampling completed at Demolition Area (DA)/DF
- Bedrock well installation and sampling at various sites:
 - DA
 - DF
 - North Burn Pad Landfill (NBPLF)
- Well re-development at DA

Jeff then showed the Pending RI fieldwork slide and the remaining work includes:

- Alluvial well installation and sampling at various sites:
 - West Burn Pad
 - East Burn Pad
 - CCL (Contaminated Clothing Laundry)
 - InDA (Incendiary Disposal Area)
- Additional temporary well installation and groundwater sampling at Line 3A Pond
- Temporary well abandonment at Line 3A
- Second seasonal seep sampling at DA/DF (June/July 2020)

Jeff showed an updated map with stars showing completed sites and mentioned that some of this work was on hold pending funding. Map with stars show sites that have been completed, those that are partially completed, and yellow stars are for the sites we haven't started yet.

Jeff then discussed some other future work that is pending. A Site Inspection (SI) is underway for emerging contaminants called per-and polyfluoroalkyl substances (PFAS) at IAAAP:

- SI work plan submitted to Army for review in early March
- Based on conclusions and recommendations of the PFAS Preliminary Assessment (PA)
- Field work planned at the former Fire Department, Fire Training Pit, and Trench 6 at Inert Disposal Area (IDA) for later in 2020

Mark Hagerla asked about first seasonal sampling data? Is it available? Jeff answered that those results are still with the laboratory.

Mark asked if there was any record of PFAS being used at IAAAP. Jeff replied that the Preliminary Assessment (PA) consisted of interviews with the Fire Chiefs, Army Base Personnel, and others at IAAAP. That is how the three areas were selected for the SI. Julie Solinski asked if there was another fire station on the Plant. Jen answered that there were three other historical ones that were considered in the PA.

Vaughn Moore asked about the IDNR permit for M14 propellant and where was that being burned at? Steve Bellrichard answered that it was being burned at the Demolition

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Area (DA), and Randy Doyle elaborated that the material was classified Category D and too unstable for transport. Using open pans and was completed in about a week and a half.

Vaughn offered to show the team where the B-113 mop hole was located.

Bioreactor Treatability Study

Jeff then provided a Bioreactor Treatability Study update. Jacobs is collaborating with Engineering Research & Development Center (ERDC) to evaluate a RDX treatment system for the South Tributary to Brush Creek.

Construction continued during Jan/Feb 2020. Team had to demobilize before finishing due to a pending blizzard.

Jeff showed a series of photos showing the winter weir construction in February and what the Phase 1 (Drum) and Phase 2 (Tank) systems looked like as of March.

Path Forward:

- Expect to finish construction this week. Final backfill and site restoration are planned for late April 2020.
- Phase 1 Drum-scale testing is planned for early May 2020
- Phase 2 Tank-scale treatability test is planned for June 2020

There were no further questions.

Building Demolition Status

Randy Doyle provided an update on the Building Demolition program. He indicated that there weren't significant changes since his last update at the RAB meeting because they are cleaning up many of the same buildings. Randy briefed the group about a project that is underway to phase out of open burning and they are working closely with the IDNR and EPA to conduct a demonstration of closed burning technology. It involves lightly contaminated equipment that is removed from buildings in the demolition such as carts. Phase 2 of the demonstration is what Vaughn asked about earlier with regards to M14 propellant.

Julie asked who the contractor was that performed the closed burning, and Randy replied that it was PIKA. That was one of two contractors that had worked with the EPA and DoD on a previous study last year. The goal is to eliminate open burning at IAAAP, although Randy admitted that there will be some exceptions for things like large tanks.

All phases of the program are funded. Phases 1-5 are complete, Phases 6-8 are ongoing, and Phase 9 is being planned. Status: ~322 structures demolished; ~622k sq ft.

Randy provided a project update regards to recycling:

- Over 81,000 Ton of Concrete crushed for re-use

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- Over 2,500 Ton of metal recycled
- Realizing an 85% diversion rate of solid waste (concrete, recyclable items). Stockpiling some sand for future projects.

With regards to environmental stewardship:

- 2,600 Ton of Asbestos abated (in ramps out there).
- 40 Ton PCB Contaminated debris abated
- Proper disposal of other regulated material (lead, ballasts, Hazardous Material)

Randy shared a series of photos:

- Line 800 is 98% complete. Last structure was removed last week.
- Line 6 is complete.
- Line 5 is complete.
- Line 8 is complete. Found some old tank saddles near there.
- Line 1 is 95% complete.
- Line 3 is 90% complete. 301 is the only building left and it is expected to be done by September, it is going to have a close burn process. Going to flash it with a vendor's process that came in yesterday of lightly contaminated equipment.

Vaughn asked if any more buildings in Line 1 will eventually come down. Randy said maybe the south end of 1-12. There is a future project being planned to renovate the ramps at IAAAP. Vaughn also asked about Building 1-11 and the cell areas. Randy said that 1-11 has already been cleaned and has new lights and a new roof.

Randy commented that the photos of Line 1 don't do the remediation justice. The holes in the ground after Building 1-40 and 1-70 were enormous.

Julie asked if they removed Building 1-53 at the south end of Line 1. Randy answered that they did.

Mark asked if after any of the building removals, if we have seen less contaminated runoff. Randy replied that there is some early evidence that the remediation has already had a positive impact.

FUSRAP Update

Mike Kessler provided an update on FUSRAP activities. He started off by reminding the group what the acronym FUSRAP stands for: Formerly Utilized Sites Remedial Action Program to deal with former atomic energy commission radioactive waste. Assigned to the Department of Energy (DOE) and then transferred to US Army Corps of Engineers (USACE). Two OUs assigned: OU1 primarily explosives contaminated soils in Line 1 and West Burn Pads (WBP), while OU8 is for predominantly looking for low level radiation. Mike presented a slide that shows how FUSRAP interacts with CERCLA and showed where we are at in the process at IAAAP.

For OU-8, FUSRAP is in the final two years of Remedial Action. After the appropriate

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paperwork documenting that the project is completed, FUSRAP begins a 2-year monitoring phase. HQ-USACE intends to provide sufficient funding to complete OU-8.

West Burn Pad South (WBPS) of the road Remedial Action Completion Report (RACR) is now complete.

Additional remediation is required at Line 1:

- Buildings 1-70 & 1-05-1
- Additional sampling planned for the above plus Building 1-155-1
- Results of sampling at Building 1-40 on the next slides

Mike showed a series of diagrams showing where the Building 1-40 contaminated water troughs and gutters were located. He then showed a series of photos and maps showing the sampling phase, and then presented the analytical data from the sampling program. Of the 11 samples collected, nine were non-detect for explosives and the two that had detections were both below the action levels.

OU-8:

Q1 2020 activities completed:

- OU-1
 - WBPS RACR – Completed.
 - Analysis of soil samples from Building 1-40.
- OU-8
 - Verification of Northern SUs that were hand remediated in 2019
 - Internal FUSRAP and of REV A Line 1 Structures RACR.
 - 2020 Transportation and Disposal Campaign.
 - Tree clearing necessary to support 2020 and 2021 field work.
 - Line 1 Structures RACR –Internal FUSRAP EM-CX review of REV A.

Q2 2020 activities planned:

- OU-1
 - Finalized building-specific addendums for sampling at additional Line 1 buildings.
 - Continue development of SOW for Line 1 remediation contract modification.
- OU-8
 - Continue PDI / Verification work in hand-remediated SUs.
 - Mobilize RA contractor; begin excavation and processing of soils in SUs.
 - Finalize OU-8 Line 1 Structures RACR following Regulator review.

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Mike then presented a slide with 2020 goals:

- Ship 1,750 CY of >RG material
- Process 16,400 CY of material
- Stockpile 1,500 CY for future shipping
- 'Release' 30 Survey Units
- Complete OU-1 WBPS RACR
- Complete OU-8 Line 1 Structures RACR

Mike then showed a photo of the tree clearing operations. And he shared a recent article in Popular Mechanics that discussed the some research at University of Essex that has found some positive uses of DU as a catalyst in hydrogenation processes.

There were no further questions.

Old Business – Action Items from Previous Last Meeting

Jen reported out the 5-Year Review (5YR) process that is required by CERCLA when hazardous substances are left onsite about action levels. A contractor, Dawson, is currently in the planning phases of the next 5YR. Mark asked when it will be conducted. Danny O'Connor clarified that the purpose of a 5YR is to review any remedies that have not cleaned up the site to residential use (UU/UE) and ensure that they remain protective. There are four OUs at IAAAP that will be part of this 5YR: OU-1, OU-3, OU-4 and OU-5. Dawson will conduct interviews with public members of the RAB as part of that process to provide input. Danny asked Jen if Dawson could attend a future RAB meeting and Jen said she would check on that.

Mark reiterated that his ongoing concern was the fencing on the Plant and would like further evaluation of those areas. Danny indicated that those controls would have been presented during the Proposed Plan and public comment period before the remedy was implemented. He stressed that the 5YR process is not a "voting process," but rather a means to ensure that any new toxicity values are incorporated, any remedies that are not working get addressed, etc. He also cautioned Mark that it is not unusual for fencing to be used for Military Munitions Response Program (MMRP) sites. Jen is looking into Line 6 and the Central Test Area (CTA) to see if those areas can be further cleaned up to remove the fencing.

Action Items for Today

- 1) Bioreactor Update
- 2) Five-Year Review update by Dawson

Next meeting will be July 21 at 9 am. It may be virtual again.

Meeting adjourned at 11:34 am

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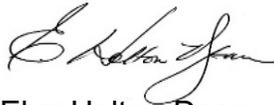
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Original signed by:



Sarah Brockway
Secretary

Original signed by:



Elyn Holton-Dean
Community Co-Chair

Original signed by:



Jen Busard
Army Co-Chair

- Exhibits: 1 Attendees
 2 Agenda
 3 Remedial Investigation Update
 4 Building Demolition Status

Exhibit 1

GOVERNMENT MEMBERS

PRESENT (4)

LTC Eric J. Schilling
Dan Cook
Jen Busard
Danny O'Connor

Darlene Abbott
Jessica Louthan
Amanda Smith
Milton Hicks
Ryan Drew
Renie Aitken

RAB MEMBERS PRESENT (6)

Vaughn Moore
Robert Haines
Hans Trousil
Julie Solinski
Bruce Workman
Mark Hagerla

Total in attendance: 29

PUBLIC PRESENT (19)

Steven Bellrichard
Jeff Morrison
Mike Kessler
Sarah Brockway
Aaron Steele
Rachel Williams
Randy Doyle
Scott Smith
Cathy Kropp
Brooke Thye
Stuart Schmitz
Heather Smith
Julie Barati