

RESTORATION ADVISORY BOARD MINUTES

October 17, 2017

The Restoration Advisory Board (RAB) meeting was called to order by Elyn Holton-Dean at 9:00 a.m. on October 17, 2017 at the West Burlington City Hall.

Minutes Review

The July 2017 meeting minutes were accepted as written. Mark Hagerla asked about offsite migration of contaminants in Long Creek. He thought the statement in last month's minutes (FUSRAP) was incorrect since he noted there has been documentation about this issue during rain storms. Unfortunately, Bruce Munholand of FUSRAP was late to this meeting. Steve Bellrichard clarified that while Brush Creek has an offsite migration issue; Long Creek does not, which is where FUSRAP is doing their work.

Agenda Review

The October agenda was accepted as written.

New Members

Jen Busard indicated that the new colonel for the IAAAP, Lt. Colonel Stephen Koehler, was unable to attend today, but the Deputy to the Commander, Mr. Gifford Haddock, is present.

Remedial Investigation Progress

Jeff Morrison of CH2M presented the Remedial Investigation Update. The Draft Final Quality Assurance Project Plan (QAPP) for the site-wide work and several sites was submitted to USEPA on 29 August 2017. The team is working with USEPA to get approval of the QAPP, which is the work plan needed to start the investigation. Additional comments from the USEPA have been received and are being addressed. Jeff reported that there was a productive meeting between the Army technical staff and the EPA technical staff last week to resolve the remaining issues and he hoped to finalize the work plan by the end of the month.

Hans Trousil asked what kind of comments EPA had on work plans. Jeff replied that some were about approach (location of wells, no. of wells), many had to do with risk assessment, and probably the biggest issue was about the type of aquifer is present and what the future land use will be. Different scenarios are looked at in risk assessment with regards to industrial vs residential land use.

A Mathes Lake specific QAPP has been developed to evaluate surface water and sediment in Mathes Lake. Comments from EPA on the draft document came back in early September and the team is in the process of responding to those comments.

Operations and maintenance (O&M) design plans have been developed for the three treatment systems at the IAAAP. Hunter Blair from PARS was unable to attend the meeting, so Jeff presented a couple of slides on his behalf, including a photograph of the skid mounted units being constructed.

Vaughn Moore asked if this equipment has been used at other sites. Jeff replied that this is traditional groundwater treatment and very standard. Dean Johnson of PARS added it is the same system that is currently out there. Steve clarified that the old system was at the end of its use, with some tanks getting rusty, and needed to be

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replaced.

Building Demolition Status

Randy Doyle, Environmental Coordinator at IAAAP, presented the building demolition update. The demolition is part of the Army program to abolish obsolete infrastructure. Some of the buildings were built in the 1940s. Supported by Picatinny Arsenal Layaway of Industrial Facilities Program (LIF). Bhate is sub-contracted to American Ordinance (AO) for the demolition activities however, the facility is using local resources where possible.

The work is being conducted in phases:

- Phase 1 - 84 structures totaling ~ 86k sq. ft. (complete)
- Phase 2 - 82 structures totaling ~ 134k sq. ft. (83% complete)
- Phase 3 - 43 structures totaling ~ 75k sq. ft. (working)
- Phase 4 – 50 structures totaling ~ 62k sq. ft. (working)
- Phase 5 - 32 structures totaling ~ 160k sq. ft.
- Planning Phase 6: Additional 100 structure totaling ~250k sq. ft.

The most recent update on the morning of the RAB meeting was 153 structures are demolished (approx. 193k sq. ft.). Randy said he will continue to give quarterly updates. In general, the project is going well and headquarters is pleased.

First five phases are essentially done and currently planning for Phase 6, which will consist of buildings in woods or buried ones. These will include foundations.

Encountered 3-foot thick ceiling and 2-foot thick walls at Line 6 and lots of concrete used by the contractor to install back in the day. Concrete recycling portion of this task is very productive. 95% clean rate of getting rebar out, but chicken wire is a problem.

Getting into metal buildings now instead of concrete so the metals recycling numbers are going to rise now. There has been an 80% diversion rate of waste, some going to landfill. 200 tons of asbestos abated. Very good asbestos contractor onboard, conducting proper disposal of regulated material and they are currently preparing an annual report for the Army.

- Randy Doyle showed Line 800 before and after photos. Only 5 buildings left to demo.
- 22 buildings are explosively contaminated, and only 2 had to be caustically decontaminated.
- Line 6 is turning into a green pasture. If you fly back from Dallas the plane route goes right over Line 6 and grass is visible.
- Line 5 is almost complete. Six buildings left to take down. Old growth trees coming out and leaving good growth trees.
- Line 8 – two structures remain.

Randy Doyle provided a complete demo list through Phase 6 requested by the RAB. Working with Zaynab Murray at AEC to coordinate sampling after. Moving into Line 1 next week and will be there through November.

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Vaughn Moore asked about where the rock crushing is being done? Randy replied the old parking lot west of Line 6, and added that 20k tons of concrete is a lot and requires a large space.

Vaughn asked if some of the equipment is still in building. Randy answered that some has been removed by a different contract, so property folks take care of that. Other things that require sampling like an old boiler or an old schnible unit needs to be decontaminated.

Vaughn Moore asked if anyone knew exactly when they are going to do soil sampling after buildings come down. Will there have to be any cleanup after? Intent is to have subcontractor take samples right away. Trying to get contract in place to turn over to the Restoration program.

Zaynab Murray reported she is currently working on the Scope of Work (SOW), to excavate and sample at same time. Explosive contaminated buildings were moved to Phase 4. Randy said they moved the contaminated buildings to another phase for that reason. Contractor is moving fast and we don't want to slow them down while Army goes through procurement process.

Vaughn Moore stated that the ammonium nitrate line, some buildings were buried and not removed. Old tank farm is buried.

Jen Busard introduced Linda Latta, Environmental Protection Specialist who worked for the Army at IAAAP three years ago before moving to Japan. She has returned to her previous position. Jen also reminded everyone to sign in using the sign in sheet.

Jen asked if there is anything else we would like to talk about while waiting for the FUSRAP manager to present.

Vaughn Moore stated it has been awhile since the RAB board had a tour. Jen asked when would you like to do that. Vaughn replied not during a snow storm, and that it would be up to the commander.

Vaughn also asked on behalf of a friend if the Mormon cemetery is still in place, or was it moved. Vaughn indicated that one of the Bruce Funeral Home guys told them about this. Bob Haines said he didn't recall the moving of any grave sites.

Jen does remember that Swedesburg cemetery may have been moved. Steve Bellrichard thinks it may have been an individual that was moved. Small amount, maybe 8-9 graves or so including a little girl by K road. Spring Creek cemetery and Shiloh cemetery are still active. The Mormon cemetery is not active. On barricade K road south of the renovation. He wasn't aware of that.

Steve indicated that family members routinely visit on Memorial Day or birthdays and anniversaries and they are allowed on to the active cemeteries. If a person had relations in the Mormon cemetery, he or she would be allowed on. Steve said he has been at IAAAP since 2004, and Bob indicated he has been there since 1982.

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Hans Trousil said that a small cemetery was outside the fence on 406. Most of those bodies were moved, but 2-3 were left because death was due to typhoid, which was discovered when a new water main was installed. Not sure where the bodies went when moved.

Steve noted we have an individual responsible for the cultural and historical issues (Joe Hafner) and he may know. Jen said she would follow-up on this subject and report at the next RAB meeting.

Mark Hagerla asked if somebody could go over the process of how restoration activities are overseen by Army. Jen is responsible for the contractors to make sure they are doing what they are contracted to do.

Mark Hagerla asked: do you rely on contractors to do the work they are supposed to do? Aaron Steele answered that the Army Corps of Engineers (ACE) is providing oversight of the contractors and reports to Jen Busard at IAAAP.

Steve Bellrichard clarified that Jen is the oversight, and that Laura Percifield at ACE, Omaha District is Aaron's counterpart for oversight of all the MMRP sites. Not always practical to fly someone in. Also, that the reporting requirements to EPA and IDNR are another check that the work plans are being followed.

There are no more questions/comments.

FUSRAP Update

Bruce Munholand was delayed in attending the meeting, so Aaron Steele provided the update on FUSRAP work on behalf of the St. Louis Corps district. Since the last RAB, we have progressed on Firing Site 12 (FS-12), and the remediation continues with 930 yd to be shipped offsite (9 full rail cars).

Once soil remediation is complete, excavation will be backfilled to bring it back up to grade. Aaron showed some site photos and a site map. He stated that they are working in area G currently and described some upcoming efforts that include moving stockpiled material from FS-12 to M Yard for November shipment.

They have observed decreasing quantities of Depleted Uranium (DU) as they move away from the center. Offsite shipping becomes economically efficient with a minimum of 10 rail cars.

- Next steps will be to complete remediation of Area E, and follow on RA (remedial action) contract this spring.
- Continue environmental monitoring of surface water, sediment and air including Long Creek that Mark asked about which runs right through FS-12.
- 2018 will be the first five-year review for OU-8.
- Sampling protocol for building 1-70.
- Continue research for OU-1 soil Response Action Completion Report (RACR) and OU-8 FUSRAP.

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Mark Hagerla asked about Brush Creek sampling. Aaron Steele responded that there is monthly sampling at three offsite locations, and reported in an annual report to EPA.

Mark also asked if this was conducted during heavy downpours. Aaron replied that the sampling events are scheduled in advance, but that they do track precipitation events in conjunction and analysis is performed to correlate. Also, a very robust sampling of all creeks including Brush Creek, is planned as part of the upcoming Remedial Investigation (RI).

Long Creek is sampled by FUSRAP through the Firing sites. Figerald Garcia previously provided the last annual report. It contained all the sampling data. Aaron recalls the data was non-detect.

Mark Hagerla stated that at Brush Creek the main problem is RDX and asked if the team knows where it comes from. Aaron assured him they would have a robust sampling plan for continuous monitoring. Long Creek is a DU issue. Different sampling protocol for that contaminant.

Mark Hagerla asked if there had been any recent findings (last couple of years) to find where the contamination is coming from? Aaron Steele answered affirmative. Army has a research center called Engineer Research and Development Center (ERDC) and they design systems for remediation. At Line 1, they have focused in on RDX contamination and been given approval to do a Treatability Study on runoff from Line 1 to Brush Creek. Researchers will use some innovative technology and see how it works on RDX, and the Army gets to gather some data and achieve some remediation effort on one of the worst contamination spots.

Bruce Workman asked does RDX change which technology we would use. Does it tell the age of the RDX? Could they tell if it is new RDX or old RDX? Aaron Steele answered that they can run total explosives analysis, and Matt Vest stated you can do that with some contaminants but not RDX. Sometimes there are markings added to chemicals that help tell the manufacturing date.

Steve stated that Sandeep Mehta, USEPA wanted to see pink water (explosive contaminated water) - there is a schnible unit, an air purification filter that could be the current source of release on Line 1. Steve added that he hopes that during previous site visits that he has provided the degree of complexity the team faces at Line 1 with underground buildings, atomic energy commission utilizing it, etc. He is convinced it is the source of RDX in Brush Creek. Once we all agree where the source is, it should be relatively easy to stop the RDX discharges to Brush Creek.

Heather Smith is the ERDC expert that Aaron was referring to. AEC has asked for their help to stop the RDX from getting into the creek. With Randy's Building demo program, we'll have access to the soils and treat the source area to Brush Creek.

Mark Hagerla said that he noted two or three Saturdays ago there was big black cloud and he saw the fire trucks going the other way. Randy Doyle said he saw the same thing, but it wasn't coming from the IAAAP. It was actually from the fertilizer plant. He thinks they were starting up their boiler for the first time this season.

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Hans Trousil asked about one of the FUSRAP photos, where an excavation was performed around the tree. What happened to the tree in FS-12 photo? Bruce Munholand reported that tree is coming out, and he apologized for being late to the meeting.

No other questions.

Old Topics from Previous Meeting

None discussed.

Action Items for Today

Randy Doyle said he would provide photos of the Old Fly Ash Waste Pile. Jen was going to research the cemetery issue. Laura Percifield would report out on the Historical Small Arms Range plan.

Public Comment

Elyn Holton-Dean (Chair) opened up the meeting for public comments.

Vaughn Moore asked if there were any updates on the pistol range cleanup. Jen Busard replied that there was. Historical Small Arms Range draft document has been prepared called the Proposed Plan. IAAAP just received the draft. There will be a public comment period and a public meeting that will be scheduled soon, likely around the next RAB meeting.

Vaughn Moore asked what for the status of the Old Fly Ash Waste Pile. Randy replied that the bank has been stabilized, slope is not a big hanging cliff any longer.

Vaughn asked if there is a retaining wall yet. Randy will let Jen know status of the wall.

Vaughn also asked what for the status of the offsite wells. Zaynab Murray, AEC answered that Laura Percifield found new landowners and now has new leases. Two new wells have been identified to be installed and sampled, but have not gained permission to abandon two others wells yet.

Vaughn commented about the tearing down the back side of Line 1 and asked if this includes the underground equipment rooms. Randy replied affirmative. Vaughn cautioned him that there will likely be 10 to 15 ft. of cement under two big pours. Randy said it will be like Line 800.

Vaughn stated the on the back line is where they washed the filters out.

Randy stated he was pleased with contractor (Bhate) and subcontractors, that they were very thorough and safety is priority and good stewards of the environment. Very aware of the processes. Bring in another contractor to look at the data.

Next Meeting/Agenda

The next meeting is scheduled for January 9, 2018, 9:00 a.m. at the West Burlington City Hall.

Topics for the next agenda: See list of action items above.

Iowa Army Ammunition Plant
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The meeting was adjourned at 9:58 a.m.

Original signed by:



Kaitlin Nau
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 (3)

Jennifer Busard
Gifford Haddock
Dan Cook

RAB MEMBERS PRESENT (8)

Vaughn Moore
Robert Haines
Doug Coyle
Elyn Holton-Dean
Dean Vickstrom
Hans Trousil
Mark Hagerla
Bruce Workman

PUBLIC PRESENT (15)

Kaitlin Nau
Dean Johnson
Jeff Morison
Billie Jo Hatfield
Zaynab Murray
Matt Vest
Steven Bellrichard
Linda Latta
Andrew Spyrow
Dellbert Beenwell
Randy Doyle
Bruce Munholand
Brooke Thye
Aaron Steele
Juan Afable

Total in attendance: 26