

RESTORATION ADVISORY BOARD MINUTES

April 18, 2017

The Restoration Advisory Board (RAB) meeting was called to order by Elyn Holton-Dean at 9:00 a.m. on April 18, 2017 at the Burlington Public Library.

Minutes Review

The January 2017 meeting minutes were accepted as written.

Agenda Review

The April agenda was accepted as written.

Public Comment

No public comments.

Environmental Services Contract

Michael DeRosa discussed the Community Involvement Plan and the number of entities interviewed. The Community Involvement Plan was submitted to USEPA on 29 March 17. Mark Hagerla asked if there would be a RAB presentation. Michael DeRosa stated once USEPA comments are addressed, CH2M will present the community involvement plan contents to the RAB.

Michael DeRosa stated the technical project planning meetings have been completed. The draft quality assurance project plan has been completed and sent to USEPA this week. Field investigation activities will begin November/December this year.

Michael DeRosa discussed the Mathes Lake quality assurance project plan. The internal draft will be submitted to USEPA on 29 June 17. Dean Vickstrom asked how deep into the sediment CH2M would go. Michael DeRosa indicated that would be an item to be discussed with USEPA. Vaughn Moore mentioned that silver was found in the Lake. Michael DeRosa indicated that data going back to the 1980s is being reviewed. Mark Hagerla asked why CH2M was not going back to the 1970s. Michael DeRosa stated the environmental baseline surveys began in the 1980s.

Vaughn Moore indicated that the plant knew the lake water was contaminated in 1971 but did not hook up to Burlington water until 1976. Vaughn Moore indicated the contaminants were not mentioned by name. Mark Hagerla indicated there was a letter by Roy Holmberg. Jen Busard believes it is in the last final document by H&S. Vaughn Moore says the water was pumped from the lake into the settling pond and the settling pond needs to be checked. Mark Hagerla indicated this is an issue as most of this stuff happened before 1980. Steve Bellrichard indicated the Preliminary Assessment for Mathes Lake was prepared and gone through the CERCLA process and is on the website. CH2M will design the sampling plan based on this assessment. The conclusion of that assessment is to move forward with sampling.

Connie Tsentas indicated the draft design plans were submitted for USEPA review. USEPA asked for introductory information be submitted. Connie indicated that once the Army comments are received, the design plans will be submitted to USEPA for review.

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Steve Bellrichard noted that the plans are for water treatment at the IDA, Line 1, and a mobile unit at Line 800. The IDA unit treats water from Trenches 6 and 7. The older systems could treat 1000's of gallons a day but there is now a smaller water volume so the system can be downsized to be more appropriate.

Hans Trousil asked what happens with the treated water. Steve Bellrichard indicated it is discharged right there. A granulated activated carbon unit reduces the RDX to 2 parts per billion. The Line 1 unit discharges to Brush Creek, the IDA unit discharges to the back of the building as it is a small volume so there are no erosion issues. At Line 800, if treated, it would be treated and discharged to the headwaters of one of the tributaries.

Mark Hagerla asked about heavy rains into Brush Creek and determining the sources. Michael DeRosa indicated that the discharge going to Brush Creek is part of the work CH2M has been tasked to perform. That information will be sent to USEPA in the next 30-60 days.

FUSRAP Status Update

Bruce Munholland briefed the RAB on FUSRAP activities. Tree removal was completed in Areas F, G, and H for remediation at Firing Site 12. The remedial action contractor mobilized last week. Excavation will begin at Area F in the next 2 weeks. Status surveys in 12 acres of the northwest portion were completed. Southwest walkover surveys were partially completed. Survey units 94, 115, 109, and 112 are included in the remedial action contract. Shipping should occur mid-summer. Firing Site 12 contains 540 yards currently. Shipping out begins at 1,000 yards from M Yard. There is continuing monitoring of surface water, sediment, and air.

Bruce Workman asked about the walkover survey depth sensitivity. Matthew Bange indicated it was from surface to 3 inches in depth. Bruce Workman asked if the survey would pick up anything else. Matthew Bange indicated anything with a gamma signature would be picked up. Bruce Workman asked if anything else was found. Bruce Munholland indicated only depleted uranium was found.

Hans Trousil asked what is done with the wood. LTC Wolfe indicated the wood is not shipped offsite. The natural resource person calls it wildlife habitat. Steve Bellrichard indicated that surveying of trees is performed. The thought is that depleted uranium shrapnel is in some trees. Not sure what the plan is but no trees have been sent offsite. Bruce Munholland indicated he would follow-up on the tree situation.

Hans Trousil asked if the railcars were leakproof. Bruce Munholland indicated the railcars are totally sealed and hard covered. Also, the area around the railcars is tarped so the loadout area is not contaminated. Steve Bellrichard indicated the railcar lid is taken off and the railcar loads. Bruce Munholland indicated the lids are bolted down.

Vaughn Moore indicated that the first Hydroshots were at Firing Site 6 and were

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bigger units but not much was found there. Not sure why there is not more out there down to the bridge. Steve Bellrichard indicated they found 2 larger chunks at Firing Site 6 but he was not sure how the chunks got there. Active areas at firing sites were walked over – maybe things were picked up but FUSRAP did not find anything.

Thurman Huffman indicated the first shots were Mark 8 with 200 pounds of explosives as shape charges. Vaughn Moore stated he is trying to figure out why nothing is down there. Bruce Munholland indicated they did not find anything.

Doug Coyle wanted to see the 112/115 areas. Bruce Munholland shows the 94/112/115 areas.

Vaughn Moore asked if the material came out of the tunnel at Firing Site 12. Steve Bellrichard indicated this was Firing Site 8 or 9 that had transformers that were non-PCB containing but were not removed. The structure is on the demolition list. Steve Bellrichard indicated there were only radiological contaminants at Firing Site 12 and nothing radiological was found in the bunkers. Vaughn Moore asked if Firing Site 12 is being taken completely down. Steve Bellrichard indicated yes, as soon as FUSRAP says it is clean.

Mark Hagerla asked when loading, does the Army hire local construction and are the contractors advised. Bruce Mulholland indicated the contractors are certified to handle this material.

Bio-Reactor Project/Building Demolition Status

Steve Bellrichard indicated the building demo information is included in the newsletter. Over 40 buildings are down. Still do not have 1-70 explosives plans ready but are under contract. There is known RDX under building 1-70. Need to get the paperwork ready.

Bioreactor work that Heather Smith was installing at 2 source locations to Brush Creek lost funding. CH2M has some funding to look at the sources, IAAAP will continue to look for funding.

Munitions Production

Lt. Colonel Wolfe showed an IAAAP promotional video on munitions production. LTC Wolfe showed an organizational chart and explained that IAAAP falls under Army Materiel Command. Joint Munitions Command is under Materiel Command and IAAAP is one of 13 facilities. IAAAP is doing a lot of propelling rounds like mortar rounds, tank rounds, demolition charges, and mine clearing charges. Currently, IAAAP is not doing scatterable mines production. Also, doing 40 mm grenade, missile warhead development and shape charges.

Since 1941, TNT-residue produced explosive crystals on walls, resulting in explosions. Workers would wash down walls. Millions of gallons of water needed to be contained/controlled. Still have explosive contaminants in soil at Line 1 and are in

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cleanup phase now. Currently, there are 5 active lines. Inactive lines (e.g. Line 5, Line 6) are in teardown phase. There is one active range and one active test fire site. LTC describe explosives categories.

IAAAP Permit Status

Steve Bellrichard indicated LTC Wolfe showed Line 1 and 3 explosions and there are plumes at Line 1 and Line 3 and indicated plumes exist at Line 2 and 3A. The operations are very water intensive. RDX would get washed outside prior to environmental regulations. Plumes exist where melt/pour operations occurred.

Drinking water permits are through the Clean Water Act. Iowa issues these permits. There are very few issues with drinking water. Drinking water is monitored and sampled on a daily, weekly, or monthly basis.

Wastewater discharges are based on the NPDES permit where discharges are sampled and fees are paid. In 2005, IAAAP reapplied and Iowa had to develop regulations. It took almost ten years because Iowa had to reclassify the streams. Although the permit expired, IAAAP is still operating properly. A new permit was submitted 3 January 2017. IAAAP seeking new discharge limits for some explosives.

Vaughn Moore mentioned the coal plant which has an outfall. Steve Bellrichard indicated production line discharges were sent to the 70 series buildings, sampled and discharged. Outfall 9 contains the coal plant discharge. All water is directed to the pond/leachate collection system is sent to the treatment system where lime is added, the solids drop out, and are discharged into the tributary to Mathes Lake.

Iowa is delegated to administer the air quality program. IAAAP is a major air quality source due to the coal-fired plant. Title V permit is for the heating plant which makes steam. Over 200 emission holes are monitored or calculated. This is an expensive permit.

Dan Cook noted the Title V permit is renewed every 5 years. Iowa charges a review time for the permit. LTC Wolfe noted \$200,000 is spent every 5 years. Steve Bellrichard indicated that IAAAP pays based on what comes out of the stack and it depends on contaminant but is about \$100,000 per year. Dan Cook stated it amounts to about \$65 per ton at 1,000-ton limit. Bruce Workman stated the permit to discharge is in addition to the permit fee. Dan Cook indicated people do not know the fee until Iowa determines how much it will cost to run the program. Steve Bellrichard indicated it is hard to budget for trying to get the permittee to pay for the program.

Vaughn Moore asked what is done with the fly ash from Old Smoky. Steve Bellrichard indicated it goes into a permitted fly ash landfill. Before pollution control equipment, metals levels in the fly ash were acceptable for beneficial reuse. Now cannot use for beneficial reuse. The landfill is nearing capacity.

Iowa has chosen to not regulate hazardous waste, only solid waste. Hazardous waste

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regulators are USEPA. Hazardous waste permit expired in 1999. The most recent permit reapplication was submitted in 2015. It allows for long term storage at 2 facilities until it makes sense to load. AO contractor picks up material every 90 days or less.

Demolition area is regulated as Subpart X. In the 1980s, Iowa disallowed open burning/open detonation. Stopped in 1980s, except for emergencies. Propellant must be destroyed immediately. There is one open detonation every four years. The hazardous waste permit has been drafted.

Bruce Workman asked if the if the wastewater monitoring was automatic or random. Steve Bellrichard indicated that AO is responsible for grab samples, although the pH is continually monitored. Samples are taken at random. The materials are held until the sampling results come back. The holding tank is aluminum or stainless and above ground to tell if the tank is leaking. At line 3A, there is extensive recycling.

Hans Trousil asked if the heating plant was changing from coal-fired to gas-fired. Steve Bellrichard indicated it is underway. The old method was to use wood first, then convert to coal. Now using gas to bring up to temperature before using coal.

Mark Hagerla asked if new hazards were being addressed. LTC Wolfe indicated they are working with the industrial staff to bring wastewater down to zero detect. Steve Bellrichard stated that they are being overcautious with the workers. There is an emission issue with IMX. Trying to limit explosiveness. IMX appears to be less toxic than TNT. Will know when the effluent limit permit comes out.

New Topics/Old Business

RAB Meeting Time Change

Steve Bellrichard communicated that the RAB meetings were during the day because the government could not work after hours and requested proposals for new dates/times for the RAB meeting.

Vaughn Moore indicated that in the past the RAB meeting would interfere with work. Steve Bellrichard asked if anyone expressed that the time did not work for them. Mark Hagerla indicated that changing the time could allow the HAWKEYE reporter to be present and get information to the public.

Hans Trousil indicated he liked the current time. Elyn Holton Dean and Bruce Workman indicated the current hours worked for them. Steve Bellrichard indicated Monday was not a good time.

Two votes conducted – eight RAB members voted to keep the same time. Eight RAB members voted to keep the same day. Steve Bellrichard indicated the RAB meeting will continue to be Tuesdays at 9 am and stated the topic was always open for discussion.

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Website Link Page: ECHO and RDX added

Steve Bellrichard stated that the ECHO link has been added to the website. Steve indicated that although it allows one to see who is out of compliance, there are errors. For example, IAAAP is out of compliance because there is a new form for NPDES compliance. ECHO is an assessment tool for the community.

Current Public Awareness Activities

Before every meeting there is a paid advertisement that is run three times. There is also a public service announcement for three radio stations two weeks prior to the meeting. Mark Hagerla asked if a Facebook book would be helpful. Jen Busard indicated there is less security and Facebook is banned at work.

Hans Trousil requested to add the New London Journal, Mediapolis News, and Des Moines County News newspapers. These are all weekly newspapers that would need two weeks' prior notice.

Mark Hagerla asked what radio stations were sent the announcement. Jen Busard indicated KGRS, KUBR, and KILJ. Mark Hagerla requested KCPS in West Burlington be added.

Hans Trousil indicated the Fort Madison Democrat. Jen Busard indicated she sent it to them. Mark Hagerla asked about the Mediacom community channel. Hans Trousil indicated it could go on West Burlington's community channel. Jen Busard indicated she would mail it.

Other

Steve Bellrichard communicated the three old action items (munitions production, public awareness activities, and items to add to website) were addressed.

LTC Wolfe's command has ended and the change of command will occur on 16 May 2017. LTC Steve Kohler will take command. Jen Busard accepted environmental protection position and will start 1 May 2017.

Steve Bellrichard asked if anyone had training suggestions to let him or Jen Busard know.

Next Meeting/Agenda

The next meeting is scheduled for 18 July 2017, 9:00 a.m. at the West Burlington City Hall, Counsel Chambers Room, 122 Broadway Street, West Burlington. Topics for the next agenda:

- Photographs for FUSRAP update
- More detail on demolition e.g. the ramps at Line 6.

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ACTION ITEMS	Person responsible	Deadline
1. FUSRAP tree disposition/photos	Bruce Munholland, FUSRAP	July RAB Meeting
2. Public notices, additional paper, and West Burlington website for public notice	Jen Busard	July RAB Meeting

The meeting was adjourned at 10:57 am.

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 FUSRAP Project Update

Iowa Army Ammunition Plant
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Exhibit 1

GOVERNMENT MEMBERS PRESENT (4)

LTC Aaron Wolfe
Sandeep Mehta
Dan Cook
Steven Bellrichard

RAB MEMBERS PRESENT (9)

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

PUBLIC PRESENT (11)

Jen Busard
Dean Johnson
Zaynab Murray
Michael DeRosa
Matt Vest
Matthew Bange
Bruce Munholland
Connie Tsentas
Juan Afable
Teresa Trosen
Bob Louden

Total in attendance: 24