

**IOWA ARMY AMMUNITION PLANT
RESTORATION ADVISORY BOARD MINUTES
October 20, 2015**

The Restoration Advisory Board (RAB) meeting was called to order by Elyn Holton-Dean at 9:02 a.m. on October 20, 2015 at the Burlington Public Library.

Minutes Review

The July 2015 meeting minutes were accepted as written.

Agenda Review

The October agenda was accepted as written.

Public Comment

Zaynab Murray announced that she has accepted a new position with the Army Environmental Command in San Antonio, TX beginning November 2015. Jesse Kahler will be the temp Army Co-Chair for the next RAB meeting in January 2016.

IAAAP FUSRAP Update

Figerld Garcia, FUSRAP program manager briefed the RAB from his slide presentation shown in exhibit 3 (IAAAP FUSRAP Update).

Sandeep Metha asked how much soil has been sorted this year. Figerld Garcia replied that they just began last week. All soil is to be shipped out by September 2016. Sandeep Metha asked why sorting and shipping out isn't done simultaneously. Vick James, USACE explained that they have a shipping campaign. Soil is stock piled then shipped out once or twice a year, which is cost effective. Vaughn Moore said he thought that once the soil was sorted that it is put in containers and shipped out immediately. LTC Wolfe explained that when there are multiple shipments of contaminated soil to ship, it raises a risk of a spill or accident. The risk of keeping it onsite until one shipment is ready is a lower risk. Vaughn Moore said the soil could still be stored in a water-proof container or stock car until it is ready to ship. Figerld Garcia said the soil is kept covered. Zaynab Murray said they will be touring that site if you have any more questions. Sandeep Mehta suggested FUSRAP have a schedule available of the soil process and disposal.

Paula Graham said there has been soil disposal from the firing site, have you sorted any soil at Mathes Lake. Figerld Garcia replied that they take surface water samples before and after soil excavation to ensure there is no contamination. Paula Graham said there was contamination in the lake in the past. Jon Rankins, USACE said there has been current and historic water and sediment sampling at Long Creek with no contamination found. Zaynab Murray added that there is a current investigation at Mathes Lake.

Vaughn Moore asked what is tested in the soil at the firing sites. Jon Rankins said they test for multiple types of contaminants including explosives. If there were any gamma radiation it would be detected. The sorter has two very sensitive detectors, hand cuff instruments are also used to do field measurements and there are many samples taken to find any contaminants. Vaughn Moore asked if the contaminated soil is just stock piled until they ship. Ron Rankins replied that it is stock piled, covered and managed until the shipping campaign is ready. We do one or two shipping campaigns a year because it takes a lot of people and money to do one shipping campaign. Rail cars are used to ship the contaminated soil which are sealed and packaged per DOT requirements. Mark Hagerla asked in the analysis of the soil contaminants is there a chart of the findings and quantity. Ron Rankins said not with him today, but they do have the measurements chart of contaminants. There are millions of measurements collected. The large data package is summarized in charts.

George Dieckmann asked if the soil cover has a complete gap or is there a possibility of leaching. Figerld Garcia explained that the soil has geo-fabric mat at the bottom and there is a covering. When the soil is being moved they also dig down six inches and dispose. Zaynab Murray mentioned that there is a picture on page 3 of the handout that can give you a visual of the area and material used. Paula Graham asked if the plant has records of water samples for radiation. Ron Rankins said they have testing records. There is an environmental monitoring report every calendar year that includes all sampling results and the record of decision has results. Paula Graham asked if there were records that date back to 1950. Ron Rankins replied no. Zaynab Murray replied that currently Mathes Lake is being investigated and the document will be made available to the public.

IAAAP OU3 Project Update

Darlene Abbott, Aerostar project manager briefed the RAB from her slide presentation shown in exhibit 4 (IAAAP OU3 Project Update).

Vaughn Moore asked if you do any sampling in brush creek inside the plant. Darlene Abbott replied that Aerostar does not. Zaynab Murray replied that there is one sample point inside the plant. Mark Hagerla asked is the surface water contamination source has been located inside the plant. Darlene Abbott said that is not part their objective but there has been some programs that have been conducted in the past that eliminated some onsite sources and then evaluated the surface water concentrations. The report stated there was not a difference when trying to find the source of contaminate. Mark Hagerla stated that when there is a heavy rainfall there is a substantial amount that runs off the plant. Zaynab Murray said they are in the process to contract to investigate for a source of the contamination. Mark Hagerla voiced his concern of the amount of time it takes to investigate. Zaynab Murray replied that brush creek is sampled monthly. By next summer there will be a new contract in place that will continue the investigation.

Dan Cook, IDNR stated that he gave comments to the draft reports this summer and one comment was based on the rule making to take place to create the offsite protection zone for groundwater well installation which requires Des Moines and Lee

counties to refer any well an application for Iowa approval. The rule making process has been at a standstill for years for the Army's lack to answer simple questions. Dan has sent multiple emails and letters and the Army has not answered any questions. The rule making has been canceled by the IDNR which was stated in the letter. Dan Cook stated that the Army has ignored our requests so they stopped the rule making process. Is it inaccurate to list in reports? Zaynab Murray stated that they are not ignoring the IDNR; it is with the Army attorney which has been the hold up. Dan Cook replied that they are not doing anything further with it.

Sandeep Mehta asked per the IDNR aspect, what are the criteria for the remedial design implementation. When was the OU3 ROD signed. Darlene Abbott replied in 2007. Sandeep Mehta asked what was the criteria for the OU3 implementation of the remedial design. Darlene Abbott replied that the OU3 criteria is to monitor the defused plume until the concentrations are below 2 ppb. Active remediation is required for concentrations that exceed 50 ppb. Sandeep Mehta asked if that was the only criteria. Darlene Abbott said that is the ROD criteria for active remediation. Sandeep Mehta asked is land use controls part of the remedy. Darlene Abbott said the land use control is part of the remedy and the plans are in internal draft currently. Sandeep Mehta stated that the land use controls have not been implemented so far. The Army has been ignoring from December 2013 the emails that have been send requesting information. The Army isn't able to bring up any source for legal help. EPA has offered legal help and still the remedial design has not been implemented. The south side of the plume has not been monitored for how long. Darlene Abbott said it is the east side which has two monitoring wells and they were last monitored in 2011. Sandeep Mehta said that for the past four years there is no monitoring which means the land has been contaminated on the east side which ignores the CERCLA criteria for not contaminating additional land. The Army has not been able to obtain any legal help for the last two years and does not respond to the rule making process which means the land use controls have not been implemented, and the third part is the two wells on the east side are not monitored which means are out of compliance. Therefore the remedial design is not complete. Zaynab Murray said she wouldn't go as far to say that the contamination has gone further. Sandeep Mehta said she did not know that. When would you implement the wells when they haven't been for the past four years. Zaynab Murray said that is another topic that has been in legal review for the past two years. Sandeep Mehta said the wells haven't been monitored since 2011. The Army can't find legal help. Zaynab Murray said unfortunately we don't have those representatives here to explain this situation. We don't have lawyers on staff to address this issue. We have to go to other commands for legal support. Sandeep Mehta said the Army is impacting the health and the environment with risk. This should be the highest priority for the Army. What would it take for the Army to get legal help and get this done before the next RAB meeting. LTC Wolfe replied that there are millions of people that work for the Army. LTC Wolfe needs specifics so that he can get his command involved in the process to get it moving forward. Matt Dayoc, USAEC stated that there are private entities involved as well. The Army can't take arbitrary action to say we are coming on your land to sample. Sandeep Mehta said EPA has offered help. Matt Dayoc said he appreciates that but you don't represent the Army. Sandeep Mehta said there is a way we can get access and that

needs to happen. Sandeep hopes internal staff can request your help for the legal aspect that has been stuck for two and four years. My concern and request is this is updated every month to the RAB members and public so everyone knows the progress.

Mark Hagerla said he has been here since the beginning and this is a meaningful conversation. We have wetland development in the area and brush creek runs into it. The wells have always been monitored to his knowledge and this is the first time he heard they haven't been since 2011. He appreciates the interest but believes he is being stonewalled. Sandeep Mehta strongly requests updates monthly to the RAB to track development closer. LTC Wolfe replied that intent to complete is difficult and he can't promise to complete. We will get an update and get this process moving forward and there is some work to do internally. He can't promise to get this fixed by the next RAB. Zaynab Murray stated to Sandeep Mehta that you are well aware of our legal issues and the fact that before LTC Wolfe came on board we had one lawyer addressing these issues and there has been an additional new lawyer and a transition that has been taking place between lawyers. This has added to the time it has taken. LTC Triplett went up the chain to ensure the first lawyer would take care of these issues speedily for us then the transition happened between lawyers. I just wanted to make sure you and LTC Wolfe were aware of that. Sandeep Mehta said everything is understood but that doesn't justify the idea that you put the human health and environment at risk. If the colonel can't find the resources then who can? You are the commanding officer of this installation and the responsible party for these members and the city of Burlington. LTC Wolfe said he would provide some answers. Elyn Holton-Dean replied that she appreciates you speaking up and as a representative of the community it sounds like this is a major concern. I did not know of some of these things going on internally and maybe we should be updated periodically. If we aren't being proactive and something is just being put out there on the table, then it seems as if someone is hiding something. We know that is not the intention. We understand how there have to go through processes. As a community this has been an ongoing topic, we just need to be upfront. We are human, we are going to make mistakes and people move on and drop the ball. If we continue to bring issues up and discuss them openly and honestly, we can make some headway. Keep bring up your concerns so we can move on. Vaughn Moore said and directed to Mark Hagerla that over the years he feels that every time we got an individual involved that started working with us and finding out information from us to clean something up, all of a sudden that person was not a RAB meetings anymore, transferred or promoted or whatever. We have fought this since day one. This is a prime example of what has happened since the RAB was founded. It is very frustrating. We had a physical report done on the health of this community and area. We can't get it published because the Army funded it and it didn't come out to the Army's side so it will never be published. Zaynab Murray asked what he was speaking of. Vaughn Moore said Doctor Hall. It seems like there has been a rotate of staff over the years. When Kevin Howe started he asked questions and then we couldn't talk to the RAB. Then he was gone and the next one that comes in didn't know anything that was going on. Jesse Kahler stated that he is aware of the issues and they will be continued to be addressed. Steve Bellrichard stated that Kevin Howes departed when the Corp was relieved of their duty. The Army switched from a Corp based contract to a

private performed based contract that brought Rick Arnseth here. So it went to Kevin Howe to the RAB seeing Rick Arnseth. The Army did not hide Mr. Howe; he went on to other duties with the Corp. These insinuations are not helpful and do not tell an accurate picture at least from my perspective.

Hans Trousil stated that he noticed a Tetra Tech truck was at sitting at highway 61, is that were the BC-off 6 sampling is at. Darlene Abbott said that they conducted the injection event earlier this month and to help us to better assist how the injections are impacting the groundwater, we have a probe that we lowered into monitoring well 309 which is over the criteria, we are monitoring. Upon retrieving that probe, it fell into the well and Dean Johnson with Tetra Tech was trying to retrieve that probe. You will see his truck there in the next few weeks. We are continuing to monitor these perimeters so that we can have a better report this year as to how the injections are influencing groundwater. Sandeep Mehta would like to add that EPA has an interest of the Army getting access to these private well sites. EPA offered their help for the last two years. If the Army cannot get access to the sites then EPA has the authority to come in and work with that private party and put them on notice that if they do not give access to the Army that EPA will hold them liable for any contamination on their property. So we do have that authority as an agency. I understand that the EPA and the Army are two different independent agencies but the EPA does have the authority to come in and assist the Army in case of such a situation. We do have a huge interest ensuring that this goes on according to what the ROD states, signed by the EPA and Army. I still offer the Army assistance in case you don't have access from the private parties. Dan Cook said the State has the same authority too.

Paula Graham asked if money is an issue. LTC Wolfe replied we have three full time environmental staff working hard all the time and part of it is resourcing and the authority to hire lawyers. Steve Bellrichard stated he doesn't know why we can't get the AEC lawyers to answer, but in November 2013 the IDNR representative asked the Army questions to support the development of the groundwater protection zone. So the IDNR was helping the Army do the third thing the ROD requires; to protect the public. We decided to try to stop people from putting wells into this contaminated area. We had to go to the law making process for Des Moines and Lee counties. The root cause of this issue is AEC not having enough legal support for this issue to get to the priority list. Hans Trousil stated he said this is the first time it was mentioned about having issues with not getting access to the wells. Rick Arnseth said he remembers talking about the issue in 2011 and it is in every annual report since then and you have access to the reports. LTC Wolfe said we will ensure it is highlighted in the updates.

IAAAP OU5 MMRP Update

Laura Perifield, USACE project manager briefed the RAB from her slide presentation shown in exhibit 5 (IAAAP OU5 MMRP Update).

Mark Hagerla asked what is the reason for fencing in the areas. This is a restoration advisory board and the ground is to be restored to usable purposes. Laura Perifield replied that fencing was put up because that was the alternative chosen during the

remedial investigation for the ROD. It was determined that financially and to protect human health and the environment that the fencing would be put up at this time. If it's determined later on with the five year reviews or any other processes that something else needs to take place they will do it at that time. But for right now that was the alternative chosen to fence off the area. Mark Hagerla asked what was determined inside the fenced in area that needed fencing. Laura Percifield replied that it was munitions.

New Topics/Old Business

Steve Bellrichard briefed the RAB of the status of the current building demolition process.

Luenne McCracken asked if the results for the Mathes Lake investigation will be at the January meeting. Zaynab Murray replied that H&S is to present at the next RAB meeting. George Dieckmann asked why document after the ROD are not available online. Sandeep Metha replied that they are not required by CERCLA to be added online.

Next Meeting/Agenda

The next meeting is scheduled for January 12, 2016, 9:00 a.m. at the Burlington Public Library Room A. Agenda topics:

- Mathes Lake Update
- OU3 Land Use Controls
- Contracting Progress

The meeting was adjourned at 11:04 a.m.

Original signed by:



Jen Busard
Secretary

Original signed by:



Elyn Holton-Dean
Community Co-Chair

Original signed by:



Zaynab Murray
Army Co-Chair

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| Exhibits: | 1 | Attendees |
| | 2 | Agenda |
| | 3 | IAAAP FUSRAP Update |
| | 4 | IAAAP OU3 Project Update |
| | 5 | IAAAP OU5 MMRP Update |

Exhibit 1

GOVERNMENT MEMBERS PRESENT

(4)

LTC Aaron Wolfe
Zaynab Murray
Sandeep Mehta
Dan Cook

RAB MEMBERS PRESENT (9)

George Dieckmann
Mark Hagerla
Elyn Holton-Dean
Thurman Huffman
Alan Koenig
Vaughn Moore
Hans Trousil
Dean Vickstrom
Bruce Workman

PUBLIC PRESENT (16)

Jen Busard
Erik Spande
Andrew Spyrow
Rick Arnseth
Dean Johnson
Darlene Abbott
Laura Percifield
Steven Bellrichard
Aaron Steele
Matt Dayoc
Figerald Garcia
Vick James
Paula Graham
Lueene McCracken
Jon Rankins
Jesse Kahler