

**IOWA ARMY AMMUNITION PLANT  
RESTORATION ADVISORY BOARD  
MINUTES  
January 22, 2009**

The Restoration Advisory Board meeting was called to order by Eric Orth at 5:00 p.m. on January 22, 2009 at the Stonegate Parlor C Room located in the Comfort Suites Hotel.

**Minutes Review**

The minutes were accepted as written.

**Agenda Review**

There were two changes to the agenda. The FUSRAP Update will be provided by Ms. Linda Wobbe from IAAAP vice Ron Frerker and the MMRP Update will be provided by Mr. Terry Thonen from URS vice Jady Harrington.

**Public Comment**

No comment at this time.

**Project Update**

Rick Arnseth briefed the RAB from a slide presentation. Please see exhibit 3 for his presentation.

**Off Site Brush Creek Investigations**

Paula Graham asked if RDX was still being released by the IAAAP. Rick Arnseth confirmed that, yes, there is still RDX being released via Brush Creek. Paula asked what the highest RDX concentration level was in the offsite portion of Brush Creek. Rick responded, referring to the map, that 14ppb was the highest level.

Vaughn Moore asked about the amount of pressure the injectate is being pumped into the ground. Rick Arnseth responded that it depends; in the offsite area they don't use any pressure because the area is so sandy and will take any liquid they put in. In the onsite areas, however, it varies from spot to spot. Rick doesn't know the exact numbers, but early on there was a pop off valve that would automatically release when they reached a certain pressure and it would go off occasionally so for safety reasons, they don't inject with that high of pressure. Vaughn noted that when anything is injected into the ground, it can push stuff out of the way so he is concerned that we are pushing the contamination away and therefore, getting good readings. Rick stated, referring to the map, that some of the numbers are changing and they are injecting from the outside in so if they are pushing the contamination around, they are pushing it into another area where they have injected already. Rick agreed that you do move stuff around when injecting into the ground – it has to go somewhere. Vaughn noted that some of the test wells are drilled into bedrock which is aquifer and you can push stuff real easy. Rick said they are not injecting into the monitoring wells. Scott Marquess asked how deep Tetra Tech is injecting. Rick responded that they are injecting as deep as 12 to 15 feet. Rick added that the injectate tends to resist being pressed into the formation.

Vaughn Moore questioned what was being monitored in the groundwater at Line 2 and wondered if it was RDX. Rick responded that, yes, they are monitoring RDX at Line 2.

### **MMRP Update**

Terry Thonen briefed the RAB from a slide presentation. Please see exhibit 4 for his presentation.

### **Geophysical Investigation Field Activities**

Vaughn Moore questioned if URS walked the Central Test Area (CTA). Terry Thonen responded that, yes, they did walk the CTA and found a lot of nails, bolts, and tiny pieces of frag on the surface. Terry further indicated that they found a lot of anomalies there and they have a lot of digging to do.

### **FUSRAP**

Linda Wobbe briefed the RAB from a slide presentation. Please see exhibit 5 for her presentation.

### **Line 1 and West Burn Pads South Remedial Actions**

Paula Graham asked what buildings at Line 1 the excavations went around. Linda Wobbe responded that the excavations at Line 1 were scattered and grouped by similar types of geographical areas and similar types of contamination.

Thurman Huffman asked for the list of building numbers that the excavations were around. Linda responded that she did not have the list of buildings with her. Scott Marquess added that the excavations were completed in areas where you would expect contamination, like the melt buildings. Scott added that he thinks that FUSRAP excavated around the pink water treatment building as well. Rodger Allison added that this is just preliminary information; we will have more information from FUSRAP later. Scott added that there was not any radiological contamination found. This information is in regards to the contaminated soil removed. The only radiological contaminant of concern is the Depleted Uranium at the Firing Site.

Paula Graham asked if there are people working in the buildings now where PCB's were found. Linda Wobbe said it depends on which building. Some excavations go right up to the buildings. Linda added that there are a limited number of people working at Line 1. Paula mentioned that she has people coming to her who worked there since nuclear operations were moved to Pantex and have cancer. Paula noted that PCB's were pretty bad things. Scott noted that there was only one area excavated for PCB contaminated soil. Lueene McCracken asked about the paint in buildings and wondered if it contained PCB's. Linda said that it depends, PCB's were used in paint, but FUSRAP is not looking at PCB contamination in the buildings, only the soil.

Tonya Meeler questioned when the PCB and SVOC contaminated soil, currently staged at the Inert Disposal Area, would be transported off site for disposal. Linda Wobbe responded that she is unsure.

Paula Graham asked if there are any buildings at Line 1 that cannot be entered because of radioactive contamination. Rodger Allison responded that he is not aware of any buildings that cannot be entered due to contamination. Rodger further added that the buildings have been sampled and swiped and there are no restrictions as far as access based on radiological contamination.

Rodger Allison pointed out that there are a couple buildings where they found very small levels of radiological contamination in caulking and cracks in building 1-11. Rodger could not

remember the other building numbers. Steve Bellrichard thinks some items were found in buildings 1-11, 1-12, and 1-66-3. Scott Marquess added that some of the items found were removed.

Paula Graham had a list of buildings with radioactive materials and questioned if any workers have entered those buildings and have been exposed to residual contamination. She is concerned about workers exposed during the 1975-2000 time-frame. Paula further added that the air filters were contaminated with radiological material. Rodger Allison said he is sure there are workers who entered the buildings during the time she referenced; he doesn't know who entered before the material was removed. He doesn't know the level of exposure, but is sure workers were in the same room. Paula said that quite a few workers who worked on Line 1 have cancer. Paula is working with a nuclear specialist and trying to get people covered under [worker health claim] for their cancer to get medical care. Rodger said it would be an individual assessment as to what exposure they would have had and how often they would have been in there. This would have to be assessed by the folks Paula is talking to. Rodger said they may be able to determine from the levels found and how often they went in there to reconstruct exposure, but we must leave it to the health professionals to figure that out. Scott noted that we need to consider that there may have been other sources that aren't represented by those limited findings.

### **Public Comment**

Vaughn Moore asked if they were going to clean up the bank at the pistol range where the lead is going into the creek. Rodger Allison said that a program known as the Operational Range Assessment Program (ORAP) will address the site since it is an active range. ORAP will also recommend a source to assess the site. The Army is also assessing it under the Compliance Cleanup Program. Rodger concurred that much of the berm collapsed into Long Creek. Vaughn added that a lot of people used that area to shoot including Army Reserve, National Guard, Burlington Police and Sheriff's Department. Scott Marquess asked Vaughn if he knew when the pistol range was constructed. Vaughn indicated he does not know when the area was constructed. Vaughn then mentioned that he used to go out there (pistol range) and cross the creek and pick up the lead that washed out of the bank and he would take it home and make lead balls. Rodger added that we do have efforts in place to address that site and we should hear more as time goes on.

Rodger Allison expressed his condolences for the passing of Howard Reif. Howard use to attend almost every RAB meeting.

Rodger Allison mentioned that the IAAAP Administrative Record is now available online and is fully searchable. The web address is listed on the Agenda.

Rodger Allison mentioned that the Army just received approval to perform an assessment to sample the wells for the five offsite residents who reside above the groundwater aquifer impacted with RDX. It has been about 10 years since their wells were last sampled. Paula asked if this was in the Wever area. Rodger responded that it is the area along old Highway 61 north of Wever.

Paula Graham asked if the off-site groundwater contamination could go deeper into the aquifer. Rodger doesn't think so because there are tight clays and bedrock underneath the plume. Rick added that the material underneath the deepest well (i.e. MW117) in the highest concentration area is very unlikely to transmit contamination lower.

Tonya Meeler asked about the progress of building demolition. Rodger Allison responded that they are currently working with the EPA regarding PCB's in paint and the disposal of that material once the buildings are taken down. Rodger further added that he will probably know more later this year, but we are on hold right now.

**Next Meeting/Draft Agenda**

The next meeting is scheduled for July 21, 2009 at the Winegard Board Room located in the Burlington/West Burlington Area Chamber of Commerce. Agenda topics suggested were IRP project update, MMRP update, CC Update, and FUSRAP update.

The meeting was adjourned at 6:10 p.m.

Original signed by:  
*See original for signature*  
Sara Garland  
Secretary

Original signed by:  
*See original for signature*  
Eric Orth  
Community Co-Chair

Original signed by:  
*See original for signature*  
Rodger Allison  
Army Co-Chair

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|-----------|---|---------------------|
| Exhibits: | 1 | Attendees           |
|           | 2 | Agenda              |
|           | 3 | Restoration Project |
|           | 4 | MMRP Update         |
|           | 5 | FUSRAP Update       |

Exhibit 1

**RAB MEMBERS PRESENT**

Marjorie Fitzsimmons  
Dan Nelson  
Eric Orth  
Dean Vickstrom

**RAB MEMBERS NOT PRESENT**

Mark Hagerla  
Elyn Holton-Dean  
Richard Johnson  
Bruce Workman

**GOVERNMENT MEMBERS PRESENT**

Rodger Allison  
Scott Marquess  
Dan Cook

**GOVERNMENT MEMBERS ABSENT**

Dan McGhee  
LTC Benjamin Nutt

**PUBLIC**

Vaughn Moore  
Jady Harrington  
Terry Thonen  
Dean Johnson  
Linda Wobbe  
Sara Garland  
Thurman Huffman  
Bob Zaruba  
Sivert Iversen  
Christinia Crippes  
Tonya Meeler  
Cyril Onewokae  
John Carroll  
Paula Graham  
Lasca Yerrington  
Chris Wiehl  
Lueene McCracken