

**Final Meeting Minutes
Restoration Advisory Board (RAB) Meeting
Sunflower Army Ammunition Plant (SFAAP)
Wednesday, March 3, 2004**

1. The thirty-sixth RAB meeting was held on Wednesday, March 3, 2004, in the Clearview City Ball Room. Copies of the agenda and sign-in sheet are attached. Mr. Tony Spaar, the Commander's Representative at SFAAP and Army RAB Co-chair, called the meeting to order at approximately 6:00 p.m. Introductions were made around the room.
2. Mr. Bill Maasen, the Community RAB Co-chair, then asked for comments regarding the draft minutes from the January 7, 2004 meeting. Mr. Dave Rhodes moved that the minutes be approved as submitted, seconded by Mr. Tom Price. Minutes approved without change.

3. IAP Workshop Update

Mr. Spaar stated that there was a \$13 million increase in the budget. This money will be for FY05 and forward. There are 54 sites to be worked on at SAAP.

\$30.3 million has already been spent at SFAAP on investigations, clean-up, etc.

Mr. Spaar was asked if the use of RACER software increased the cost for new sites? Mr. Spaar answered that the cost did not increase on new sites because RACER had not been used on the new sites due to the fact that they were not RRSE scored by CHPPM until after last years IAP Workshop. However, there was an approximate 10% increase on old sites caused by the RACER software in last year's IAP Workshop.

The IAP is currently in draft form. March 8, 2004 is the last day to receive comments from Army personnel. The comments will then be reviewed and the IAP will be finalized and printed.

4. IRP Project Update

A. FY04 Obligation Plan

Mr. Mark Keast, Project Manager USACE, stated that the FY 2004 Obligation Plan had a total of \$1.8 million. Of that total \$0.9 million has already been obligated to the RFIs for SWMUs 3, 14, 10, the LTM of SWMUs 13, 27, 41, 48 and S&A for SWMU 22.

Mr. Keast stated that the following have been negotiated with Shaw Environmental, Inc. and will require all the remaining planned obligations for FY04.

IRA SWMU 1, AOC 18
RFI SWMU 18
RFI SWMU 60
RFI AOC 22

Mr. Keast stated that the plan is to continue negotiations to take advantage of possible year end funding. The sites being negotiated include the following:

RA SWMU 10
10 more RFIs

B. Corp of Engineers Update

SWMU 11 – F-Line Area Settling Pond – The spring and fall sampling events are complete and the results were received in October 2003. The report was sent for regulator review in February 2004.

SWMU 33-35 – Ponds and half tanks at the Nitroglycerine and Paste Mix Areas – The wells at SWMU 33/35 were sampled in May/June 2003 and again in September 2003. No results from the May/June sampling event were above the remediation goals and only one parameter was detected above the remediation goal for the September event. Lead was detected in well 33-04. It was detected at 165 µg/L. This well was re-sampled in November 2003 due to high turbidity in the original sample. Lead was detected in both the filtered and unfiltered sample at 28.8 µg/L and 29.3 µg/L respectively. These results are in excess of the remediation goal of 15 µg/L but are significant decreases from the original result.

AOCs 1, 18, 19, 20 and 21 and SWMU 66 – Draft Relative Risk Assessment report has been distributed to an in-house team for review and comments. Comments have been received and incorporated. A draft-final was mailed to the regulators for review.

SWMU 50 – Disposal Site East of the classification yard – The site was re-inspected on February 20, 2004 by Mr. Spaar, Mr. Tim Davis, Ms. Donna DeCarlo, and Mr. Phil Rosewicz. Small amounts of transite siding were found. Mr. Rosewicz is writing the report.

SWMU 66 – Installation Wide Stream study of Captain Creek, Kill Creek, Spoon Creek and Hanson Creek – The low flow sampling for phase II was completed November 13, 2003. The remaining sampling includes confirmation and verification sampling that will be collected during the spring and fall rain seasons of this year.

C. Shaw Update of Ongoing Work

Task Order 004 – SWMU 22 – Old Explosive Waste Burning Grounds

The Final Delineation Field Sampling and Analysis Plan was submitted to the TRC and approved. Remote explosive sampling in the nitroglycerine slums area, adjacent ditches and burn cells has been completed,

Draft Final RA/CMI work plan for SWMU 22 was submitted and approved. Field work has been initiated. Excavation is scheduled to begin next week. The scope of work for this project is to safely and efficiently remediate this high risk site by removing, treating and disposing of affected surface and subsurface lead contaminated soils to achieve clean closure of site.

Task Order 007

(SWMU 66) Phase I Stream Study

Shaw has completed sediment and surface water sampling for phase I.

Phase II Stream Study

Phase II will include sampling to conduct annual water quality monitoring from “in-drainage” and “in-stream” locations, confirm the water quality as it enters the plant and it leaves the plant boundaries, and to target specific analytes in-stream that were detected during Phase I study. Shaw is anticipating completing the sampling this spring (weather dependent)

SWMU 1, AOCs 18, 19, 20 and 21

Draft RFI Report and QCSR have been issued to the TRC. Comments were received, evaluated and responses forwarded to the TRC. Additional sampling and clean-up is being scheduled for FY04.

SWMU 21 – Contaminated Materials Burning Grounds

RFI Investigation – Shaw has completed all planned surface and subsurface soil sampling and analysis. Analytical results showed Arsenic, Lead and low levels of Dioxin in soils. A CMS has been prepared and is in the review stage.

Excavation and Bioremediation Pilot Test – Bioremediation treatment is currently under way. Contamination levels have dropped each progressive sampling event. Ultimately, the Army hopes to re-use this soil as backfill at the plant.

SWMU 39 – South Acid Drainage Ditches

Draft RFI Report and QCSR have been issued to the TRC. Comments were received, evaluated and responses forwarded to the TRC. Additional groundwater sampling is being scheduled for FY04.

SWMU 44 – Tank T-748

Surface and subsurface soil and groundwater samples have been collected and analyzed. Report has been completed and provided to TRC. Comments are pending.

SWMU 45/47 – Calcium Cyanamide Conveyors & Storage Units, Building 9040, Nitroguanidine Production Area Sumps (23)

All sampling has been completed. Draft RFI Addendum has been distributed. Comments are pending. The SWMU 47 sump data (Building 9040 sumps) will be archived until the RFI funding is obligated in FY 2005 (completion of the SWMU 47 sump investigation – 19 remaining sumps).

Disposal Optimization Conceptual Plan

Shaw submitted a draft of the Corrective Action Management Unit (CAMU) soil repository conceptual plan to the TRC in December 2003. Comments were received in February 2004. Responses have been prepared and letter is awaiting distribution.

Disposal Optimization Treatability Study (DOTS)

The Army is conducting a Site-wide Treatability Study to stream line remedial design, administrative record documents, and Army decision documents. The draft-final has been submitted, the final is in preparation and work is expected to begin in March 2004.

Task Order 008

Task Order 008 is funded to execute RFI investigations for SWMUs 3, 10, 13, 14, 20, 27, 38, 41, 48 and 52. Additional funding has been allocated to complete a site-wide explosive safety assessment, database consolidation and development of a data delivery system at SAAP.

SWMU 10 – F-Line Ditches and Mechanized Roll Area

Phase 1, 2, and 3 sampling which included surface soil sampling around building foundations and ditches and subsurface soil sampling adjacent to building foundations have been completed. Analytical data is being used to determine the soil cleanup volume and preparation of map delineating these soil excavation areas..

SWMU 20 – Lagoons and Sludge Disposal Area

Field Investigation soil sampling work has been completed. A RFI addendum has been prepared.

SWMU 52 – Paint Bay Building 542

Field Investigation soil sampling work has been completed. A RFI addendum has been prepared.

SWMU 38 – Oil Separator Building 542

Analytical data is being reviewed and will be incorporated into an RFI addendum.

SWMUs 3 and 14 – Main Sewer Treatment Plant and Static Rocket Test Area

Field work for these SWMUs is scheduled to begin in April 2004.

SWMUs 13, 27, 41 and 48

Lack of groundwater has postponed sampling targeted for spring of 2004.

Site Wide Explosive Safety Assessment

A draft site-wide explosive characterization sampling plan is being finalized to identify if concentrations of explosives exists that might prevent further environmental investigation and remediation at select SWMUs. The draft plan is being formatted and prepared for distribution to the TRC.

Database

The integration of historical data has been completed. Shaw continues to add data being generated during ongoing field activities. Conversion and loading of data from Shaw's database to the Army's database is ongoing.

5. New Business

- The Department of Defense is modifying the guidelines on how to operate a RAB. These modified guidelines will be put into the Federal Register, then there will be 60 days for comments to be made.
- The Army has proposed to do a study of the RABs nation wide. They would like to sit in on RAB meetings and would like to interview members. Mr. Spaar then asked for feedback from the members of the RAB after they had ten minutes to think it over. Mr. Spaar was asked how many total RABs there are. Mr. Herstowski responded that there are 229.

6. Question and Answers

- Mr. Spaar was asked "Where is the physical location that Spoon Creek becomes Kill Creek?" Mr. Spaar responded that they merge together just west of where Kill Creek enters the plant.
- Mr. Spaar was asked "What pesticides were found in the creek coming on-plant?" Mr. Spaar responded that the following pesticides/herbicides were found in the creeks coming on-plant: 4,4-DDT, Aldrin, Dieldrin, Endosulfan II, Endrin, Heptachlor, Heptachlor epoxide, Methoxychlor, and Toxaphene. Mr. Spaar also said that dioxin (2,3,7,8-TCDD), Mercury, and the following SVOCs were found in the creeks coming on-plant: Di-n-butyl phthalate, Dimethyl phthalate, Pentachlorophenol, and Hexachlorobenzene.
- Mr. Spaar was asked "How much will the land sell to the developer for?" Mr. Spaar replied that although the appraisal has not been completed and the negotiations have not been completed that the developer would have to perform the amount of environmental work that is equal to the appraisal of the land. If the land is appraised at \$75 million then the developer is responsible for the cleanup up to that amount. The Army would still be responsible for any additional clean up. If the developer would clean up the plant for less than the amount then they would pay the Army the remaining difference.

7. The next RAB meeting will be held on May 5, 2004 (first Wednesday of the month) at 6:00 pm. This meeting will be a bus tour of the site. RAB members were asked to get there early because the bus will be leaving at 6:00. The meeting place will be outside the guard shack at SFAAP.
8. Mr. Spaar announced that the agenda will be the bus tour. For future meetings the following will be removed:

Item #3 – IAP Workshop Update

9. Meeting was adjourned at 7:30 pm and opened up to non ER,A updates and questions.