

**MEETING MINUTES, DUPONT CHAMBERS WORKS FUSRAP SITE
RESTORATION ADVISORY BOARD MEETING**

To: Interested Parties
From: Gary Rohn, U.S. Army Corps of Engineers, Philadelphia District
Re: Minutes of December 12, 2000 RAB Meeting

RAB Members Present	Affiliation
Janet Agnew	Community
George Bock	USACE
Douglass Fogg	Community
Charles Kohler	Community
Steve Rogers	DuPont Chambers Works Rep
Glenn W. Braswell	Salem County Rep
Glen Donelson	Pennsville School District/Community
Armando Fernandez	Engineer, DoD
Gary Rohn	USACE
Francis Faunt	Community Co-Chair
Tom Heinbaugh	Deputy Chief – Carneys Point Fire Dept.
Ed Micallef	Chief – Carneys Point Fire Dept.
Al Boettler	DuPont
Ron Giordano	Community
Teruo Sugihara	NJ DEP
RAB Members Absent	
Robert Bender	Community
Frank Faranca	NJ DEP
James Kates	Carneys Point Rep
Paul Morris	Penns Grove Rep
John Clemente, Jr.	Community
Catherine Dare	Community
Jim Gant	Community
Andrew Park	EPA, Region II
George Reed	Pennsville Rep
Guests Present	
Glen Stevens	Hydraulic Engineer

7:00 p.m. Welcome and Introductions (*Sandra Chaloux, CEC, Inc.*)
 Sandra welcomed the meeting participants to the RAB meeting for the DuPont Chambers Works FUSRAP Site. Meeting attendees introduced themselves. No corrections were made to the meeting minutes from May 8, 2000.

7:10 p.m. Army Corps/FUSRAP Update (*Gary Rohn, USACE Program Manager*)
 Gary apologized for the change in meeting date and explained that there was an emergency at another site that he and George Bock had to attend to.

Technical Project Planning (TPP), Gary Rohn, USACE
 Gary described the TPP meetings as a way to establish a partnership with a multidisciplinary team with differing perspectives and a way to discuss the use of funds for the project. The first TPP meeting was held in June 2000. Meeting attendees included members of the Army Corps’ Philadelphia District, Baltimore

District, and Omaha District (the Corps' Center for Expertise for Hazardous, Toxic, and Radiological Waste). A second session was held on the October 23 and 24 with the Corps, Dupont, NJ DEP (Frank Faranca), and EPA Region II.

The first step in the TPP process involves establishing the decision makers for the project including the Corps, regulators, and stakeholders. The Corps will be partnering with the "data users" – the people who will be using the project data including those who are associated with the risk. The Corps will be helping them to define what the nature of the problem is at the site.

Other users such as the data implementers fit into the compliance aspect of this project. The data implementers are important because they have to go out into the field and do the sampling and analysis. The remedy group will be determining how to fix the problem, and the responsibility group will determine whose problem it is.

The Conceptual Site Model provides a framework to review the site information and identify data gaps. The minimum components of the Conceptual Site Model include the source area, environmental setting, the release mechanism, migration pathways, exposure routes, and receptors.

The Site Closeout Statement will indicate all the appropriate CERCLA response activities related to FUSRAP contamination at the DuPont Chambers FUSRAP site that have to be completed. Gary said that it is important to "begin with the end in mind," and find out quickly and accurately whether or not remedial action will be necessary.

One of the CERCLA objectives is to determine what the major extent of the source area of the material is, for six locations. Another objective is to establish a grid so the Corps can do sampling. An additional key focus will be the constraints and dependencies with the work at the site. These will need to be identified before they become a problem. Some of those constraints are associated with the field activities and project execution related to the sampling.

All of these factors are geared toward the partnering relationships among the various groups within the Corps of Engineers, DuPont Chambers Works, EPA Region II, and NJ DEP.

Since the last meeting, the Corps has been able to obtain groundwater data for use in the groundwater model including oxygen and pH levels that correspond with the existing DuPont groundwater wells. The Corps also did some surface water sampling in November at the Lagoon A location. Those samples are being analyzed at the lab.

Project Web Site – George Bock, USACE

George reviewed the draft layout of the DuPont Chambers Works project Web site that included information about FUSRAP, project history, public meeting information, community relations, press releases and newsletters, work accomplished, photographs, administrative records, and FUSRAP links.

The Web site is not yet live, but George anticipates that it will be live online in the next 30 to 60 days.

Project Overview – George Bock, USACE

A site history investigation is in progress, and the Corps is evaluating and reviewing the data. The Corps is also incorporating the information from the October 2000 TPP into the final investigation results.

The Corps has been collecting existing mapping data so a survey of the DuPont site can be prepared in January 2001. The review of the DuPont files has been completed; it will be incorporated into the GIS map. A GIS database is also being created; it will be structured in such a way that all modeling and soil information can be collected

Two water sampling events have taken place since September – one was in mid-September 2000 and the other in mid-November 2000.

Since George has been away for the past 2 months to attend to an emergency assignment, the project is slightly behind schedule. Therefore, the next RAB meeting will not be held until May 2001, and the field plan will be delayed. It will begin February 2001 and extend through May 2001. The field data and analysis will be done sometime between May and August 2001, with a proposed RAB meeting in October 2001.

The Remedial Investigation (RI)/Feasibility Study (FS) will be done between July and November 2001, with another RAB meeting anticipated in February or March 2002. The next proposed plan will be formulated between November 2001 and March 2002, with the next RAB meeting to be held in February or March 2002. The final Record of Decision (ROD) will be complete sometime between March and September 2002 with a RAB meeting anticipated in September or October 2002.

The complete Remedial Decision (RD)/Remedial Action (RA) will last between September 2002 and December 2004. The Operation and Maintenance (O&M) Phase will last between January 2005 and December 2006.

Groundwater Modeling – Glen Stevens, Hydraulic Engineer

The goal of the groundwater modeling is to determine where the uranium has gone. There are two tasks involved in this project: First – how mobile is the uranium? Second – if it's mobile in the environment, where did it go, and how far did it go? The Corps will use the groundwater model to determine what direction to look.

The Corps does know that uranium is not normally very mobile, unless there are extremes in pH, which can cause it to be mobile. A community member asked if it is possible that the uranium would have traveled offsite and seeped into drinking water. Glen answered that that is something they will be researching with the groundwater model. Most uranium has been found within a few feet of the surface – not farther down than 6 feet.

Glen showed a chart of the locations of the pumping wells and what areas their areas of influence. He also showed an example of another groundwater model with a groundwater contamination plume for another site. He showed the RAB what the plume looked like in 3-D.

8:20 p.m. Public Issues/Comment (*RAB and Community*)

Draft Operating Rules

The operating rules were approved unanimously.

The next RAB meeting is scheduled for May 8, 2001 at 7:00 p.m.

Some agenda items set for the next meeting are:

- GIS database
- Site history investigation/review

9:00 p.m. Meeting adjourned

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