

## MEMORANDUM

**TO:** Mark Bohne, PBOW RAB Co-chair and RAB members  
**FROM:** Julie Weatherington-Rice, Ph.D., RAB TAPP Coordinator  
**RE:** Proposed Plan for Soils and Sediments TNT Area C, Former Plum Brook Ordnance Works Sandusky, Ohio; – Shaw Environmental, Inc.  
**DATE:** March 6, 2009

Per our current contractual arrangement with US ACE which require both a technical memorandum for each report and an educational explanation to the RAB, this memorandum constitutes the educational review of the Shaw Environmental, Inc. January 2009 Draft Proposed Plan for Soils and Sediments TNT Area C, Former Plum Brook Ordnance Works Sandusky, Ohio. **Since most of this document is boilerplate information, there is NO technical memo for this report.** Please forward these comments to the other RAB members in time fore the Public Meeting on TNT Area C next week.

This review is completed in several sections. There are a set of general comments and a set of specific comments. This should be of use in preparing members of the RAB for the Public Hearing on TNT Area C scheduled for Thursday, March 12<sup>th</sup>.

**Proposed Plan for Soils and sediments TNT Area C, Former Plum Brook Ordnance Works Sandusky, Ohio, Former Plum Brook Ordnance Works Sandusky, Ohio – Shaw Environmental, Inc.**

### General Comments

1. This document lists a summary of the potential risks starting on page 9. These are broken into Human Health Risks and Ecological Risks. There are 13 chemicals of concern in the soils identified as human health risks. There are three chemicals of concern in the sediment. In addition, there are soil concerns for terrestrial receptors and possible surface water concerns. There are also aquatic macroreceptors (raccoons and mallard ducks) at risk.
2. Shaw has determined that the soils and sediment at TNT Area C should be remediated. They have developed five alternatives, one of which is the required “do nothing” alternative. Each alternative is explained and the associated costs for each alternative are projected. The least expensive alternative developed that is also expected to be protective of human health and the environment is Alternative 5.

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3. Alternative 5 includes “Excavation, Alkaline Hydrolysis, Chemical Stabilization, Windrow Composting, and Off-Site disposal/On-site placement”. This alternative is expected to cost a minimum of \$2.44 Million dollars. If the areas of contamination are found to be larger than expected during excavation that cost may increase.
4. This set of alternative treatments has been successfully undertaken at other locations at the site for many of the same and similar chemicals of concern so prognosis of a positive outcome is high.

### **Specific Comments**

1. The three-column format was difficult to read.
2. There were several locations where the date of the public hearing was to be entered that still had 2008 as the year for the event. Those need to be corrected before this is made into a final document. I’m sure that they have been caught by now.

This concludes my educational comments on the Draft “Proposed Plan for Soils and Sediments TNT Area C, Former Plum Brook Ordnance Works Sandusky, Ohio, Former Plum Brook Ordnance Works Sandusky” document. If you have any questions and/or need further clarification on any point discussed in this memorandum, please feel free to contact me.