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1B-0015

NTC GREAT LAKES MEETING MINUTES
June 5, 2002
Charleston, South Carolina

Attendees:	<u>TtNUS</u> Robert Davis Aaron Bernhardt	<u>Navy SouthDiv</u> Anthony Robinson Bill Hill Steve Beverly	<u>NTC Great Lakes</u> Mark Schultz Dan Fleming (by conference call)	<u>IEPA</u> Brian Conrath Les Morrow (by conference call)
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1.0 Meeting and Introduction

- 1.1 Greeting and check in
- 1.2 Agenda is attached – the agenda was revised to move the discussion of the Navy Policy on Sediment Site Investigations to after lunch and move up the comments on the Site 17 RI/RA.
- 1.3 Presentation materials (slides, tables, figures) were provided in hard copy form.

2.0 Site 17 Project Overview and Field Activities

- 2.1 **Overview/Site Characteristics** were discussed to provide an overview of the project. Based on the results, Pettibone Creek was divided into the North Branch (from the culvert to the Boat Basin) and the South Branch (from the golf course to the confluence with the North Branch). The Boat Basin was evaluated as a separate area of interest because of differences in contaminant transport and deposition.
- 2.2 **Site History** was discussed to provide the reasons for the analysis conducted based on the QAPP. The historical sampling events have been conducted since the 1970s; since that time 12 sampling events have been completed, some by the EPA Region 5, IEPA, and the Navy.
- 2.3 **Public Access** – The question of public access to the base and harbor area was asked. NTC Great Lakes allows the public to access this area. The inner and outer harbor areas are used for mooring of boats that are not owned by Navy personnel.

3.0 Site 17 Analysis

- 3.1 **Field Work** – Reviewed the number of sediment and surface water samples collected in Pettibone Creek and the Boat Basin and where they were collected. Also reviewed what the samples were analyzed for. A geologic cross section of the sediments in the Boat Basin was provided – the bottom of the Boat Basin was identified by native/natural soil – no concrete bottom was found.
- 3.2 **Sieve Analysis** – The Pettibone Creek surface and depth sediments were classified as silty sands or sands with less than 15% passing the #200 sieve. The Boat Basin sediments at depth were classified as a clayey sand with approximately 50% passing the #200 sieve. The #200 sieve is slightly larger than the #230 sieve mentioned in the IEPA sediment sampling procedure.
- 3.3 **Nature and Extent Chemicals of Potential Concern** –
 - 3.3.1 **Surface water** – Several VOCs and inorganics exceed criteria
 - 3.3.2 **Sediment** – Polynuclear aromatic hydrocarbons (PAHs) exceeded human health and ecological criteria with concentrations greater in the surface sediments but within the range of anthropogenic background. IEPA does not recognize anthropogenic background – use TACO criteria. Pesticide concentrations reflect widespread/historic use with concentrations greater at-depth. PCBs concentrations at-depth and in the Boat Basin exceed human health and ecological criteria. Several inorganics had concentrations an order of magnitude greater than TACO but less than the upstream/off-site samples. The at-depth concentrations were greater than the surface sample concentrations. Concerns with the VOC analysis and its holding time were discussed
 - 3.3.3 **South Branch Pettibone Creek** – Concentrations were less than the Boat Basin and the North Branch. The concentrations of the inorganics were similar to the

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TACO criteria and there is no industrial source upstream of NTC Great Lakes. South Branch could be used as background.

- 3.4 Human Health Risk Assessment** – The HHRA identified fish ingestion as a risk, however there are several sources of uncertainty in the calculation of this risk. The risk is associated with PCBs and pesticides in the sediment. The HHRA for the sediment and surface water through exposure (ingestion/dermal contact) was less than 10⁻⁶ or within the risk management range (10⁻⁶ to 10⁻⁴). The risks that were in the risk management range were in the order of 10⁻⁶ and exposure to benzo(a)pyrene caused the risk in the risk management range.
- 3.5 Ecological Risk Assessment** – Primary risk drivers are PAHs and inorganics in sediment to benthic invertebrates. PCBs and pesticides in sediment are a bioaccumulative concern more than a direct toxin concern. Surface water is not a concern.

ACTION ITEMS –

- **TtNUS will contact EPA Region 5 to determine the cleanup levels used at the upstream facilities (Fansteel, Vacant Lot).** The EE/CA for Vacant Lot has the clean-up criteria reported, the EE/CA for Fansteel is being reviewed and will be complete around December 2002. TtNUS e-mailed portions of the EE/CA for the Vacant Lot to the attendees. Copies of other reports (Update #2 to Removal Action Levels and Removal of Lead and PCB Contaminated Soil at Vacant Lot) were requested and received from EPA Region 5.
 - **TtNUS will review the data and time of sampling and analysis for the VOCs and will change the text to the RI to indicate the VOC sediment samples were collected and prepared/extracted using USEPA SW-846 Method 5030.** The list of samples and the dates and times were e-mailed to IEPA and the Navy.
 - **IEPA to check with IEPA Voluntary Program and EPA Region 5 on the status of the work at Fansteel**
- 4.0 IEPA Comments** – IEPA discussed several of the comments that they had from the initial review of the draft Site 17 RI/RA report. Official comments will be provided in a letter in a few weeks. General concerns/comments included VOC analysis of the sediments and time to extraction. In Section 6 and the document as a whole IEPA would like the risks summarized only, do not indicate where contamination is from (such as off-site contamination) as this is a risk management decision. The location of where the contamination is from can be indicated in the conclusions but should also take into account past and present Navy operations (overall base-wide pesticide application (?), stormwater runoff and discharge structures, location of PCB spills, groundwater plumes at the base, etc.). NTC Great Lakes knows that there were several foundaries in the area in the World War II era as well as lots of coal yards/ash piles. It was noted during the meeting that the 3 major facilities (Vacant Lot, Fansteel, and NCRS) have had investigations and remedial actions conducted. There are several other facilities upgradient of NTC Great Lakes (Die Cast, Industrial Park, etc.) that need to be looked at.
- ACTION ITEM –**
- **NTC Great Lakes to obtain a county watershed map for Pettibone Creek.**
 - **NTC Great Lakes, SouthDiv, and TtNUS to identify potential sites and spills (past and present) that could contribute to the stormwater system.**

5.0 Navy Sediment Policy

The SouthDiv attorney provided a copy of the memorandum for the Navy policy on Ecological Risk Assessments (<http://enviro.nfesc.navy.mil/>) and discussed this as well as the Natural Resource Injury Policy. The natural resource trustees as well as the other PRPs need to be identified. The potential to obtain funds through affirmative claims or the trustees needs to be reviewed. The Navy will have to discuss this project with the CNO to have the project continue on. A basic fish tissue study is possible because of the HHRA. Exit points for the project also need to be identified. The Site 17 RI/RA could be condensed to prepare a summary document

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and the Watershed Document that is needed based on the Navy Sediment Policy. As far as the Pettibone Creek area, the R.Lavin facility has ceased operation. Groundwater migration from this site has been questioned.

ACTION ITEM –

- **The Navy and IEPA need to identify the natural resource trustees (such as NOAA, Fish and Wildlife, etc.). Also decide who should be the lead to bring the information to the trustees.**
- **The Navy and IEPA need to identify the other PRPs for affirmative action claims.**
- **The Navy will get Harold McGill on board.**
- **IEPA to contact ILDNR for fish tissue advisory sampling protocol and existing results.**
- **TtNUS to provide additional copies of the draft Site 17 RI/RA to the Navy for distribution to the CNO and other trustees.** Eight copies will be made with 4 copies were provided to the Navy and another 4 are being held by TtNUS for distribution as needed.

6.0 General Understanding

Fish sampling to be conducted to remove the uncertainty in HHRA for fish ingestion and possibly clarify some ecological issues. These results to be put into final RI/RA report and it is a point to stop at until the CNO reviews and provides direction for future work. During the CNO review – continue to ID and bring in trustees and other PRPs.

7.0 Next Meeting – Next meeting possibly in late July by conference call. Action items should be addressed by mid-July.



GREAT LAKES NTC MEETING AGENDA



Attendees: Bob Davis, Aaron Bernhardt – TtNUS
 Anthony Robinson, Bill Hill – Navy, SouthDiv Charleston
 Attorney, Other Personnel – Navy, SouthDiv Charleston – Navy Sediment Policy
 Mark Schultz – Navy, EFA West, NTC Great Lakes
 Brian Conrath, Les Morrow - IEPA

Dress: Casual
 Location: SouthDiv Offices, Charleston, SC

Wednesday, June 5, 2002

TIME	TOPIC	OBJECTIVE	LEAD
0830-0900	Check-in	Check-in	
0900-0930	Project Overview and Field Activities – Site 17	Bring everyone up to speed on status/objectives, field activities conducted, and HHRA and ERA results	TtNUS
0930-1000	Navy Policy on Sediment Site Investigation	Present information on the policy and how it affect NTC Great Lakes, Site 17	Navy SouthDIV
1015-1130	Navy Policy on Sediment Site Investigation	Present information on the policy and how it affect NTC Great Lakes, Site 17 and Q&As	Navy SouthDIV
1130-1200	SouthDiv Navy Comments	Present comments from review of Site 17 RI/RA	Navy SouthDIV
1200-1230	Lunch		
1330-1400	IEPA Comments	Present comments from review of Site 17 RI/RA	IEPA
1400-1430	NTC Great Lakes Comments	Present comments from review of Site 17 RI/RA	NTC Great Lakes
1430-1445	Break		
1445-1530	Wrap Up	Questions	TtNUS