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NTC GREAT LAKES MEETING MINUTES
March 13 AND 14, 2001
GREAT LAKES, IL

Attendees:	<u>TtNUS</u> Robert Davis Aaron Bernhardt	<u>Navy SouthDiv</u> Anthony Robinson Chris Bartku Matt Slack	<u>IEPA</u> Chris Hill Les Morrow Brian Conrath
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1.0 Meeting and Introduction

- 1.1 Greeting and check in
- 1.2 Agenda is attached

2.0 Site Visits

- 2.1 Site 17 – Pettibone Creek and the Boat Basin
- 2.2 Site 7 – Former RTC Silk Screen Shop in Building 1212 and stormwater outfall
- 2.3 Off-site – Industrial area upstream of NTC Great Lakes

3.0 Site 7

3.1 Review of History and Field Sampling Plan

- Previous sampling event for the RI Verification report showed detections less than the TACO criteria.
- Parts of a Technical Memorandum report (by Brown & Root Environmental) were provided to TtNUS that included another soil sample in the stained area at Site 7.
- Samples will be collected from 0 to 1 foot and a composite from 1 to 10 feet except for VOCs (Encore samplers will be used at discrete locations based on staining, elevated PID readings, or at random locations if there is no staining or elevated PID readings).
- Runoff from the site would not have migrated far (only a few feet) because of vegetation and the ground slopes up past the fence line.
- Stormwater runoff from the road and other areas of NTC discharge to the stormwater system that is associated with the drop inlets near Site 7. The outfall where the stormwater discharges is highly eroded.

Consensus:

- Add another well to the south (off the corner of Bldg 1212) and downgradient.
- No sampling of the stormwater outfall area or drop inlet surface soil
- Collect additional soil samples for delineation
- Analyze the soil and groundwater samples for VOCs, SVOCs, and inorganics.

Action Item: Chris will determine if sample tags need to be used.

3.2 Review of Human Health and Ecological Risk Assessment Plans

- COPCs selected from most conservative TACO or Region 9 PRGs.
- A discussion on why drinking water is not a pathway and why the essential nutrients will not be retained as COPC needs to be presented in the QAPP.
- Exposure media – soil. No soil inhalation pathway. If drinking water is not a pathway do not need to consider soil to groundwater screening criteria – present qualitative analysis.
- Exposure to lead based on pregnant women.
- Human Health Risk Assessment will include dermal contact pathway.
- Risks greater than 10⁻⁶ need to be discussed.
- Contact IEPA for an internal screening value if a chemical is detected and there is no screening value in the QAPP.
- If a chemical is not detected in the samples, but the detection limit is above the screening level, the chemical will not be retained as a COPC. However, it will be qualitatively discussed in the text.

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- The only pathway for Ecological RA is groundwater migration to surface water. Compare groundwater concentrations to surface water quality criteria as long as there is a discussion of a lack of habitat in the text. If groundwater concentrations exceed surface water criteria, use R26 groundwater model in TACO to estimate groundwater concentrations near the discharge point.

Consensus: See above bullets

Action Item:

- Les to send IEPA flow chart for calculating UCL.
- Aaron to send Navy policies to Les

4.0 Site 17

4.1 Review of History and Field Sampling Plan

- More than 10 previous investigations/studies on Pettibone Creek and the Boat Basin starting in 1980
- Historical data is being put into EGIS – initial results in the form of tables showing the frequency of detections, minimums, maximums, averages for the detected chemicals was provided. The database is still being cleaned up and 2 reports are being obtained from IEPA to add to the database.
- The database tables show the previous studies analyzed surface water and sediment for VOCs, SVOCs, Pesticides, PCBs, and inorganics. The database tables include the screening criteria. After the database is cleaned up, TtNUS will compare the maximum results to screening criteria and decide what the analysis should be. PAHs and inorganics are the chemicals detected most. There are some VOCs, phthalates, pesticides, and PCBs to consider.
- 30 to 40 sample locations in Pettibone Creek – most samples are surface sediments with samples at depth in the sediment deposition area. Also sample a few straight runs.
- Analysis will be based on the database information from past investigations. 10% of the samples will be analyzed for VOCs and SVOCs. All samples will be analyzed for PAHs, pesticides, PCBs, and inorganics.
- 8 soil borings in the Boat Basin. Sample depths at 0 to 4 cm, 1 to 3 feet, 3 to 6 feet, and 6 to 10 feet.
- Analysis will be based on the database information from past investigations. 10% of the samples will be analyzed for VOCs, SVOCs, pesticides, PCBs, and inorganics. A few samples in the Boat Basin will also be analyzed for parameters required for dredging.
- Sediment samples will not be sieved since receptors (both human and ecological) are exposed to the entire sediment sample, not just the <230 sieved material. Analysis of the <230 sieved material will bias the risk assessment process.
- Obtaining background samples was being considered from the headwaters of the South Branch of Pettibone Creek. IEPA indicated that 7 to 10 samples would be required for statistical purposes. TtNUS will review the need for background samples

Consensus Item: See above bullet items.

- Most sediment samples in Pettibone Creek will be collected from a depth 0 to 4 centimeters with samples at depth in the sediment deposition areas. Also sample a few straight runs of the creek.

Action Item:

- Chris to get reports (NCRS Site Inspection report and ERM report).
- Les to check into sieving in the IEPA SOPs.
- TtNUS (Bob and Aaron) will review the need for background sampling

4.2 Review of Human Health and Ecological Risk Assessment Plans

- Assessment will be similar to Site 7 (see above).

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- Since Pettibone Creek and the Boat Basin are part of the Great Lakes watershed, IEPA and TtNUS will contact the IEPA and EPA Region 5 personnel involved with this initiative and discuss the project.
- The absence of Pettibone Creek as a drinking water supply needs to be discussed in the text to justify not using sediment screening values from IEPA
- The wading scenario should be included in the HHRA.
- BSAFs will be used to calculate fish tissue concentrations from sediment concentrations.
- The use of the lead model for sediment will be explained better in the work plans.
- The rationale for using soil criteria to screen sediment needs to be clear in the work plan.
- The existing biological survey data that is available will be presented in the text. TtNUS received one copy of this report from the Navy at the meeting.
- Use IEPA sediment screening numbers for organics first.
- IEPA will look into use of background data based on the sieving requirement.
- To calculate sediment screening numbers for organics (no IEPA number), use the statewide TOC to avoid jumping into Tier II and use the Koc values in TACO in the equilibrium partitioning equation. Compare these calculated numbers to literature values and use the most conservative in the screening.

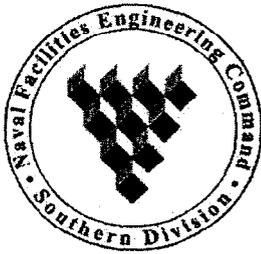
Consensus Item: See above bulleted items.

- For ecological risks, use analysis from the 0-4 cm samples. Deeper samples will be collected to evaluate the historical impacts but will not be included in the risk assessment.

Action Item:

- Chris will talk with Bob Mosher, IEPA Great Lakes initiative.
- Bob and Aaron will contact Ken Klewin, EPA Region 5 Great Lakes initiative.
- Les will look into using BSAFs for fish tissue concentration calculations and the use of the IEPA background data as it relates to the sieving requirement.
- Aaron will look into using the ARCs screening levels.

Parking Lot: Did not do



NTC GREAT LAKES MEETING AGENDA



Attendees: Bob Davis, Aaron Bernhardt – TtNUS
 Anthony Robinson – Navy, SouthDiv Charleston
 Chris Bartku, Matt Slack – Navy, SouthDiv NTC Great Lakes
 Chris Hill, Les Morrow, Brian Conrath – IEPA

Dress: Casual

Location: Great Lakes NTC, First Floor Conference Room in Building 1 (tentative)

DAY 1 Tuesday, March 13, 2001

TIME	TOPIC	OBJECTIVE	LEAD
1100-1200	Check-in and Site 7 Visit	Check-in and Visit Site 7	
1300-1445	Site 17 Visit	Site 17 Visit – Pettibone Creek and the Boat Basin	
1500-1700	Site 7	History, DQOs, and QAPP	

Day 2 Wednesday, March 14, 2001

TIME	TOPIC	OBJECTIVE	LEAD
0800-0900	Site 7	Questions	
0900-0945	Site 17	History	
0945-1000	Break		
1000-1200	Site 17	DQOs and QAPP	
1300-1400	Site 17	Questions	

Parking Lot Items – Other IR sites at NTC Great Lakes