

NAVAL STATION GREAT LAKES MEETING MINUTES
September 28, 2005
Naval Station Great Lakes, Illinois



Attendees: TtNUS Navy SouthDiv NAVSTA Great Lakes Illinois EPA
Robert Davis Anthony Robinson Bill Busko Brian Conrath
Chris Pike Dan Waddill Mark Schultz

1.0 Meeting and Introduction

- 1.1 Greeting and check in
- 1.2 Presentation materials were provided at the meeting.

2.0 Site 17 Project Status – TtNUS has submitted final Feasibility Study but the signed cover page to complete this submittal is being held up due to issues involving the Inner and Outer Harbor.

Based on the many discussions that have occurred the Navy is in the process of preparing a letter to EPA Region 5. The Navy has been the lead agency for the work related to Pettibone Creek and the Boat Basin. The Navy wants EPA Region 5 to be the lead agency for work related to the Inner Harbor and Outer Harbor – they believe that the submerged land is owned by the state. When the Navy's request for EPA Region 5 to become the lead agency is accepted, the signed title page will be submitted and the Proposed Plan and Record of Decision for Pettibone Creek and Boat Basin will be completed.

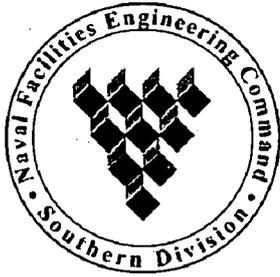
TtNUS and the Navy have been assisting the Department of Justice by providing the necessary information for the bankruptcy court claim/cost recovery lawsuit against Lavin and Fansteel (two federal bankruptcy courts).

This project also includes an update of the Administrative Record. This will be completed when the Proposed Plan and Record of Decision are completed. The Naval Station Great Lakes copy was borrowed and gone through by the attorneys and needs to be checked. The Navy may provide .pdf files (searchable) for other sites (such as Site 1, 9, and/or 18/20) to be included in the Administrative Record.

ACTION/DECISION ITEM – TtNUS to provide Naval Station Great Lakes with date of latest Administrative Record. TtNUS will submit the signed title page and begin preparation of the Proposed Plan and Record of Decision after EPA Region 5 and the Navy agree on who will be the lead agency for the Inner and Outer Harbor activities.

3.0 Community Involvement Plan Overview – The draft Community Involvement Plan has been submitted to the Navy for review prior to review by Illinois Environmental Protection Agency (Illinois EPA). The draft for Illinois EPA review will be prepared upon receiving comments from the Navy. Naval Station Great Lakes would like to include a Technical Review Committee and an annual meeting with local officials in the Community Involvement Plan. These were activities that they had done in the past but they have not had a committee or meeting with local officials for a while.

ACTION/DECISION ITEM – Waiting on Navy comments on the draft version prior to submittal for review and comment by Illinois EPA.



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- 4.0 Site 22 Feasibility Study** – Draft Feasibility Study was submitted to the Navy and Illinois EPA for review and comment. Comments were received and response to comments were prepared and submitted on September 20, 2005. The draft Feasibility Study includes 4 alternatives, but none of the alternatives include Land Use Controls (LUCs), similar to the LUCs for Buildings 415 and 912 which were/are dry cleaners. The Navy will add an Alternative 5 to the Feasibility Study that will include LUCs.

Illinois EPA is preparing additional comments based on the response to comments. The additional comments discussed are:

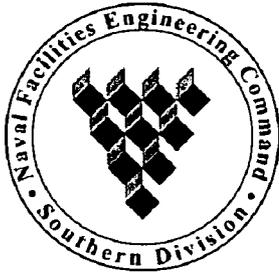
- Soil and Groundwater removed from the site is considered a listed waste.
- TACO does not apply.
- Need to meet RCRA and CERCLA standards – leaving concentrations similar to Building 415 is not reasonable. Risk calculations over an exposure unit using average concentration after treatment may be reasonable.
- The barracks (existing and proposed future) may be a concern.
- LUCs for groundwater are required and need to be added to the 4 alternatives in the Feasibility Study. No criteria for groundwater are needed.

Discussion on what the PCE Preliminary Remedial Goal (PRG) for the site occurred. The discussion included:

- Soil contamination that remains at Buildings 415 (480 mg/kg),
- Soil saturation limit (529 mg/kg based on organic carbon of 1.6%) that was established as the remedial goal for a dry cleaner in Chicago,
- IL TACO soil saturation limit (240 mg/kg based on a default organic carbon of 0.6% - note that organic carbon at this site is approx 0.678%), and
- IL TACO Industrial/Commercial criteria (20 mg/kg).
- Illinois EPA would consider a PRG of approximately 30 mg/kg for PCE. This PRG would be realistic based on the PCE concentrations currently present on site. With this as a PRG, LUCs would be required.

ACTION/DECISION ITEM – Illinois EPA will provide additional comments based on the response to comments. TtNUS will prepare a revised draft Feasibility Study that incorporates the comments and Alternative 5. The revised draft will be submitted electronically in track change mode for review.

- 5.0 Site 22 Treatability Study** – The Navy is preparing to conduct an in-situ thermal treatability study using Electrical Resistive Heating (ERH) in the area of the hot spot (near the grease catch basin) at the site. This work may include some minor excavation of shallow soil at two or three areas, but the additional Illinois EPA comment regarding listed waste needs to be considered (due to the associated disposal costs). The areas that would need excavation would be sampled during the baseline investigation. Naval Station Great Lakes indicated that 6 inches to 1 foot of soil were removed during the demolition of Building 105 but no confirmation samples were collected. Everyone concurred that the contaminated surface soil may have been removed, but baseline sampling would be used to provide PCE concentration in these areas for risk assessment purposes (confirmation sample).



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The treatability study is concentrating on clean up of the soil contamination however the perched groundwater will also be remediated during this study. Illinois EPA suggested expanding the treatment area of the treatability study to include the highest soil concentration at the site in the southwest corner of Building 105 instead of excavation. Confirmation samples will be collected but Illinois EPA questioned potential rebound. Review of case studies has not indicated rebound as being an issue. There are 3 projects in the area (Waukegan, Skokie, and Chicago Dry Cleaners) that can be reviewed to see if rebound occurs on sites where ERH is utilized.

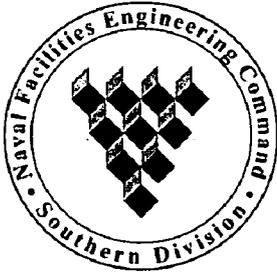
After the treatability study has been completed and its associated report has been submitted, the Proposed Plan and Record of Decision for the site will be prepared. These documents will include information about the treatability study (identify the treatability study as an interim remedial action if needed).

- 6.0 Site 22 Treatability Study Prebid Meeting** – ERH contractors (CES and TRS) attended the prebid meeting along with Naval Station Great Lakes Public Works personnel (see attached attendance sheet). The scope of the treatability study was discussed – treat the hot spot area (~1400 SF) using ERH. This technology requires electrical, water, sewer, and telephone utilities. The Naval Station Great Lakes Public Works personnel provided information (see attached maps/figure) to assist TtNUS and the ERH contractor in conducting the remedial action. Water can be provided for a lump sum if only a few thousand gallons are needed. Electrical hook up will be at a transformer located near the post office.

According to the ERH contractors, the operation of the ERH system includes condensers and SVE blowers. This equipment has a hum at a noise level of approximately 80 to 85 dB. The nearby fire station has facilities for the firemen to sleep and a barracks is located on the other side of Porter Avenue. Some noise control requirements will be needed at the site. The Naval Station Great Lakes Environmental Department personnel suggest placement of a fence at a minimum around the noise equipment to minimize noise levels.

The prebid meeting concluded with a trip to Site 22 and walking on the site. Questions were asked about closing off part of the parking lot for the ERH equipment. TRS indicated that they have a procedure for sampling hot soil and groundwater (also attached) and CES suggested remediating the 2 or 3 shallow contaminated soil areas by placing electrodes in a triangle shape as well as remediation of the drill cuttings from installation of the electrodes that are placed in a roll off box with electrodes.

ACTION/DECISION ITEM – Naval Station Great Lakes will meter the electricity separately but will pay for the electrical usage and will provide TtNUS with a contact for the telephone utility. TtNUS will provide a description of the process that generates wastewater to the Public Works personnel. The Public Works personnel will discuss the sewer needs with North Shore Sanitary District. Naval Station Great Lakes Environmental Department personnel will provide information related to noise levels and control requirements.



GREAT LAKES NTC MEETING AGENDA



Attendees: Bob Davis – TtNUS
Anthony Robinson – Navy, NAVFAC EFD South, Charleston
Dan Waddill – Navy, NAVFAC EFD South, Charleston
Bill Busko, Blayne Kirsch, Mark Schultz – Navy, Naval Station Great Lakes
Brian Conrath – Illinois EPA

Dress: Casual
Location: Bldg 1A, Naval Station Great Lakes

Wednesday, September 28, 2005

TIME	TOPIC	OBJECTIVE	LEAD
0830-0845	Check-in	Check-in	
0845-1015	Site 17	Status of FS/PP/ROD & Bankruptcy Claim	TtNUS & Navy
1015-1030	Break		
1030-1200	Site 22 – Feasibility Study	Status and discuss comments and response to comments from review	TtNUS
1200-1300	Lunch		
1300-1400	Site 22 Treatability Study	Project Overview and Field Activities, Discuss objectives and remedial goals	TtNUS & Navy
1400-1500	Site 22 Treatability Study	Pre-Bid meeting with ERH contractors in conference room	TtNUS
1500-1600	Site 22 Treatability Study	Site visit with Naval Station Great Lakes utility representatives	TtNUS & Navy
1600-1630	Wrap Up	Questions	TtNUS

PROJECT STATUS
Site 17 Pettibone Creek and Boat Basin
Naval Station Great Lakes

September 2005

- Schedule/Status
 1. Remedial Investigation/Remedial Action Report
 - Final Submitted and Accepted by Illinois EPA – November 2003
 2. Lake Michigan Fish Advisory/Fish Study (Risk Assessment/Fish Tissue Sampling) – Part of Remedial Investigation/Remedial Action Report
 - Final Submitted and Accepted by Illinois EPA – November 2003
 3. Watershed Contamination Source Document – prepared in accordance with the February 2002 Navy Sediment policy.
 - Final Submitted – September 2003
 4. Feasibility Study
 - 4 Alternatives
 - No Action
 - Monitored Natural Recovery with Institutional Controls
 - Capping Boat Basin and Excavation and Disposal of Pettibone Creek Sediment
 - Dredging/Excavation and Disposal of Sediment
 - Final Report dated August 2005 – Signature page needs to be completed
 5. Proposed Plan and Record of Decision to be prepared after completion of the Feasibility Study. The information from the treatability study will be summarized in the Proposed Plan and Record of Decision as an interim remedial action.
 6. Administrative Record Update – Update will occur when the Proposed Plan and Record of Decision are completed. The Update will include Site 22 documents that are completed at that time.
 7. Bankruptcy Claim – court date September 22, 2005.

PROJECT STATUS
Site 22 Building 105 – Old Dry Cleaning Facility
Naval Station Great Lakes

September 2005

- **Schedule/Status**

1. Community Involvement Plan for Naval Station Great Lakes – this is being prepared as it relates to the Navy's IR/CERCLA program and in accordance with the EPA guidance document.
 - Draft submitted to the Navy in August 2005 for review.
2. Remedial Investigation/Risk Assessment Report
 - Final Submitted and Accepted by Illinois EPA – August 2004
3. Feasibility Study
 - 4 Alternatives
 - No Action
 - In-situ Chemical Oxidation and Monitoring
 - In-situ ERH and Monitoring
 - Excavation, Off Base Treatment, and/or Disposal, and Monitoring
 - Draft Feasibility Study Report – submitted June 2005.
 - Comments from the Navy and Illinois EPA provided in July and August 2005.
 - Response to Comments provided in September 2005. Want to add an alternative with Land Use Controls, similar to Building 415 and 912.
4. Proposed Plan and Record of Decision to be prepared after completion of the Feasibility Study and the Treatability Study (see below).
5. Treatability Study – use ERH in area of hot spot.
 - Remedial goals – need to identify.
 - Pre-bid meeting with ERH contractors later today
 - Work Plan and HASP and procurement of subcontractors (driller, lab, ERH, etc.).
 - Baseline Sampling
 - Groundwater samples from 4 contaminated wells
 - Soil samples in ERH treatment area (may include NTC22MW05S and GL95-105S-13)
 - Soil samples in area that may need excavated (GL95-105S-8 shallow soil [2.5 to 3 ft])
 - Total soil samples for VOC analysis - 21
 - ERH Installation
 - Soil cuttings from electrode and SVE system installation left on the ground surface in treatment area and covered – 2 to 3 wks.
 - Other Equipment – 3 to 4 wks.

PROJECT STATUS
Site 22 Building 105 – Old Dry Cleaning Facility
Naval Station Great Lakes

September 2005

- Startup – 1 wk.
- Operation – 13 wks - relevant monitoring 3 times per wk and Remote Data Communications and Control for manual on-site control or computer-based control and data acquisition with fully remote addressing.

- Post Treatability Study Sampling – will need to determine when this will occur
 - Install new wells to replace damaged wells – groundwater samples
 - Soil Samples in ERH treatment area (includes soil cuttings from ERH installation) VOC analysis - 21
 - Soil Excavation if needed.

- Treatability Study Report