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NSTC GREAT LAKES
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MEETING MINUTES 3 NOVEMBER 2011 NSTC GREAT LAKES IL
11/3/2011
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NAVAL STATION GREAT LAKES MEETING MINUTES

November 3, 2011

Naval Station Great Lakes, Illinois



Backfill sources will be sampled at a rate of 1 sample for every 10,000 cubic yards to verify compliance with off-site backfill material requirements (Illinois EPA comment 6). Additional details will be added to the RAP regarding the wash water and water collected from the dewatering pad (Illinois EPA comments 7 and 8). Provide additional detail and quantities related to the stream bank stabilization features (Illinois EPA comment 18).

ACTION/DECISION ITEM – Tetra Tech to send the calculations for the basin size to the Navy and make revisions to the RAP based on the discussion and the response to Navy and Illinois EPA comments.

No post-removal samples will be collected.

4. Group discussion on the Illinois DNR comments. Add text that describes the method to relocate the fish during the remedial actions (Illinois EPA comment 23). The request to conduct biological surveys (Illinois EPA comment 24) is noted but budget constraints must be taken into account. Another option is to discuss having the biological study performed with/through a local university as a potential graduate student project. There is a difference of opinion on the stream bank stabilization methods (Illinois EPA comment 26) between the Illinois DNR, USACE, and Tetra Tech related to lunkers and rock toe stabilization.

ACTION/DECISION ITEM – Illinois DNR will provide some stream data for Pettibone Creek that is available from the USACE.

Tetra Tech will make revisions to the RAP based on discussions and the responses to Navy and Illinois DNR comments. The USACE will be consulted regarding potential stream bank stabilization methods. Tetra Tech will include rock riffles that will help stabilize the stream bed and decrease downcutting therefore decreasing the destabilization of channel banks and gully slopes. Tetra Tech will also rename the side channel wetland to side channel floodplains to eliminate confusion.

5. The USACE indicated that there may be some non-Navy funds that may be available for the stream restoration/stream bank stabilization. These funds may be available through the Great Lakes Restoration Initiative from USEPA, possible funds from the USACE, and funds from NOAA and USEPA related to bankruptcy awards.

ACTION/DECISION ITEM – The Navy will investigate the potential for alternative funding mechanisms.

6. Site Visit – The Navy, Illinois EPA, Illinois DNR, USACE, and Tetra Tech visually observed via a site walk the stream from the Boat Basin to the culverts at the north end of the base. During the site visit the Chinook were observed at the Boat Basin and in Pettibone Creek, attempting to spawn. Macroinvertebrates were also observed under stream channel rocks in the lower reach of Pettibone Creek. The multiple existing storm sewers that discharge into Pettibone Creek appear to be the main driver for the historical bank erosion impacts. The maintenance activities (placement of rock or concrete slabs, etc.) instituted at the discharge points or downstream of the discharge points are band-aid fixes that have transferred the erosional issues to the next downstream, unprotected area. Removing and managing the piped storm water point source inputs will help alleviate the increased peak flows and increased bank erosion impingements.

ACTION/DECISION ITEM – No action/decision items for this item.

7. Discussions after the site visit included:
 - Pipe the culverts (depending on specific design evaluations) directly to the Boat Basin or Lake Michigan.
 - Pipe or redirect the storm water pipes originating on the base to the Boat Basin



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- Conduct a macroinvertebrate study which could show there is minimal impact from the sediment and the streambed appears to be healthy for the urban environment.
- Allow sediment that is carried onto the base during storm water flows to naturally continue to cap the contaminated sediment in Pettibone Creek.
- Installing a concrete sediment collection basin at the culverts may not be preferred as inhibiting natural sediment deposition may introduce channel degradation/entrenchment downstream.
- A preferred alternative to installing a sediment basin may be to install sediment collection devices in upstream manholes such as hydrodynamic devices and perform routine cleanout of upstream storm sewers.
- Collect sediment in the junction box manholes before entering the base.
- Is the base using BMPs or can BMPs be added to the storm water system to attenuate/minimize/control storm water flow into Pettibone Creek? Also realign existing storm water pipe outfall and install energy dissipation structures at the outfall of the storm water piping currently not protected by such structures.
- The USACE is going to provide examples of neighboring ravine stream restoration activities.

ACTION/DECISION ITEM –The USACE is going to provide examples of stream restoration activities.

ACTION ITEMS BY GROUP

Tetra Tech

Action Item	Completed
Send Pataha, Meacham, and fish photographs and ILDOT Drawing	√
Send calculations for the basin size	√
Make revisions to RAP based on discussions and responses to comments	√
Consult with USACE regarding stream bank stabilization methods	√
Concurrence letter	√

Navy

Action Item	Completed
Other potential funding mechanisms for stream restoration actions	

Illinois DNR

Action Item	Completed
Stream Data	√

USACE

Action Item	Completed
Example Stream Restoration Activities in neighboring ravine streams	√



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