

Former Sewage Treatment Plant Pre-Design Investigation

Restoration Advisory Board Meeting
October 11, 2007

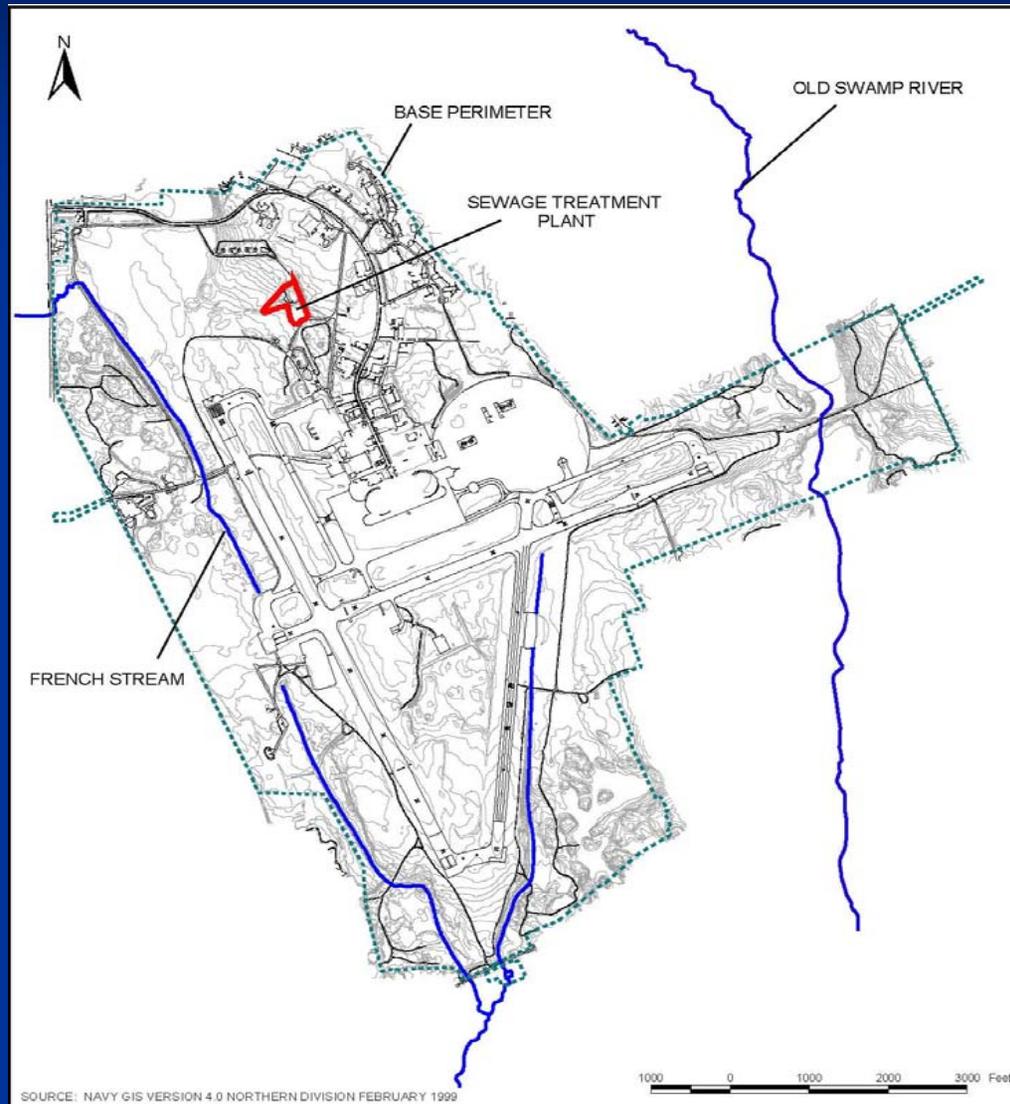
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Tonight's Objective

- Update RAB on progress of STP Site remedial activities.
- Present objectives and components of the pre-design investigation (PDI)
- Review Navy's timeline for remedial activities at the STP Site.

Location of former Sewage Treatment Plant (STP)



CERCLA Milestones at STP Site

- **RI/FS process completed in April 2007.**
- **Proposed Plan presented to the public on September 13, 2007.**
- **Proposed Plan public comment period closed September 28, 2007.**
- **Record of Decision being prepared; expect ROD to be signed in February 2008.**
- **PDI process underway.**

FS Media of Concern

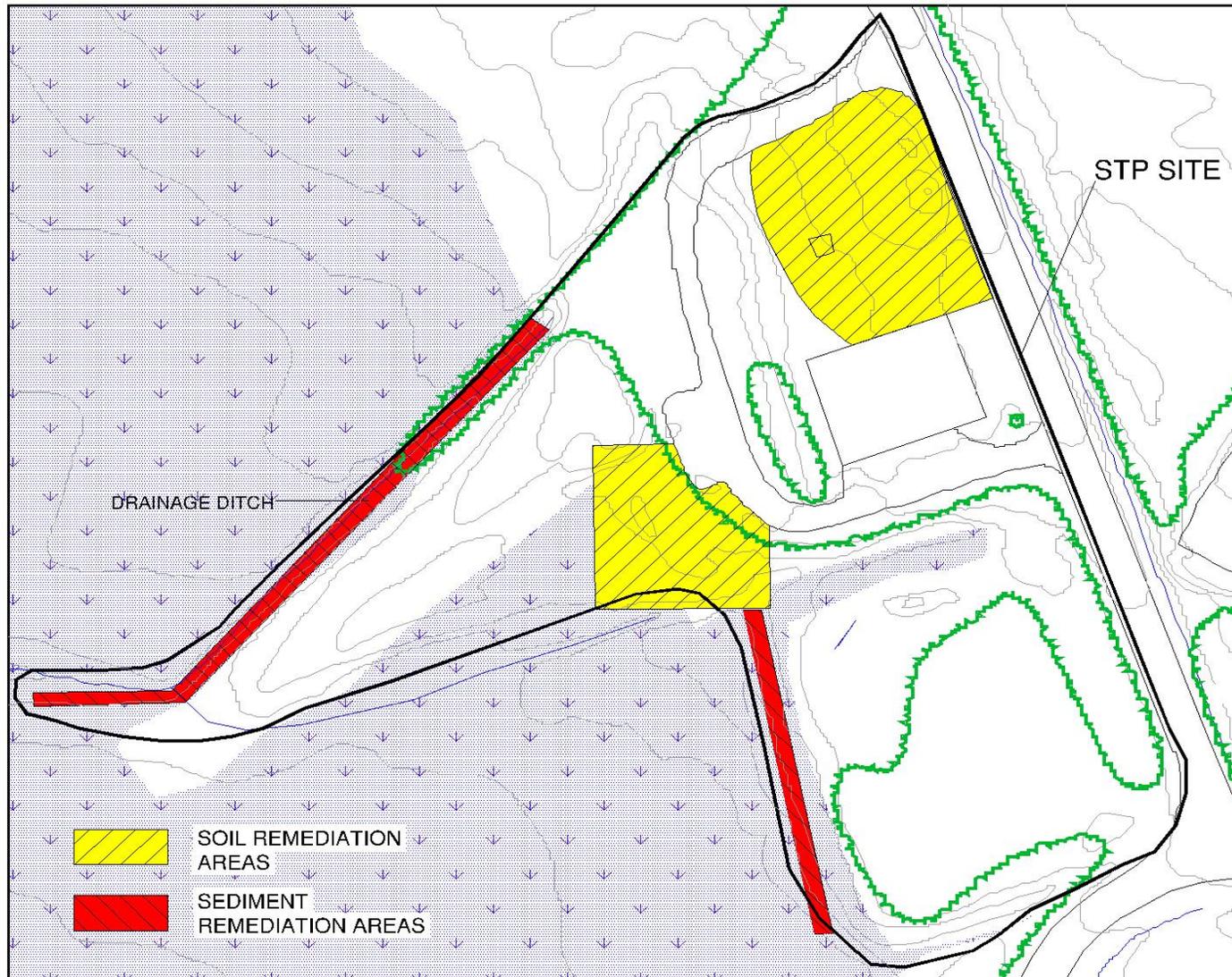
- **Surface soil – Yes**
- **Sediment – Yes**
- **Surface water – No***
 - Single PCB detection suspected to be an isolated, not representative result.
- **Groundwater – No***
 - Single arsenic detection not representative and less than federal & state drinking water standards;
 - Two pesticides detected in one sample within EPA's acceptable risk range.

*** To be confirmed during pre-design investigation and post-remedial groundwater monitoring.**

Components of Preferred Alternative

- Conduct pre-design investigation.
- Excavate soil and sediment with COC concentrations above cleanup criteria.
- Load, transport, and dispose of soil and sediment off-site at a permitted disposal or recycling facility.
- Backfill excavated areas with clean fill.
- Conduct pre- and post-remedial groundwater and sediment monitoring programs to verify that cleanup is complete.

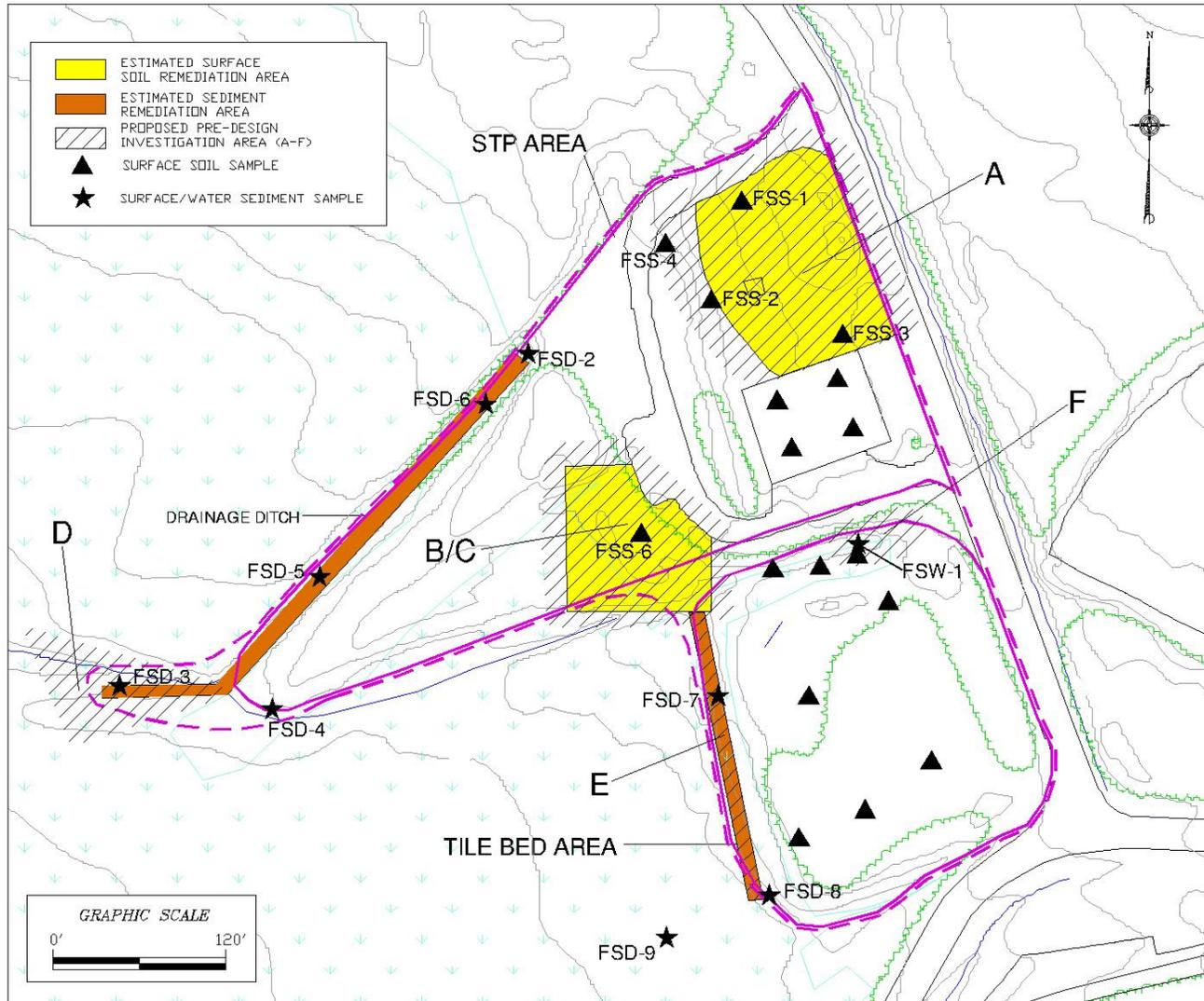
STP Remediation Areas



PDI Objectives

- **Refine delineation of extent of COCs in soil and sediment exceeding cleanup criteria.**
- **Evaluate presence of methyl mercury in sediment to confirm whether a COC.**
- **Evaluate PCB presence in surface water to confirm whether a media of concern.**
- **Perform a comprehensive water level round to evaluate groundwater flow.**

Proposed PDI Areas



Northern Soil Remediation Area



Drainage Ditch Headwall



PDI Activities

- **Mobilization: utility clearance; stake sampling locations**
- **Field Program:**
 - **Collect and analyze soil, sediment, and surface water samples**
 - **Install piezometers at edge of wetland**
 - **Perform comprehensive water level round**
 - **Survey all features**
- **Validate and evaluate data, prepare PDI Report**

PDI Analytical Program

Chemical Groups	Soil	Sediment	Surface Water
Pesticides	X	X	
PAHs	X		
Metals	X	X	
Methyl Mercury		X	
PCBs	X	X	X

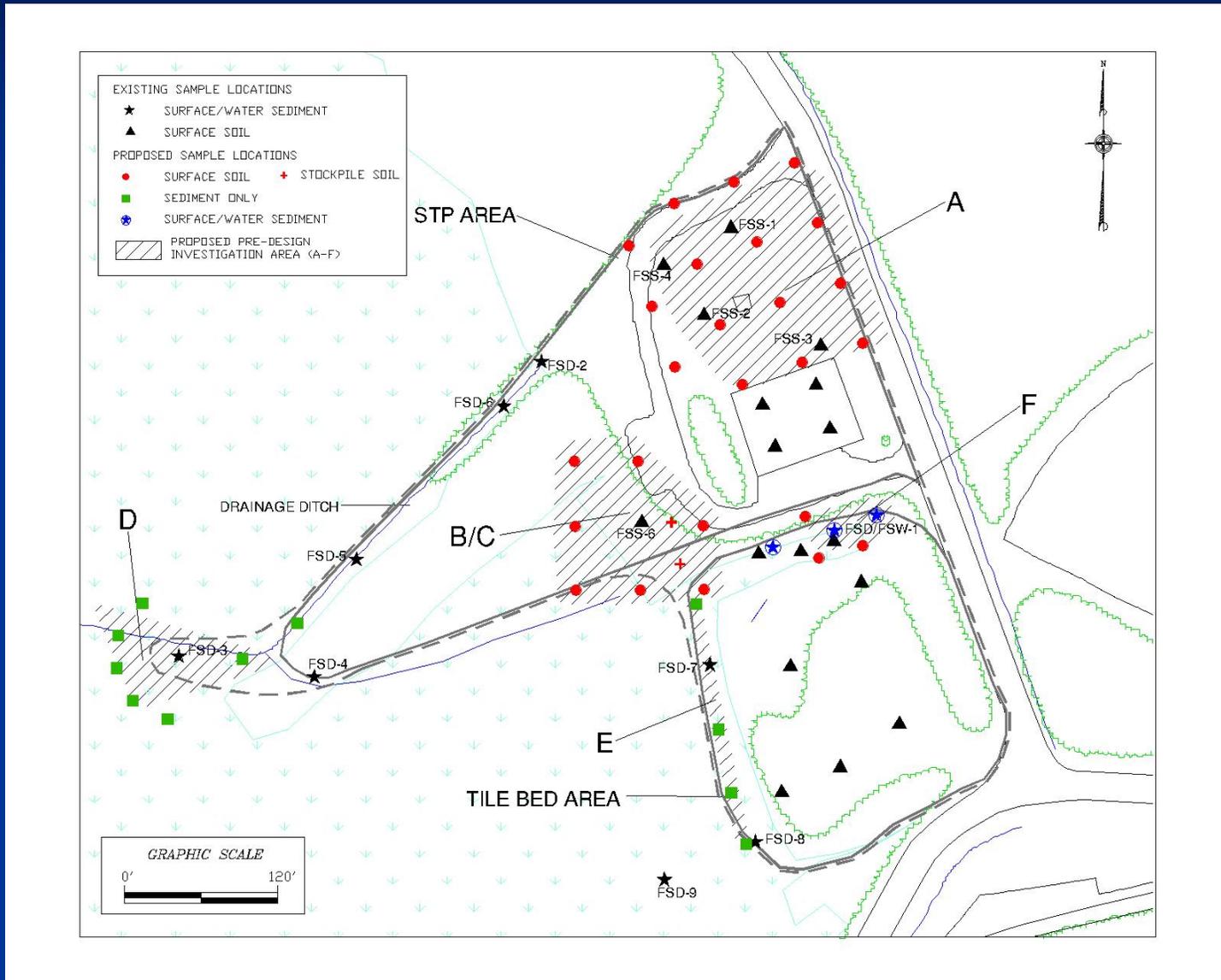
Sampling Procedures

- Surface soil (0 – 1 ft): collect using a trowel or shovel
- Stockpile soil (0 – 3 ft): collect using a shovel or coring device
- Sediment (0 – 6 in. below stream bed): collect using a trowel or coring device.
- Surface water: collect in a glass jar within the water column.

Monitoring Well & Piezometer Examples



Proposed PDI Sample Locations



Remedial Activities Timeline

- Draft PDI Work Plan being revised to address EPA & MADEP comments
- Finalize Work Plan December 2007
- Conduct field work winter 2008 (estimated 2 week duration)
- Prepare PDI Report
- ROD – Expected February 2008
- Prepare remedial design
- Implement remedy summer 2008