Agenda

Restoration Advisory Board Naval Weapons Industrial Reserve Plant Bethpage

November 5, 2008 Bethpage Community Center, Bethpage, NY 7:00 p.m.

> Welcome and Agenda Review Lora Fly, NAVFAC Mid-Atlantic

> > Meeting Minutes
> > All Members

Technical Progress

Budget Update Lora Fly

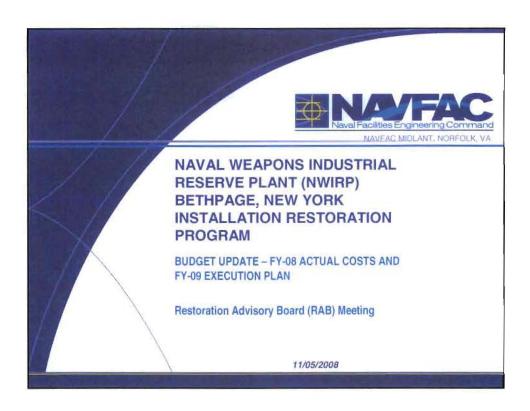
Site 1 Soil Vapor Informational Session and Investigation Rob Sok, Tetra Tech

Offsite Groundwater Investigation – GM-75 Work Plan
David Brayack, Tetra Tech

GM-38 Construction Status Stavros Patselas, Tetra Tech

Closing Remarks
Lora Fly

Presenters will be available after the program for questions.



NWIRP Bethpage FY-08 ACTUAL EXECUTION

PROJECT

FUNDED

REMARKS



TOTAL for FY-08 =	\$3,852,107	
Site 1 – Technology Evaluation for Soils	\$ 20,899	Report complete sent to NYSDEC for comments
Site 1 – Site Preparation for Soil Removal	\$ 302,289	Awarded to Small Business Contractor
Site 1 – Soil Vapor Investigation, On Site and Off Site	\$ 181,230	On-site complete off- site underway
GM-75 – Additional Vertical Profile Borings	\$ 740,407	Awaiting site access
GM-38 – Additional Plant Construction Cost	\$ 2,607,282	Construction underway

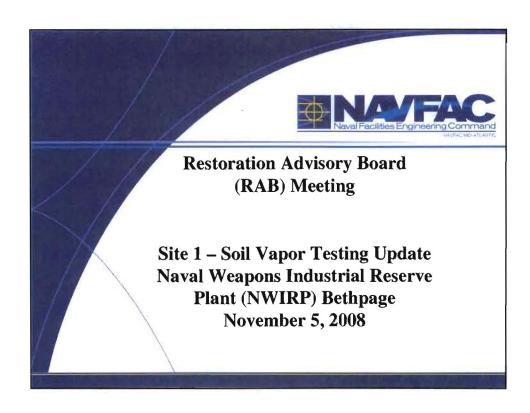
NWIRP Bethpage FY-09 PLANNED EXECUTION PROJECT

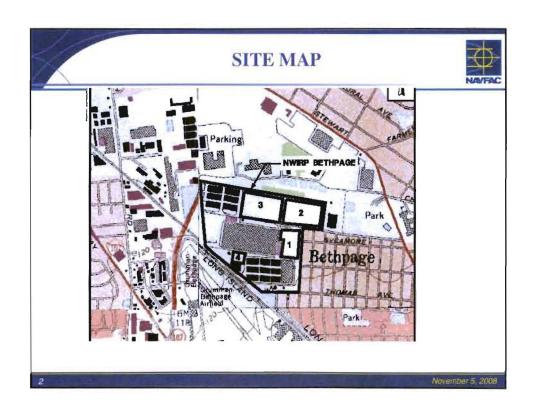


- •Site 1 Construction of Soil Vapor Extraction System
- •GM-38 Addition Construction Cost
- •Evaluation of Treatment System for Off-site Water Supply
- •Community Support
- •Site 1 Pilot Study for In-situ Soil Solidification of PCB-contaminated Soil

NWIRP Bethpage, New York

11/05/200



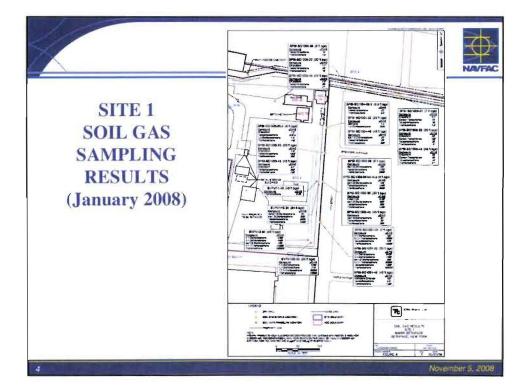


SITE 1 HISTORY - SOIL VAPOR



- October 2006 New York State Department of Health issued soil vapor intrusion guidelines – identifies soil vapor migration and potential intrusion into buildings as a potential concern.
- •January 2008, Navy conducted a soil gas investigation at the eastern fence line of Site 1. Investigation was conducted to determine whether there was a potential for off site migration.
- •Soil gas results indicated elevated levels at the fence line.
- September 2008 Work Plan developed for offsite soil vapor testing.
- •October 2008 soil vapor testing conducted in the adjacent neighborhood along 10th and 11th Streets, and Sycamore/Maple Avenue (10-20-08 to 10-31-08).

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SITE 1 - PHASE II SOIL GAS INVESTIGATION

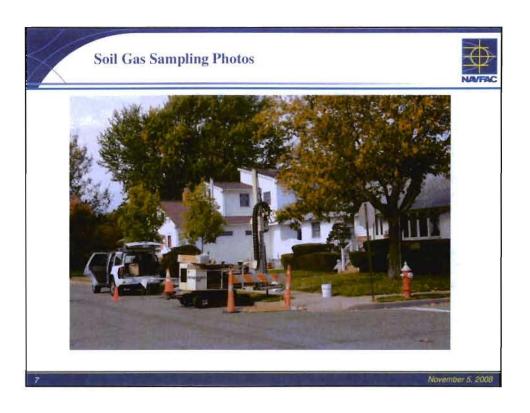


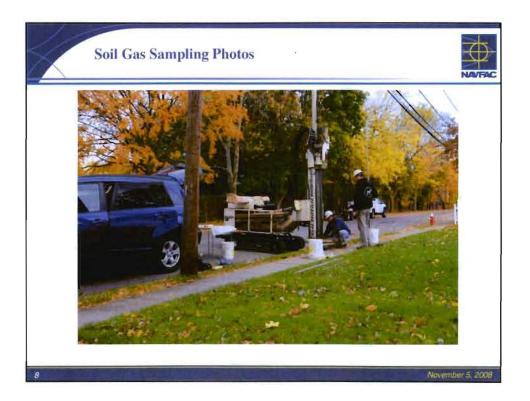
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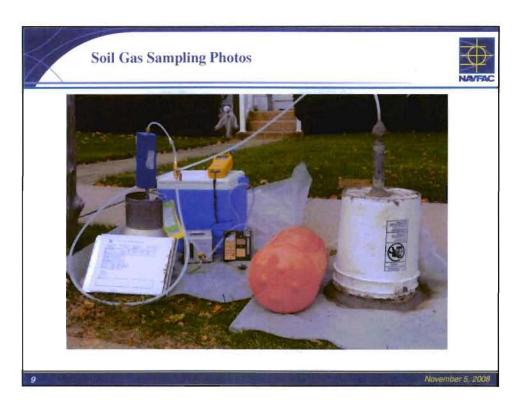


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Soil Gas Sampling Photos NAVEAC November 5, 2008

SCHEDULE



- •Field work was completed on October 31, 2008.
- •Final analytical results from soil gas testing will be available in January 2009.
- •Pilot test for SVE system at Site 1; pilot test anticipated to be conducted in early January 2009.
- Draft Work Plans are currently being developed for indoor air sampling (anticipated to be submitted in November 2008);
 Navy working on property access agreements with homeowners along 11th Street.
- •Indoor air sampling tentatively scheduled to begin in mid-January 2009.

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Groundwater Remediation Project

Naval Weapons Industrial Reserve Plant Bethpage, NY GM-38 Area

Restoration Advisory Board Meeting November 5, 2008





TETRATECH EC, INC.



Treatment System Design

- Mass Removal of Volatile Organic Compounds (VOC's) from groundwater
- (gpm) Process Flow Rate = 1,100 gallons per minute
- Max. Design Flow Rate = 1,375 gpm
- Pumping from two recovery wells (one located on located on west side of Broadway) Route 135 western right of way and other to be





Treatment System Design (cont'd)

- Primary treatment is Air Stripping
- Secondary treatment (polish) is Carbon Media
- Vapors from Air Stripping Treated w/ Carbon Media
- Split the discharge of treated water into one injection well and into a county recharge basin





Well Installations

- Currently installed (Nov 2004 May 2005)
 - −2 Recovery Wells
 - −1 Injection Well
 - −6 Monitoring Wells
- To be installed during construction
 - −1 Recovery Well (RW-3)
 - −6 Monitoring Wells (may change)





Construction Status

- Construction Entrance is located at 100 Broadway between residences at 96 and 106 Broadway
- Dig Safe Notifications and Geophysical Surveys completed.
- Concrete Sumps, Piers, and Grade Beam are complete
- Treatment equipment has been ordered with some on-site.
- Trenching to Recovery and Injection Wells has started.
- Utility and Process Piping entry points into building are complete.
- Electric Load letter submitted to National Grid
- Majority of local and state permits have been submitted





Construction Upcoming

- Set Large Equipment onto foundation with Crane
- Receive Building Material and Begin to Erect Structure (columns and framing)
- Interior Piping and Electric
- Install Fire Alarm and Security Systems
- Install and Test Instrumentation
- Test and Balance All Systems
- Site Restoration





Local Subcontractors

- Mechanical from East Setauket, NY
- Electrical from Medford, NY
- Building GC from Farmingdale, NY
- Erector from Huntington, NY
- QC Testing Lab from Bay Shore, NY
- Surveyor from Brookhaven, NY
- Third Party Consultant from Melville, NY





Esthetic Considerations

- Excavated soil used to construct berm
- Maintain as many existing trees as possible
- 100 new trees to be planted
- Building exterior to be a natural color
- Exterior building lights are motion activated
- No audible exterior alarms
- Chain link fence with privacy screening





Project Status

- Access agreements in place for Town, NYSDOT, and Long Island Railroad properties.
- Subcontracts issued to local companies for the building, mechanical, and electrical. Treatment equipment ordered.
- Continue building and treatment system construction.
- Obtain all outstanding necessary local permits and approvals for utility connections (i.e. sewer, water, electric, etc.)
- Finalize discharge details into county basin.
- Issue subcontract for driller.





Current Schedule

Milestones	Date
Mobilization & Start of Construction	June 2008
Set Large Treatment Equipment Into Place	November 2008
Install of Additional Wells	November 2008 – Winter 2009
Exterior Process Piping and Utilities	Oct 2008 – Feb 2009
Building Complete, Continue Interior Work	Winter 2008 - 2009
Treatment System Construction Complete	Spring 2009
Plant Start-Up, Calibration & Testing	Spring 2009



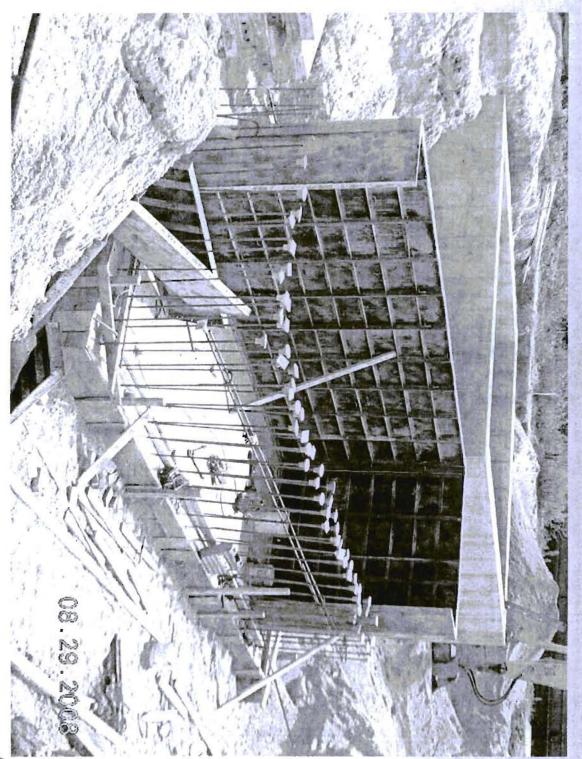


Community

- A project goal is to minimize disturbance to the surrounding neighborhood to best extent possible during the construction.
- NYSDEC Citizen Participation Office 631-444-0350
- Project Hotline cell phone number is 516-732-3393
- Periodic project updates will be delivered to the surrounding residences (approx. 200).
- Overnight security is present 7 days per week



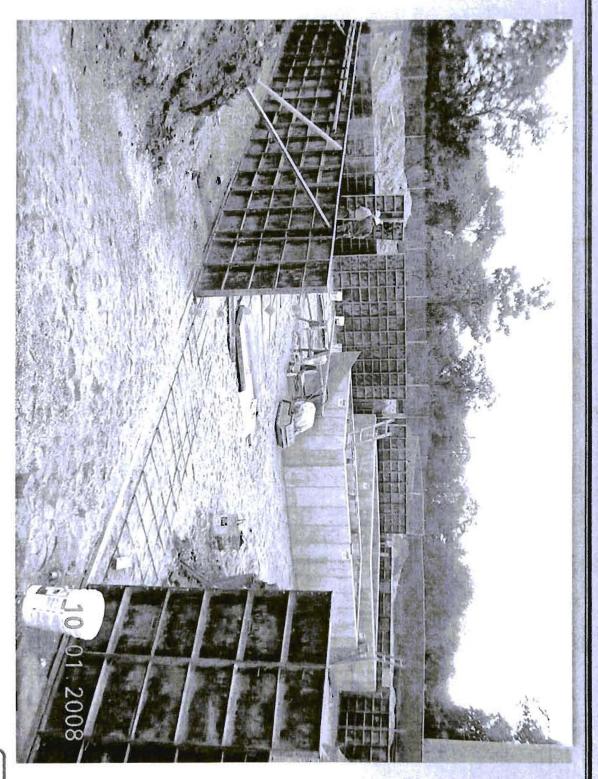




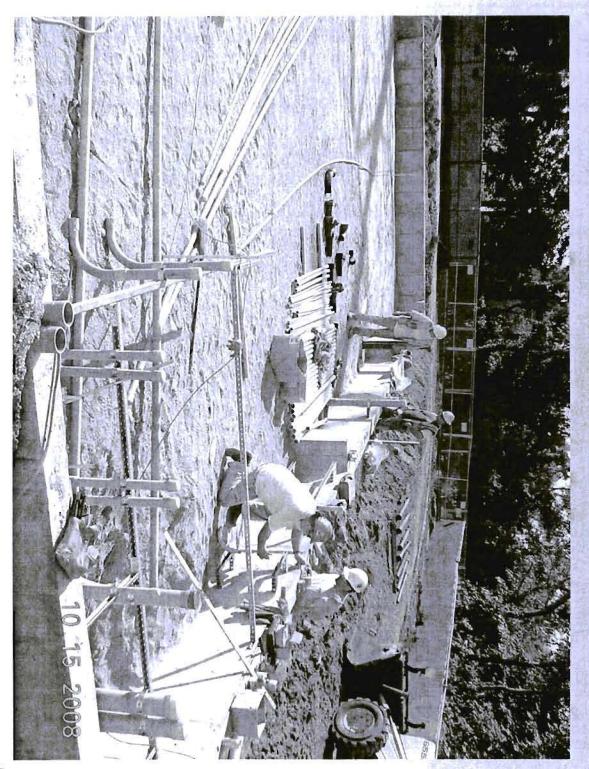




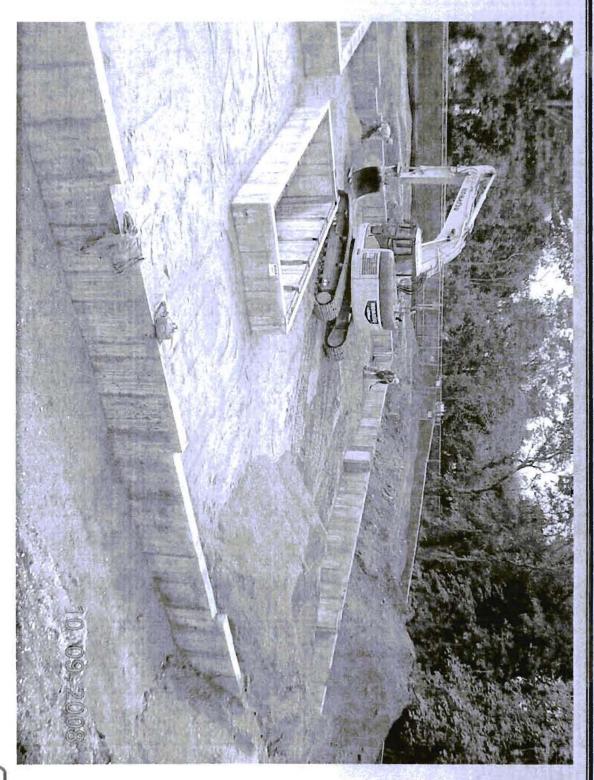




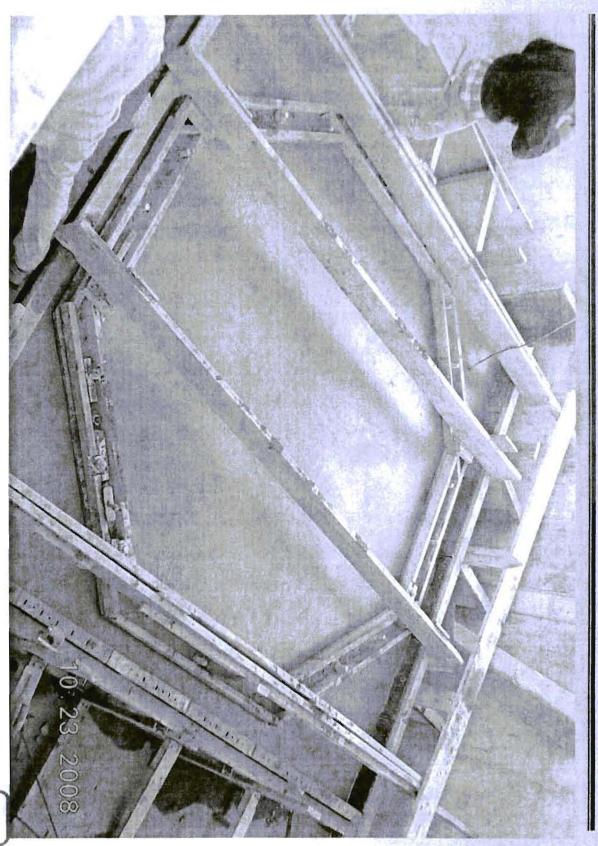




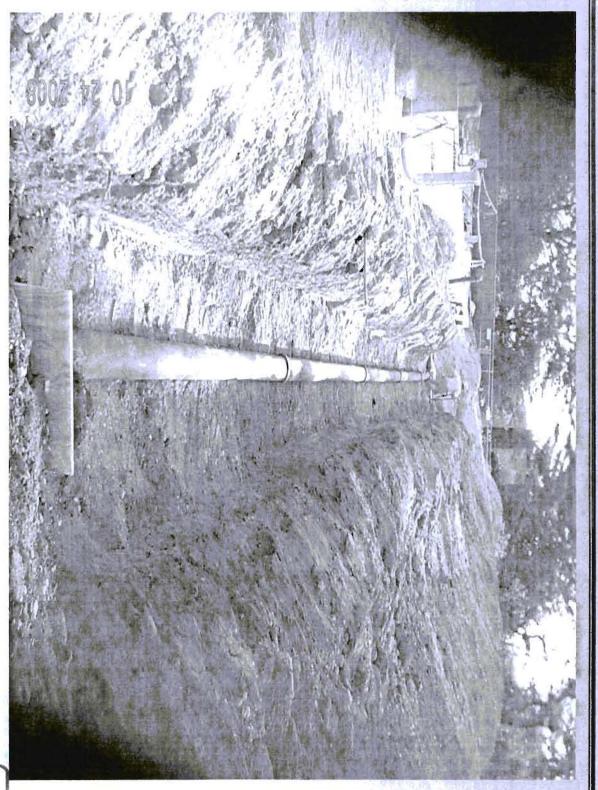




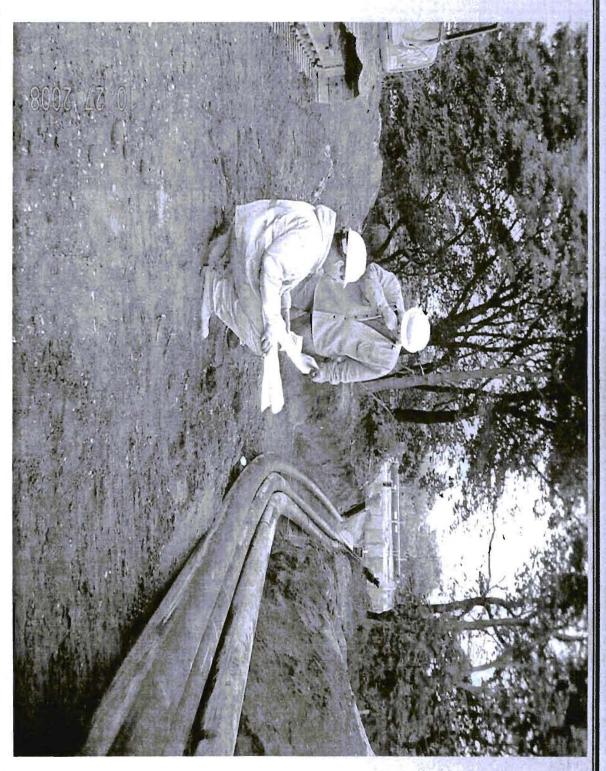
















Wrap-up

Questions?

