NAVFAC
Naval Facilities Engineering Command
NAVFAC MIDLANT

Site 1 – Former Drum Marshalling Area Remedial Action Construction Update

Naval Weapons Industrial Reserve Plant Bethpage
Bethpage, New York

6 February 2019

PRESENTATION OUTLINE

- Introductions – Who am I?
- Site 1 History
- Remedial Action Planning
- Remedial Action Components
- What Impacts YOU?
- Schedule

INTRODUCTIONS

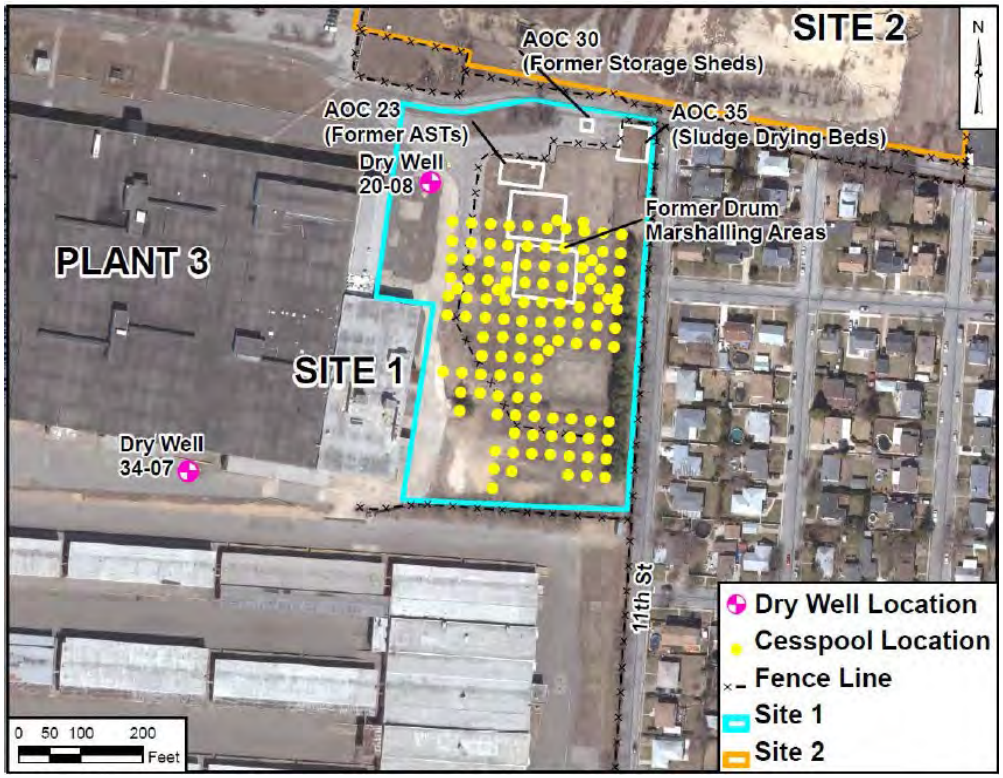
- APTIM Federal Services
  - Program Office – Norfolk, VA
  - Navy Remedial Action Construction Contractor – 20+ Years

- William L. Deane, Jr, P.E.
  - Program Manager for all Navy Remedial Action Work
  - 15+ Years of experience in Engineering and Remedial Construction

SITE 1 HISTORY

- Two former drum marshalling pads
- 120 abandoned cesspools for sanitary waters from Plant 3
- Drywells – Area of Concern (AOC) 34-07 and AOC 20-08 for storm water
- AOC 20-08 is included in the Site 1 Remedial Action Construction
- Soil contaminants include: Polychlorinated biphenyls (PCBs), chlordane, polynuclear aromatic hydrocarbons (PAHs), and metals

Site 1 Remedial Action focuses on soil removal



WHAT ARE WE DOING??

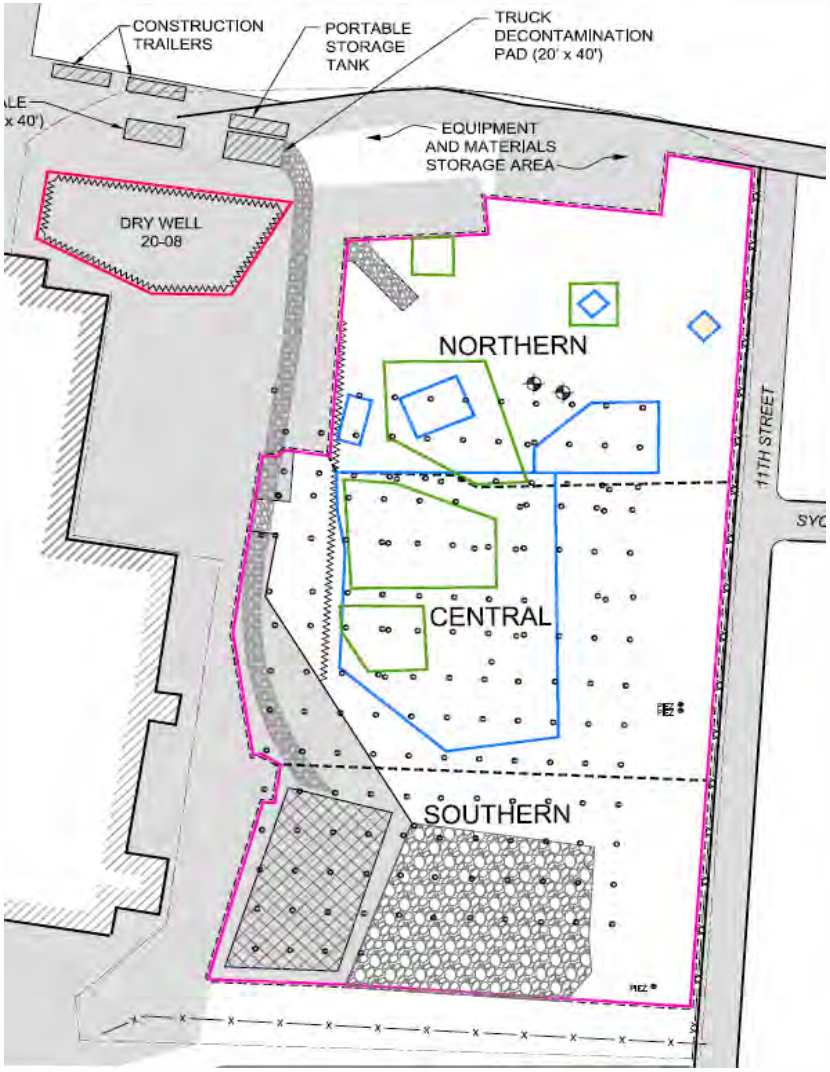
- The 2018 Operable Unit 4 Record of Decision selected remedy includes a limited excavation to remove and dispose of PCB-impacted soils and install a reduced permeability cover.
- Excavate contaminated soils to targeted depths
- Provide a cover that will reduce leaching of contaminants from unsaturated soil to the groundwater
- Restore Site 1 to existing conditions

REMEDIAL ACTION PLANNING

- Preparation of Project Plans
  - Remedial Action Work Plans
  - Traffic Control Plans
  - Waste Management Plans
  - Storm Water Pollution Prevention Plans, and
  - Accident Prevention and Health and Safety Plans
- Plans are reviewed and concurred on by Navy and NYSDEC
- Coordination with Town of Oyster Bay (Traffic Control and Residential Impacts)
- Coordination with Steel Equities (Adjacent Tenant at former NWIRP Property)
- Informational Sessions and Community Coordination
- Restoration Advisory Boards

REMEDIAL ACTION EXCAVATION

- Install sheet piling
- Excavate impacted soils to targeted depths below ground surface (bgs)
- Removal of cesspools and drywell 20-08
- Install a liner over areas requiring a depth of excavation 20-foot bgs or greater.



TRANSPORTATION and DISPOSAL

- Characterize wastes for disposal
- Disposal of PCB-Impacted Soils in accordance with Federal, State, and Local Regulations
- Recycled Concrete Debris
- Recycled Asphalt
- General Construction Debris
- Woody and Vegetation Debris
- Decontamination Water

Transportation and Disposal will be a continuous activity during the Remedy Implementation

RESTORATION

- All excavations will be backfilled to the pre-construction grade on site
- Backfill will be a continuous operation as needed throughout the project
- Replacement of existing berm along the eastern perimeter
- Install a topsoil layer where vegetative growth is planned (based on current conditions)
- Install asphalt parking areas where previously existing
- Repair existing roadways within the former NWIRP Property
- Install plantings, including large perimeter plantings to create a privacy screen along 11th Street
- Install perimeter fencing to replace previously removed fencing
- Post Construction Maintenance – 1 Year to ensure establishment of plantings and grasses

REPORTING

- Preparation of a Completion Report documenting the Remedial Action Construction in accordance with the Record of Decision
- Includes:
  - Sample results
  - As-Built construction documents with excavation depths
  - Waste disposal summaries
  - Certification of destruction/proper disposal (TSCA Wastes)
  - Photographic logs

WHAT IMPACTS YOU??

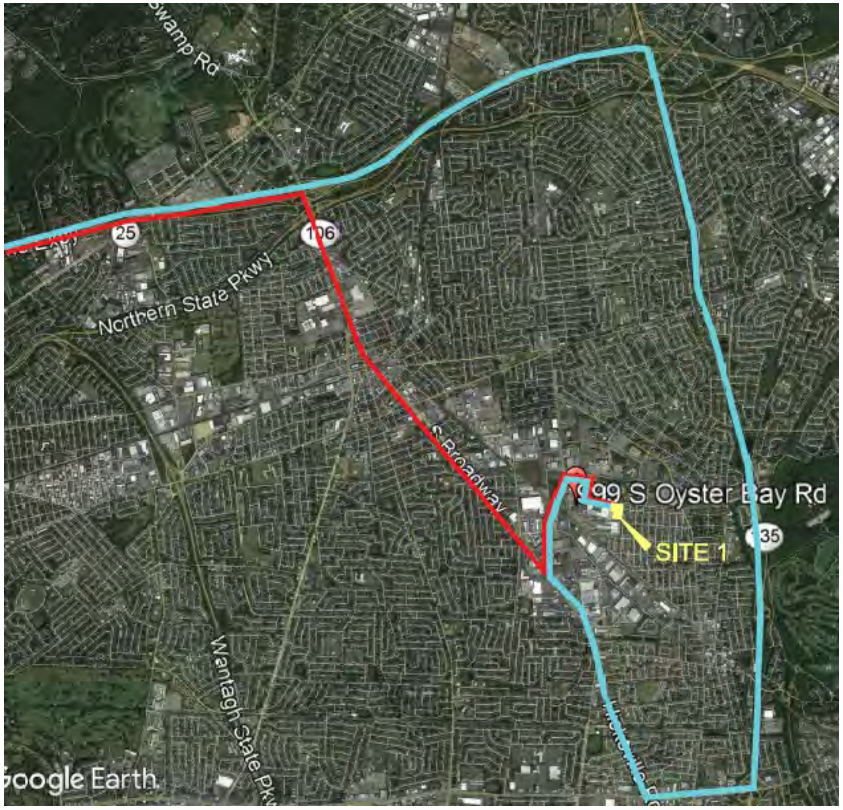
- TRAFFIC
- DUST
- NOISE
- OFF-SITE CONTAMINATION RISK?

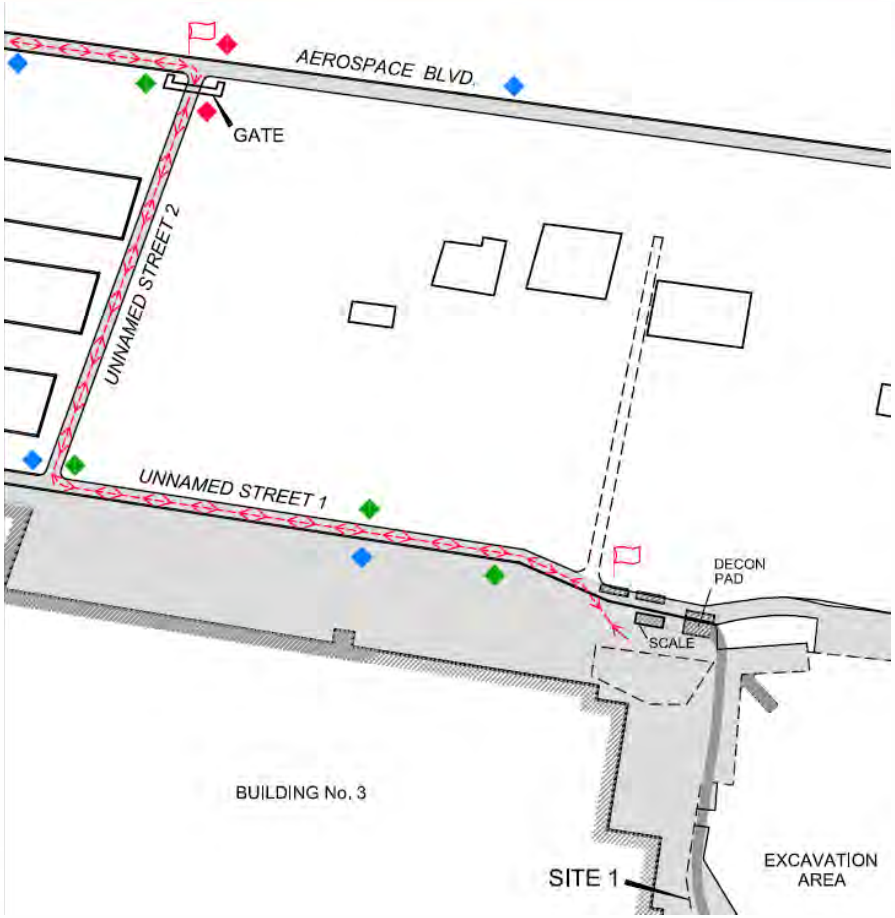
TRAFFIC IMPACTS

- Transportation and Disposal Activities and Backfill Importation
  - Two activities will generate ~ 3,800 roundtrip truck trips
  - Backhauling will be utilized to reduce impacts where possible
    - Haul backfill into site, then on return trip haul waste
    - Feasible only during non-hazardous hauling
- Where is it going?
  - Impacted soil will be disposed of at Federal, State, and Locally permitted operating facilities based on the waste classification.
  - Hazardous Waste will NOT be disposed of on Long Island
  - Transportation will include on-road trucking and rail cars as appropriate

TRAFFIC CONTROL PLAN

- Trucking Hours – 7:00am – 5:00pm Daily
- Signage to be installed to guide traffic
- Off-Island Route via I-495



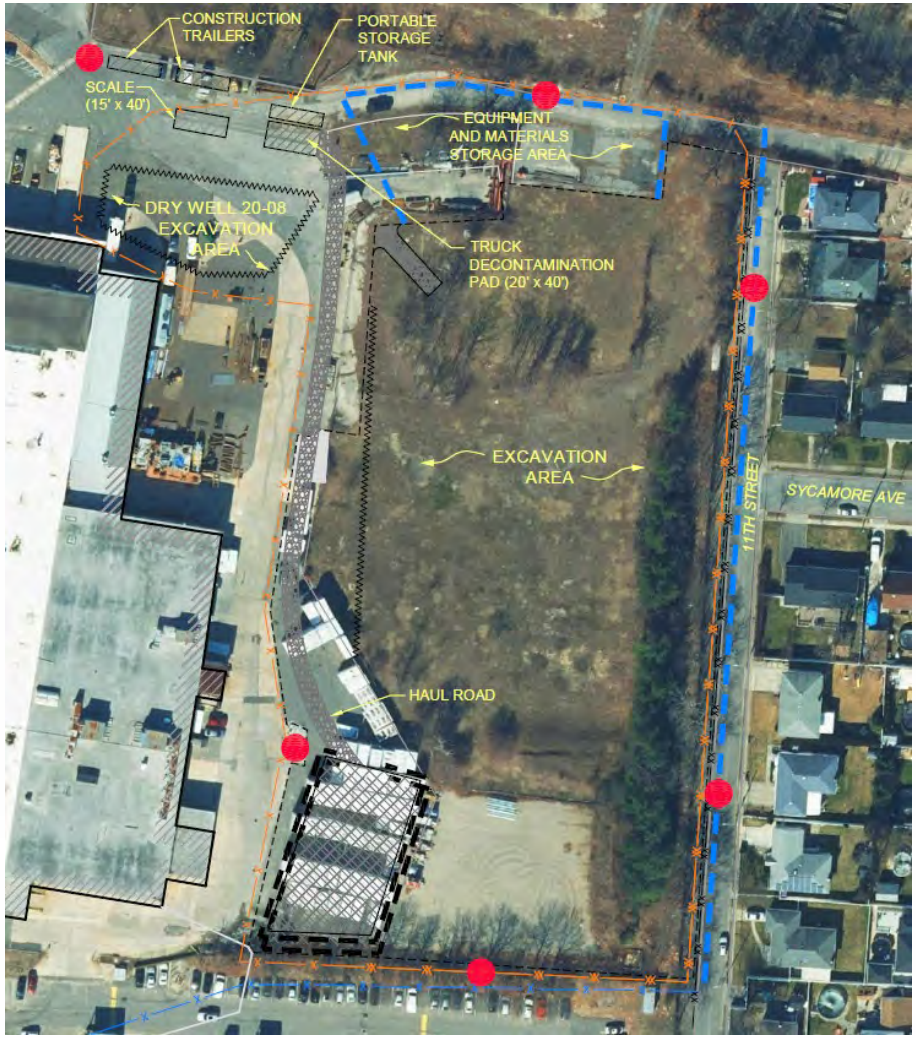


11th STREET IMPACTS

- Proximity of 11th Street to Site 1 requires encroachment onto 11th Street
- 8-foot high chain link fencing with privacy screen
- 3-foot high concrete barrier protecting fencing
- Construction and Informational signage
- Extends approximately 30-inches onto 11th Street.
- Will not impact vehicle traffic
- Will reduce parking along the NWIRP boundary, western side of 11th Street
- In-place approximately 14 months

DUST

- Dust monitoring will be performed continuously during construction activities
- Monitoring locations (red dots) initially setup, subject to modification and increase based upon prevailing winds and project activities
- Dust control during construction:
  - Water, utilized as a dust suppression
  - Tarping/covering stockpiles daily
  - Commercially available cohesive applications
- Workers will also wear personal dust monitors
- Dust concentrations above 1.0 milligrams per cubic meter require shutdown until dust suppression can be increased.



NOISE

- Installation of Sheet Piling
  - Why??? – Excavation Stability in reduced footprint
  - Installed in 40 foot sections and 60 foot sections
  - Duration of installation ~ 3 Months
- General Construction Noise
  - Back Up Alarms, Banging and Clanging of equipment
  - Haul Truck Doors

Sheet Piling Locations

NOISE

- Monitoring – Noise levels will be monitored, and will not exceed 85 decibels (dB) at the site perimeter
- What is 85 dB?
  - Car Wash at 20 feet (89 dB)
  - Propeller Plane Flyover at 1,000 feet (88 dB)
  - Diesel Truck at 40 mph from 50 feet away (85 dB)
  - Garbage Disposal (at user distance) (80 dB)

SHEET PIILING

PREVENTING OFF-SITE CONTAMINATION

- Sediment Migration – Run-off from rain
  - Project is operating under a Storm Water Pollution Prevention Plan – NYSDEC
  - Employs best management practices and engineering controls to eliminate potential pathways
  - Inspected daily, and immediately following every rain event
- Haul Trucks – Dirty tires, muddy flaps, unsecured loads
  - All trucks are:
    - Decontaminated with pressure washers and rough bristle brooms prior to leaving the site
    - Inspected for rocks/debris that could fly off during transport
    - Must have tarpaulins or load protecting covers prior to leaving site with impacted soils

SCHEDULE

- Planning: Now – Spring 2019
- Mobilization and Site Setup: Spring 2019
- Sheet Piling Install: Spring/Summer 2019
- Excavation: Spring 2019 – Winter 2019/20
- Liner Installation: Fall 2019 - Winter 2019/20
- Transportation and Disposal: Spring 2019 – Winter 2019/20
- Restoration: Spring 2020