PARCEL E OVERVIEW

- Approximately 128 acres
- Located in the southwestern part of HPNS
- Historically used as industrial support for shipyard activities
- 43 Remaining Structures at Parcel E
  - 17 Existing Buildings
  - 25 Former Buildings
  - 1 Ship Berth

REMEDIAL OVERVIEW FOR PARCEL E

- Areas identified for remediation as a result of historical activities
  - Solvents used for coating and cleaning equipment, as well as automotive uses at Building 406
  - Oil from two former oil reclamation ponds, known as “Former Oily Waste Ponds”
  - Contaminants as a result of historical use by Triple A Machine Shop
  - Radiological contamination in areas used by National Radiological Defense Laboratory (NRDL)
  - Areas historically used for storage and disposal of industrial waste

- Components of Parcel E Remedy
  - Soil and Sediment
    - Conduct targeted excavations
    - Install durable soil and asphalt covers
    - Repair and protect the shoreline
  - Groundwater
    - Treat groundwater
    - Install two underground barriers, known as “slurry walls”
    - Treat contamination at Former Oily Waste Ponds
  - Radiological
    - Perform radiological surveys
    - Remove radiologically-impacted materials
    - Install final cover over ground surface

Completed cleanup actions at Parcel E

- More than 60,000 cubic yards of soil and debris from two shoreline areas have been removed and disposed of in approved landfills
- The Navy has removed 8 underground storage tanks and 12 aboveground storage tanks at Parcel E
- A protective liner was installed over the clean soil that was used to fill the Former Oily Waste Ponds
- A Thermal Treatability Study was conducted at the Former Oily Waste Ponds to pump oil out of the groundwater and treat it with heat above ground
- A Solidification/Stabilization Treatability Study at the Former Oily Waste Ponds trapped oil in-place in columns filled with cement that extended below the ground surface

NEXT STEPS AT PARCEL E

- Upcoming work will complete the remedy at Parcel E and prepare it for transfer
  - Soil and sediment
    - Excavate and dispose of contaminated soil and debris
    - Manage soil gases
    - Install a durable cover over the parcel
    - Close remaining steam and fuel lines
    - Protect the shoreline
  - Groundwater
    - Treat groundwater
    - Install protective barriers to limit the flow of groundwater from site
    - Remove or treat remaining waste from Former Oily Waste Ponds
  - Radiological
    - Perform radiological surveys
    - Remove radiologically-impacted soil, debris, and objects
    - Install durable cover over the site

Upcoming Work at Parcel E: Schedule

2018
- Begin Work on Remedies 2018-2020
- Install Shoreline Protection 2018-2019
- Install Durable Cover 2020
- Monitor Groundwater below, during, and after transfer of property
- Monitor Remedies below, during, and after transfer of property
- Transfer Property 2021

MANAGEMENT AND MAINTENANCE OF REMEDIES

- The Navy will continue to monitor and maintain the remedy at Parcel E before, during, and after transfer of the property
  - Inspect and maintain all parts of the cleanup solutions at Parcel E on a regular schedule
  - Ensure no changes are made to any part of the final solution that would change the planned reuse
  - Monitor groundwater for chemical and radiological contaminants on a regular schedule
  - Evaluate the conditions of the remedy after a significant natural event occurs
    - earthquake
    - sea level rise
  - Make repairs or modifications if any part of the cleanup solution is damaged, altered, or jeopardized