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NSY PORTSMOUTH  
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MEETING MINUTES, AGENDA, AND PRESENTATION OF THE FINAL RESTORATION  
ADVISORY BOARD (RAB) HELD ON 2 DECEMBER 2014 AT THE KITTERY COMMUNITY  
CENTER NSY PORTSMOUTH ME (PUBLIC DOCUMENT)

12/02/2014

RESOLUTION CONSULTANTS

**Portsmouth Naval Shipyard  
Restoration Advisory Board Meeting  
Kittery Community Center, Kittery, Maine  
December 2, 2014**

**Attendees**

Restoration Advisory Board (RAB) members at the meeting included the following:

- RAB Community Members:
  - Doug Bogen
  - Diana McNabb
  
- Navy Representatives:
  - Lisa Joy, Portsmouth Naval Shipyard (PNS)
  - Linda Cole, Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic Remedial Project Manager (RPM)
  
- Regulatory Representatives:
  - Matt Audet, United States Environmental Protection Agency (USEPA)
  - Chris Evans, Maine Department of Environmental Protection (MEDEP)
  
- Other Participants:
  - Jackie Johnson, Portsmouth Naval Shipyard
  - Paul Dombrowski, Resolution Consultants
  - Sandy Amborn, Resolution Consultants
  - Deborah Cohen, Tetra Tech
  - William Hughes, AGVIQ Environmental
  - Tim Stone, StoneHill Environmental, Inc. (Technical Assistance Grant (TAG) technical advisor to Seacoast Anti-Pollution League (SAPL))
  - John Palmer, Palmer Federal

The following RAB members were not in attendance:

- RAB Community Members:
  - Jack McKenna
  - Roger Wells
  - Mary Marshall
  - Peter Britz
  
- Natural Resource Trustees:
  - Doug Grout, New Hampshire Fish and Game Department;
  - Denis-Marc Nault, Maine Department of Marine Resources
  - Ken Finkelstein, National Oceanic and Atmospheric Administration

- Ken Munney, United States Fish and Wildlife Service

### **Opening Statements:**

Lisa Joy, Navy RAB Co-Chair, opened the meeting by welcoming all attendees and led introductions. Ms. Joy welcomed all in attendance to join in open dialogue to provide input and questions during the meeting and emphasized the importance of such dialogue.

Doug Bogen, Community RAB Co-Chair, had no additional opening statements.

### **Environmental Restoration Program Status and Updates:**

Linda Cole, Navy RPM, presented the status and updates on the Environmental Restoration (ER) program at PNS. Status updates were presented for the ER Program for each Operable Unit (OU) or Site, with the following update highlights:

- OU1 (Site 10: Former Battery Acid Tank No. 24): Remedial Action is complete, and this OU is in Long Term Management (LTMgt) phase. The Draft Remedial Action Closeout Report (RACR) was submitted in June 2014, and the Navy has resolved regulatory comments. The pre-signature Final RACR was submitted in November 2014. The Final RACR will be signed by the Shipyard's commanding officer in December 2014.
- OU2 (Site 6: Defense Reutilization and Marketing Office (DRMO) Storage Yard, Site 29: Former Teepee Incinerator Site, and DRMO Impact Area): Remedial Action construction at OU2 was completed in Summer 2014. The draft Construction Completion Report (CCR) for the Waste Disposal Area was submitted in October 2014. The Draft CCR for the DRMO Area will be submitted in December 2014. LUC inspection was performed in October 2014 with no issues noted. The Draft Long-Term Management (LTMgt) Plan will include groundwater monitoring and sediment accumulation monitoring and is anticipated to be submitted in Winter 2015. LTMgt sampling and monitoring will be initiated in 2015.
- OU3 (Site 8: Jamaica Island Landfill (JILF), Site 9: Former Mercury Burial Sites, and Site 11: Former Waste Oil Tanks Nos. 6 and 7): This OU is in Operation, Maintenance, and Monitoring (OM&M) phase with an engineered cap in place. In October 2014, maintenance repairs were completed in response to observations of the landfill and LUC inspections performed in May 2014, including repairs to the landfill cap where erosional damage was occurring, replacement of signs, and removal of debris from ditches. Gas probes were abandoned in July 2014 as methane gas generation was not observed. A draft Gas Probe Abandonment Closure Report was submitted, and Navy is currently resolving regulatory comments on the report. The Draft RACR was submitted in November 2014.
- OU4 (Site 5: Former Industrial Waste Outfalls and Off-shore Areas Potentially Impacted by PNS Onshore ER Program Sites): The selected remedy for OU4 is sediment removal.

Remedial Action for off-shore areas is being conducted following control of on-shore sources of contamination. Additional sampling was performed to further delineate areas for removal at MS-01 and MS-03 in September 2014 to better bound the removal areas. The Navy is currently preparing a draft technical memorandum summarizing the findings of the sampling. The Remedial Action Work Plan (RAWP) was finalized in September 2014, and Revision 1 was prepared addressing additional MEDEP comments. Remedial Action (RA) began in September 2014 with an eelgrass survey at MS-04 and MS-12A. Dredging will be initiated in December 2014 and is anticipated to be completed in January 2015.

- OU7 (Site 32: Topeka Pier Site): The selected remedy for OU7 is excavation with LUCs. The Final LUCRD was submitted in September 2014, and LUC inspection was conducted in October 2014. The Draft RAWP was submitted in September 2014, and the Navy is currently resolving regulatory comments. The excavation component of Remedial Action is anticipated to be completed in 2015. Following the Remedial Action, OU7 will transition to LTMgt with annual LUC inspections. The Draft LTMgt Plan was submitted in August 2014, and no comments were issued by the regulatory agencies. The Draft Final LTMgt Plan will be submitted in 2015 following completion of the RA.
- OU8 (Site 31) Former West Timber Basin: This OU will be undergoing a Remedial Investigation (RI) phase. The Draft Sampling and Analysis Plan (SAP) was submitted in April 2014, and the Navy is currently resolving regulatory comments. The Draft Final SAP is anticipated to be submitted in 2014, with RI field sampling activities to be conducted in Winter 2014/2015.
- OU9 (Site 34: Former Oil Gasification Plant, Building 62): OU9 is in the LTMgt phase. The Final LUCRD was submitted in September 2014. LUC inspection was conducted in October 2014 with no issues noted. The Draft RACR was submitted in August 2014, and the Navy is currently resolving regulatory comments. The Draft Final RACR will be submitted in 2015 following completion of the RA in offshore sediment, as dredging will be performed just offshore of OU9.

#### **Regulator Updates:**

Chris Evans noted that there were not any updates to report on behalf of MEDEP and that the department is up to date in review of documents that have been submitted. Matt Audet indicated that USEPA issued approval for off-site transport and disposal of dredged sediments from OU4 on December 2, 2014.

#### **OU4 Remedial Action Updates (AGVIQ):**

William Hughes of AGVIQ Environmental presented on the status of RA at OU4. The Remedial Action Objectives (RAOs) for OU4 are to reduce risks to benthic invertebrates from exposure to bioavailable/bioaccessible COCs in sediment at Monitoring Stations (MS) where contaminants were measured in excess of acceptable levels. Contaminants of concern in sediment at OU4

include PAHs (MS-01, MS-03, MS-04, MS-12A), copper (MS-03, MS-04), and lead (MS-12A, MS-12B). Areas MS-01, MS-03, and MS-04 are located in the back channel of the Shipyard. MS-12A is located by the shipways on the south side of the island. MS-12B is located near Berth 4 where the water depth drops steeply.

An eelgrass survey was conducted at MS-04 and MS-12A in September 2014. Eelgrass was observed at MS-12A, but not at MS-04. Photographs and a short video along one of the track lines were shared from the eelgrass survey that was conducted at MS-12A.

Mobilization for dredging began on December 1, 2014. Buoys that monitor turbidity and water quality are expected to be installed on December 3, 2014 to begin logging background water quality data. Water quality data from the buoys can be downloaded/monitored from a website in near real-time. Dredging will generally be performed to depths of 1 to 4 feet, and in some areas dredging will be conducted until rocky substrate is encountered. The estimated total sediment dredge volume is approximately 5,110 cubic yards. Dredging at MS-01, MS-03, and MS-04 will be conducted within a turbidity/silt curtain anchored to the river bottom to minimize the release of suspended sediment to the environment. A chain runs continuously along the bottom of the curtain with weights every 15 to 20 feet. A second turbidity curtain will be installed beyond the limits of the first curtain to provide additional protection. Prior to dredging, additional in-situ waste characterization samples will be collected at MS-01 and MS-12B. Pre- and post-dredging bathymetric surveys will be conducted to verify dredging is completed according to the RAWP. AGVIQ anticipates that RA will be completed in January 2015.

Dredged sediment will be placed on to a deck barge lined with filter fabric and waddles that allow the sediments to dewater. The barge will transport sediment to Berth 2A for offloading. Earlier it was reported that sediments would be offloaded at Berth 7, but this area it is currently in use at PNSY. Dewatered sediment will be solidified using Portland cement, sawdust, and/or wood chips prior to off-site transport and disposal. Based on waste characterization data, all sediments to be disposed of will be characterized as non-hazardous, with the exception of a small portion of sediments at MS-12A which exceeded the TCLP criteria for lead. Sediment exceeding the TCLP lead criteria will be stabilized/solidified to meet the TCLP criteria and re-sampled. All sediments will be transported to Waste Management's Turnkey facility in Rochester, New Hampshire. No backfilling will be conducted in the dredged areas, with the exception of MS-12A in sediment accumulation areas to support for re-vegetation of eelgrass.

The eelgrass survey report and videos were submitted to the regulatory agencies. In order to meet the RAOs, the Navy estimates that approximately 2% of the eelgrass bed at MS-12A will need to be removed in order to reduce the average contaminant concentration to be protective of benthic invertebrates. A technical conference call to discuss the issue further with regulatory agencies is scheduled for December 8, 2014.

### **OU7 Long-Term Management Plan (Tetra Tech):**

Deborah Cohen of Tetra Tech presented on the OU7 LTMgt Plan. The LTMgt Plan for OU7 is a guide for site personnel to perform inspection, maintenance, and associated recordkeeping and reporting for the LUC component of the OU7 remedy, including requirements provided in the LUCRD. The LTMgt Plan includes supporting information and field documents needed to complete the shoreline erosion control inspections, which is a significant component.

LUC performance objectives are to prevent residential exposure to contaminated subsurface soil, prohibiting residential use/development of the site, specify requirements for proper management of excavated subsurface soil as part of future construction or maintenance activities, and maintain existing shoreline erosion controls to prevent erosion of contaminated fill along the shoreline to the offshore area.

The Draft LTMgt Plan was submitted in August 2014. No review comments were provided by the EPA or MEDEP on the draft document. The first LUC inspection was conducted in October 2014, and there were no issues noted. The Draft Final LTMgt Plan will be submitted in 2015 following completion of the excavation Remedial Action at OU7.

### **RAB Charter:**

Discussion was conducted about updating the RAB Charter, notably about revisions to provide details on criteria for dis-establishing the RAB. Remedial Actions are nearly all completed at PNSY, and the current RAB Charter does not have a mechanism for dis-establishment. Other Charter items discussed included frequency of RAB meetings, membership, and rules for determining a quorum. The Navy presented possible language for dis-establishing and re-establishing a RAB from the Bethpage, NY RAB Charter. It was noted that the Navy is required to assess community interest every two years for all sites that do not have an active RAB, and a RAB can be re-established if there is interest from the community. EPA expressed desire to have Remedies in Place for all OUs prior to dis-establishment of the RAB. Community, regulatory, and Navy attendees agreed on reducing frequency of RAB meetings based on the progress of the ER Program and the established trust between the parties over more than 10 years of interaction. The Navy will prepare draft language that includes reducing the frequency of meetings to be annual or "as needed" and dis-establishment of the RAB when Remedy in Place is attained. Changes to Charter text regarding quorum and membership will not be proposed at this time. The Navy will send revisions to the RAB members for review. Approval of a revised RAB Charter would require a quorum, which should include community RAB members. It was confirmed that government representatives are voting RAB members. The Navy noted that the current RAB is small, but the members are engaged, informed, and committed. Dis-establishment of the RAB may affect the TAG, and this is something that TAG would evaluate. All in attendance agreed on the benefit of having representation from the Town of Kittery.

### **Community Remarks and Open Discussions and Questions:**

There were no additional community questions or discussion.

**Future Meetings:**

The next RAB meeting was proposed for Spring 2015. The agenda will include an update on Remedial Action at OU4 and OU7, RI activities at OU8, and additional discussion on revisions to the RAB Charter.

Portsmouth Naval Shipyard  
Restoration Advisory Board Meeting  
December 2, 2014

Agenda

- Introductions
- Opening Statements
  - Navy Co-Chair (Lisa Joy, NAVFAC)
  - Community Co-Chair (Doug Bogen)
- Environmental Restoration Program Status and Updates (Linda Cole, NAVFAC)
- Regulator Updates (USEPA and MEDEP)
- OU4 Remedial Action Updates (AGVIO)
- OU7 Long-Term Management Plan (Tetra Tech)
- RAB Charter (Linda Cole, NAVFAC)
- Community Remarks
- Open Discussion and Questions



## Portsmouth Naval Shipyard Environmental Restoration Program Status and Updates

December 2014

### OPERABLE UNIT 1 Site 10 (Former Battery Acid Tank No. 24)



- **Remedial Action Closeout Report (RACR)**
  - Draft submitted June 2014
  - Regulatory comments resolved
  - Pre-signature Final RACR submitted in November 2014
  - Shipyard to sign Final RACR in December 2014



- **Land Use Control Remedial Design Revision**
  - LUCRD revised based on completion of post-remediation groundwater monitoring
  - Finalized September 2014



## OPERABLE UNIT 2

Site 6 (DRMO Storage Yard) & Site 29 (Former Teepee Incinerator Site)



- **Remedial Action**

- Construction completed in Summer 2014

- **Construction Completion Report (CCR)**

- Draft CCR for Waste Disposal Area submitted in October 2014
  - Draft CCR for DRMO Area to be submitted December 2014



- **Long Term Management (LTMgt) Plan**

- LUC Inspection conducted in October 2014
  - Draft LTMgt Plan to be submitted in Winter 2015
  - LTMgt groundwater sampling to be conducted in 2015



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Portsmouth Naval Shipyard Environmental Restoration Program, December 2014

## OPERABLE UNIT 3

Site 8 (Jamaica Island Landfill)



- **OM&M Activities**

- 2013 Inspection Report finalized in June 2014
  - Landfill and LUC inspection (Round 13) performed in May 2014
  - Minor maintenance items and replacement of signs performed in October 2014



- **Removal of landfill gas sampling points**

- Gas probes abandoned in July 2014
  - Resolving regulatory comments on the Draft OU3 Gas Probe Abandonment Closure Report

- **Remedial Action Closeout Report (RACR)**

- Draft submitted November 2014



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Portsmouth Naval Shipyard Environmental Restoration Program, December 2014

## OPERABLE UNIT 4

Site 5 (Former Industrial Waste Outfalls) and Offshore Areas of Concern



- **Selected Remedy = Sediment Removal with Off-Yard Disposal at 4 monitoring stations**

- **Additional sampling to further delineate areas for removal conducted Fall 2013 and September 2014**

–Draft technical memo summarizing findings to be submitted Winter 2015

- **Remedial Action Work Plan (RAWP) finalized in September 2014**

–RAWP Revision 1 to address MEDEP comments submitted in November 2014

- **Remedial Action commenced in September 2014**

–Eel grass survey at MS-04 and MS-12A completed in September 2014

–Maine dredging window is open November 8 through April 9



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Portsmouth Naval Shipyard Environmental Restoration Program, December 2014

## OPERABLE UNIT 7

Site 32 (Topeka Pier Site)



- **Selected Remedy = Excavation with Land Use Controls**

- **Land Use Control Remedial Design (LUCRD)**

–LUCRD finalized in September 2014

–LUC inspection completed in October 2014

- **Remedial Action**

–Draft RAWP submitted in September 2014

–Resolving regulatory comments

- **Long Term Management Plan (LTMgt)**

–Draft LTMgt Plan submitted in August 2014

–Regulatory review completed: no comments received

–Draft Final LTMgt Plan to be submitted in 2015 after Remedial Action Completion



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Portsmouth Naval Shipyard Environmental Restoration Program, December 2014

OPERABLE UNIT 8  
Site 31 (Former West Timber Basin)



• Remedial Investigation

- Draft Sampling and Analysis Plan (SAP) submitted April 2014
- Resolving regulatory comments
- Draft Final SAP to be submitted in 2014
- Remedial Investigation field activities to start Fall/Winter 2014-2015



OPERABLE UNIT 9  
Site 34 (Former Oil Gasification Plant, Building 62)



• Land Use Control Remedial Design (LUC RD)

- LUC RD finalized in September 2014
- LUC inspection conducted in October 2014

• Remedial Action Closeout Report (RACR)

- Draft submitted in August 2014
- Resolving regulatory comments
- Draft final to be submitted in 2015 after Remedial Action of off-shore sediment completed





**Operable Unit (OU) #4  
Status Update  
Portsmouth Naval Shipyard  
Restoration Advisory Board  
December 2, 2014**

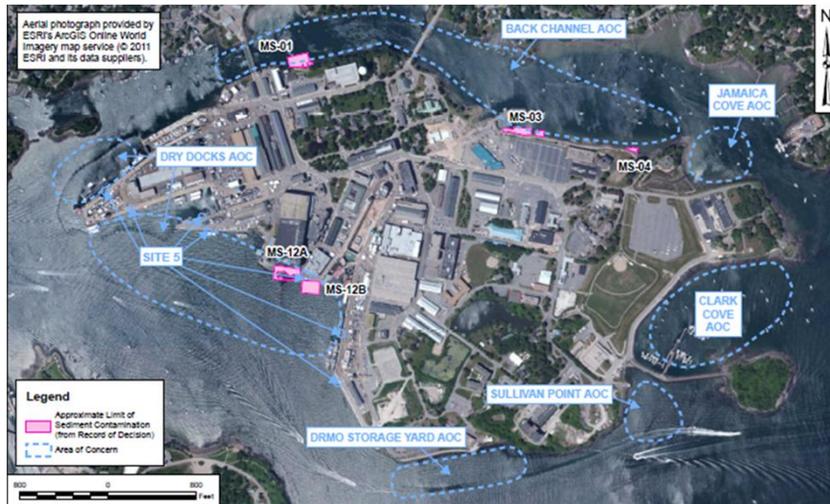


## Outline



- Site Location and Overview
- Remedial Action Objectives
- Selected Remedy
- Scope of Work
- Remedial Action Activities
- Remedial Action Status
- Questions and Comments

## Site Location Map



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## Remedial Action Objectives



- Reduce risks to benthic invertebrates from exposure to bioavailable/bioaccessible chemicals of concern in sediment at OU4 Monitoring Stations to acceptable levels.

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## Selected Remedy



- Dredge Monitoring Station MS-01 to depths ranging from 1 to 4-feet.
- Dredge Monitoring Station MS-03 to depths ranging from 1 to 3-feet.
- Dredge Monitoring Station MS-04 to a depth of 1-foot.
- Dredge Monitoring Station MS-12A until the rocky substrate is encountered.
- Dredge Monitoring Station MS-12B to a depth of 1-foot or the rocky substrate is encountered.
- Estimated 5,110 cubic yards of sediment is to be dredged and disposed.
- Dredged sediments will be dewatered, solidified for transport to a licensed disposal facility.

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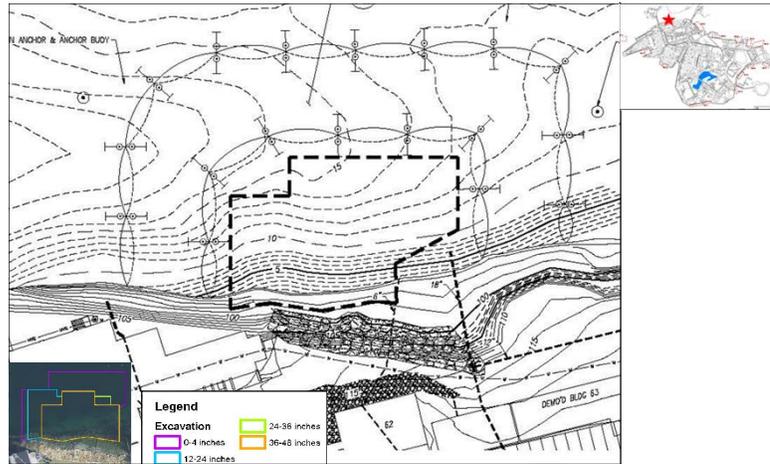
## Chemicals of Concern for OU4



- **Polyaromatic Hydrocarbons**
  - MS-01
  - MS-03
  - MS-04
  - MS-12A
- **Copper**
  - MS-03
  - MS-04
- **Lead**
  - MS-12A
  - MS-12B

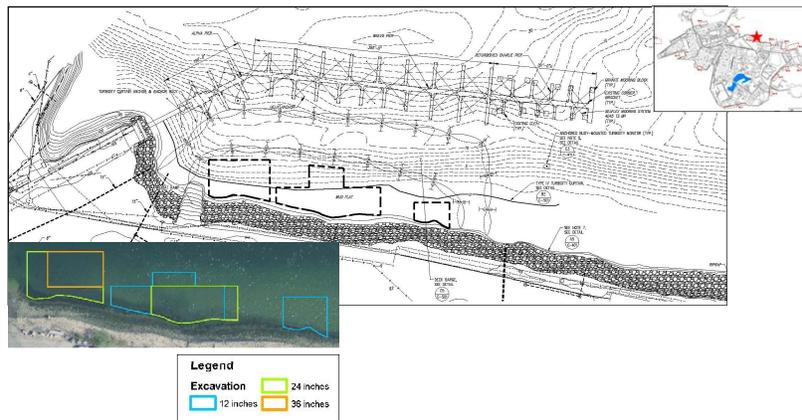
6

# Monitoring Station MS-01 Layout



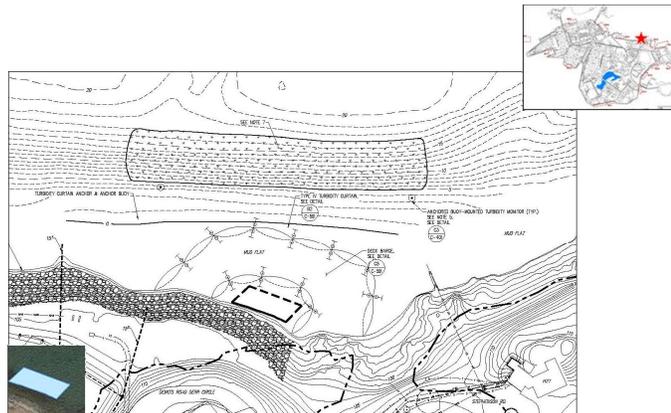
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# Monitoring Station MS-03 Layout



8

# Monitoring Station MS-04 Layout



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# Monitoring Areas 12A and 12B Areas

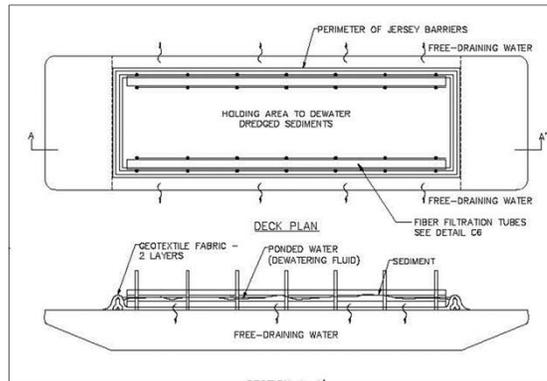


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## Sediment Dewatering, Solidification and Disposal



- Dredged sediments are allowed to gravity drain on deck barge within turbidity curtain.
- Barge is moved to Berth 7 where it is solidified with cement, sawdust or wood chips.
- Transported to landfill



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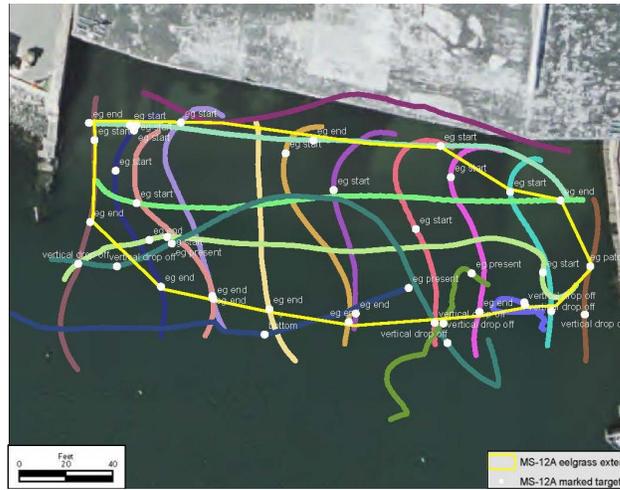
## MS-12A Eel Grass Survey



April 2012

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# MS-12A Eel Grass Survey Tracklines



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# MS-12A Bottom Photos



Pebble cobble bottom near the shoreline



Example of sparse eelgrass settlement



Example of sparse eelgrass settlement



Dense eelgrass settlement



Dense eelgrass settlement



Vertical drop off

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## Remedial Action Status



- **Eel Grass Survey of MS-04 and MS-12A** (Completed September 25, 2014)
- **Collect In Situ Waste Characterization Samples from MS-01, MS-03 MS-04, and MS-12A** (Completed October 2, 2014)
- **Site Mobilization & Setup** (December 2014)
- **Collect In Situ Waste Characterization Samples from MS-01 and MS-12B and Water Quality Background Data**
- **Install Turbidity Curtains at MS-01, MS-03 and MS-04**
- **Dredge and Dewater Sediments**
- **Perform Bathymetric Survey to Verify Dredge Depths Achieved**
- **Solidify Sediments for Transport**
- **Load and Dispose of Sediments**
- **Demobilize from Site** (January 2015)
- **Submit a Construction Completion Report documenting the work performed**

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## Questions and Comments



**Questions?**

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**Draft Long-Term Management Plan  
for Operable Unit 7**

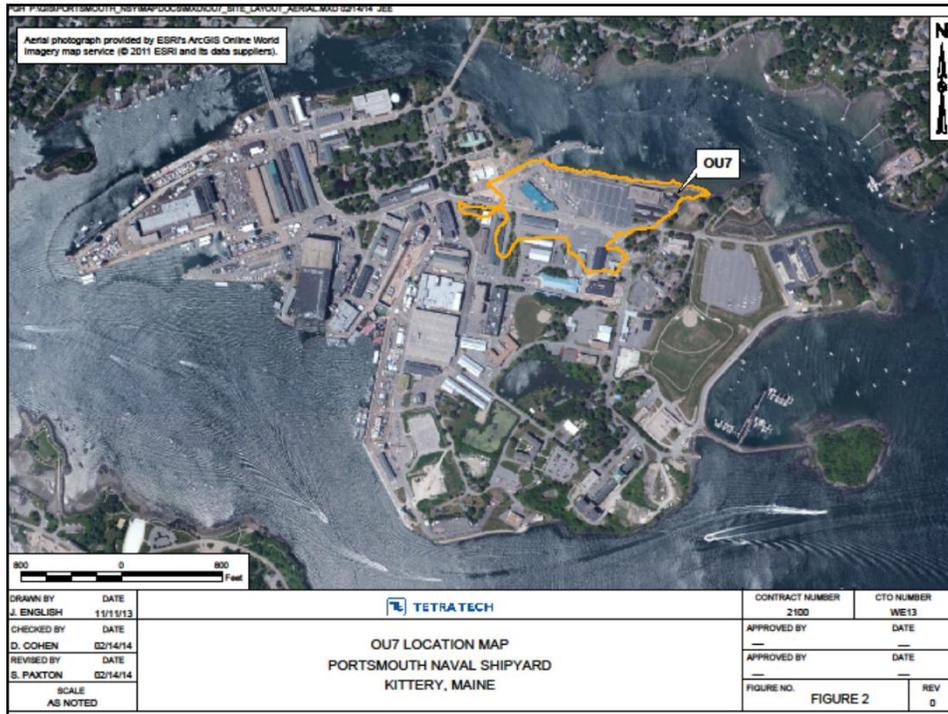
**Portsmouth Naval Shipyard**  
**Date: December 2, 2014**

### Remedy Implementation for OU7

- Record of Decision for OU7 - signed September 2013.
- Remedy consists of:
  - Limited soil excavation – as per the Remedial Action Work Plan (RAWP) for OU7
  - Land use controls (LUCs) – as per the LUC Remedial Design (RD) and Long-Term Management (LTMgt) Plan.
- Draft RAWP submitted in September 2014.
- Final LUC RD submitted in September 2014.
- Draft LTMgt Plan submitted in August 2014.
- First LUC inspection – October 27, 2014.



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## LUC Performance Objectives

- Prohibit residential reuse of the site unless additional action is undertaken to prevent residential exposure to contamination in subsurface soil.
- Provide requirements for proper management of excavated subsurface soil from the site as part of any future construction or maintenance activities.
- Maintain the existing shoreline erosion controls to prevent erosion of contaminated fill along the shoreline to the offshore area.



## LTMgt Plan Objective and Organization

- The LTMgt Plan for OU7 is a guide for site personnel to perform inspection, maintenance, and associated recordkeeping and reporting for the LUC component of the OU7 remedy.
- The Plan provides LTMgt requirements for implementation of LUCs provided in the LUC RD.
- The LUC RD is included as Appendix A of the Plan.
- Shoreline erosion control inspection supporting information and field form are provided in Appendix B.

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## LUC Inspection and Maintenance Activities

**Table 1: Summary of LUC Inspection and Maintenance Activities**

Activity	Tasks	Reference Section
1. Notify regulators of inspection schedule and arrange access.	<ul style="list-style-type: none"> <li>• Email schedule to regulators.</li> <li>• Contact PWD-ME IR Program Manager.</li> <li>• Complete paperwork (e.g., Shipyard access request and camera pass application).</li> </ul>	Section 3.1.
2. Complete Documentation Questions.	<ul style="list-style-type: none"> <li>• Contact PWD-ME IR Program Manager.</li> <li>• Contact Portsmouth and Kittery land use offices.</li> </ul>	Section 3.1 and Appendix A.
3. Conduct Site Inspection/Complete Inspection Questions.	<ul style="list-style-type: none"> <li>• Walk entire site within LUC boundary.</li> <li>• Inspect shoreline erosion controls using the inspection field form.</li> <li>• Identify potential non-routine maintenance items.</li> </ul>	Section 3.2.1 and Appendices A and B.
4. Conduct Routine Maintenance.	<ul style="list-style-type: none"> <li>• Remove minor debris from shoreline erosion controls.</li> <li>• Remove saplings, shrubs, or other woody vegetation from shoreline erosion controls.</li> </ul>	Section 3.2.2 and Appendix B.
5. Complete Recordkeeping and Reporting.	<ul style="list-style-type: none"> <li>• Complete LUC Compliance Inspection Checklist.</li> <li>• Upload the checklist to NIRIS.</li> <li>• Complete Table 2 information for Navy records.</li> </ul>	Section 3.3 and Appendix A.

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