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NSY PORTSMOUTH
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PRESENTATION AND ATTACHMENTS FOR RESTORATION ADVISORY BOARD MEETING
HELD 23 APRIL 1998 NSY PORTSMOUTH ME
4/23/1998
PORTSMOUTH NAVAL SHIPYARD

**PORTSMOUTH NAVAL SHIPYARD
RESTORATION ADVISORY BOARD AGENDA**

Date April 23, 1998
Place Day's Inn Kittery, Maine
Time 7 p.m.- 9 p.m.

Introduction

Status of work

Regulator Updates

Presentation on Off-Shore Technical Meeting

Other Issues as Required

**PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM**

**OPERABLE UNIT 4
Offshore Operable Unit**

**Restoration Advisory Board
April 23, 1998**

OFFSHORE INVESTIGATIONS

- **Offshore Sampling**
 - 1991 And 1993 Offshore Investigations
 - 1996/1997 Seep/Sediment Sampling Data Packages
- **Offshore Risk Assessments**
 - Human Health
 - Phase I/II Human Health Comparison (in prep)
 - Ecological Risk Assessment (in prep)

OFFSHORE INVESTIGATIONS

- **Fate and Transport Modeling**
 - GW Fate and Transport Modeling Phase I with addendum
 - Maine Geochemical Modeling
- **Onshore Investigations**
 - 1996/1997 Seep/Sediment Sampling Data Packages

IDENTIFY POTENTIAL RISKS

- **Human Health Risk Assessment**
 - Risk Due to Seafood Ingestion at Background Levels
- **Ecological Risk Assessment**
 - Assessment Endpoints have Identified Risks

REMEDIAL ACTION OBJECTIVES

Remedial Action Objectives (RAOs)

- Chemicals of Concern
- Exposure Route(s) and Receptor(s)
- Acceptable Chemical Level(s) for Each Exposure Route

REMEDIAL ACTION OBJECTIVES

- **Site Specific RAOs**
 - No RAOs Required for Avian Assessment Endpoint due to Negligible Risk
 - Reduce or Eliminate (Protect) Effects to the *Assessment Endpoint* from *Potential Chemicals of Concern* by Exposure in *Affected Media*

REMEDIAL ACTION OBJECTIVES

- Site Specific RAOs (cont'd)
 - Sediment RAO Required for Benthic, Eelgrass, Epibenthic, Salt Marsh Assessment Endpoints
 - Surface Water RAO Required for Pelagic, Epibenthic, Eelgrass, and Salt Marsh Assessment Endpoints

REMEDIAL ACTION OBJECTIVES

ASSESSMENT ENDPOINTS						
	Pelagic	Epibenthic	Benthic	Eelgrass	Avian	Salt Marsh
MEDIA		Sediment	Sediment	Sediment	No RAOs	Sediment
	Water	Water		Water		Water
Area of Concern						
Clark's Cove	X	X	X	X		X
Sullivan's Point		X	X	X		X
DRMO		X				
Dry Docks		X	X	X		
Back Channel		X	X	X		X
Jamaica Cove		X		X		X
Portsmouth Hbr	X	X				

GENERAL RESPONSE ACTIONS

- Dredging
- Containment
 - Capping in place
 - Restoration
- No Action/Limited Action
 - No Further Action
 - No Current Action With Monitoring
- Institutional Controls
- Treatment
 - In Situ
 - Ex situ

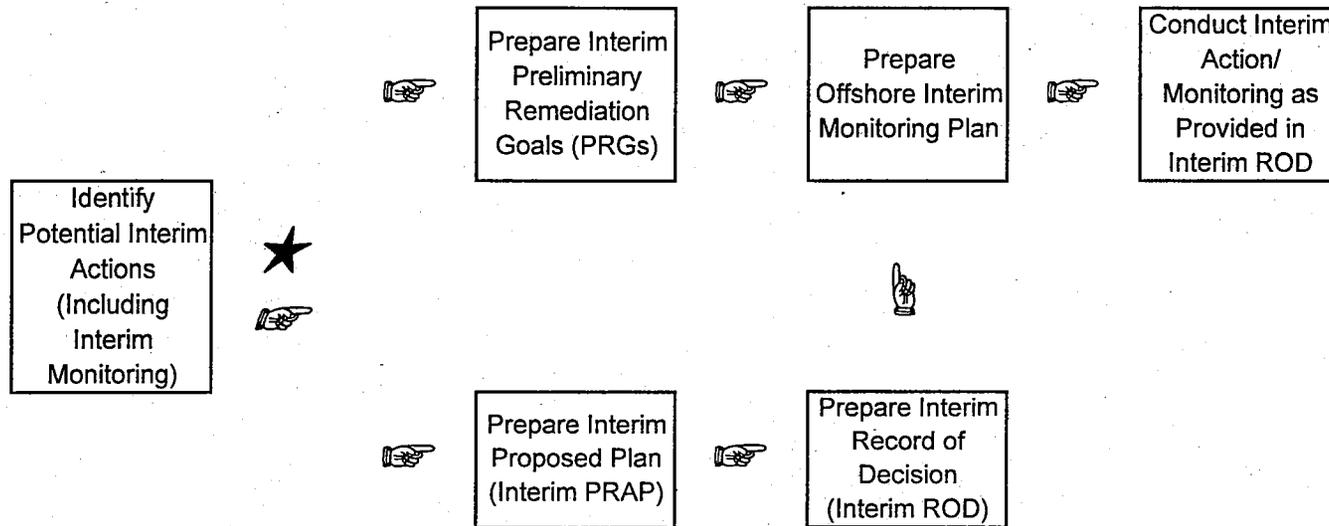
NEXT ACTIONS

- Complete Offshore Ecological Risk Assessment
- Interim Propose Remedial Action Plan (IPRAP)
 - Propose schedule
 - Develop Interim RAOs
 - Follow up with Human Health Risk Assessors (RE: No RAOS)

NEXT ACTIONS

- Obtain Eelgrass Study Information**
- Develop Interim Monitoring Plan**
- Start Offshore Feasibility Study**
 - Development of Preliminary Remediation Goals (PRGs)**
 - Develop Final RAOs**

PROCESS FLOW DIAGRAM FOR INTERIM REMEDIAL ACTION FOR THE OFFSHORE AT PORTSMOUTH NAVAL SHIPYARD



★ indicates current position in remedial process.

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM
STATUS OF WORK
April 23, 1998

SITE STATUS -

OU 2 (SITES 6, DRMO, & 29, Incinerator Site)

A treatability workplan is being developed for a soil solidification and/or stabilization alternative at these sites. If appropriate this alternative would be included in the feasibility study for this area.

Fate and transport modeling is being performed at this site to assist in making remedial decisions.

A workplan has been finalized for additional site characterization. Field work at the Incinerator Site will begin in June.

OU 3 (SITES 8, Jamaica Island Landfill, 9, Mercury Burial Vaults, & 11, Waste Oil Tanks)

Fate and transport modeling is being performed at this site to assist in making remedial actions.

Mercury Burial Vault MB I has been removed. A Removal Action Report is being prepared.

SITE 10, Battery Acid Tank.

A workplan has been finalized for additional site characterization. Field work will begin in June.

SITE 27, Berth 6 Industrial Area (formerly Fuel Oil Spill Area)

Fate and transport modeling is being performed at this site to assist in making remedial action decisions.

SITES 30, Galvanizing Plant (Building 184); ;31, West Timber Basin; 32, Topeka Pier.

A workplan has been finalized for performing a Site Investigation to determine if these sites should enter the CERCLA Process.

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM
STATUS OF WORK
April 23, 1998

DOCUMENT STATUS -

GROUNDWATER INVESTIGATION

PURPOSE - Monitoring of existing groundwater monitoring wells to provide additional data on the potential release and movement of contaminants from several of the sites. Low flow sampling techniques are being used, partially to help determine a better baseline of information for use in the groundwater modeling effort. This information will also help judge the effectiveness of any future remedial actions and provide monitoring for any current releases

STATUS - The data package for the fourth round of sampling in November 1997 has been submitted.

NEXT ACTIONS - Submit the summary report on all four rounds of low flow groundwater monitoring.

FATE AND TRANSPORT MODELING

PURPOSE - To evaluate current onshore contaminant migration to the offshore environment. Results will assist in determining the need for remediation and the type of remediation required for OU 2, OU 3, and Site 27.

STATUS - Comments have been received on the draft Phase II Fate and Transport Modeling Work Plan.

MEDEP has performed independent geochemical modeling.

NEXT ACTION - Respond to comments on the draft Fate and Transport Modeling Work Plan.

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM
STATUS OF WORK
April 23, 1998

SITES 30, GALVANIZING PLANT (BUILDING 184); ;31, WEST TIMBER
BASIN; 32, TOPEKA PIER.

STATUS - Finalized the workplan for Sites 30, 31 and 32.

NEXT ACTION - Perform the field work beginning in June 1998.

ECOLOGICAL RISK ASSESSMENT (ERA) - OFFSHORE

PURPOSE - Evaluate the potential for adverse effects from
contaminants that may have migrated from Shipyard IR Sites to the
offshore.

STATUS - Responded to comments on the Revised Draft Final ERA.

NEXT ACTION - Resolve comments on the Revised Draft Final ERA
at the technical meeting on April 28, 1998.

FEDERAL FACILITY AGREEMENT

PURPOSE - To establish the roles and responsibilities of the
Navy, and EPA and serve as an Interagency Agreement (IAG) for
the completion of all necessary remedial actions at PNS.
Includes development of a Site Management Plan to be used as the
schedule for the IR Program at the Shipyard. CERCLA requires an
IAG to be in place within 180 days after a Record of Decision
(ROD) is signed.

STATUS - FFA negotiations on-going between the EPA and the
Navy.

NEXT ACTION - Update the Site Management Plan.

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM
STATUS OF WORK
April 23, 1998

SITE SCREENING PLAN

PURPOSE - Outlines Site Investigation Process to be performed on new sites to determine if the site should enter the CERCLA Process.

STATUS - Site Screening Plan is finalized.

PHASE I/PHASE II HUMAN HEALTH COMPARISON

PURPOSE - Compare Phase II Seafood data to Phase I Seafood data to determine if a CERCLA Risk Assessment on the Phase II data will be required.

STATUS - Receive comments on Draft Phase I/Phase II Human Health Comparison.

NEXT ACTION - Respond to comments on Draft Phase I/Phase II Human Health Comparison.

HISTORICAL RADIOLOGICAL ASSESSMENT

PURPOSE - Conduct a review of existing information in order to prepare a Preliminary Assessment pursuant to CERCLA to determine if there have been any releases of radionuclides at PNS which should be further investigated or remediated.

STATUS - Responded to comments on the Historical Radiological Assessment.

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM
STATUS OF WORK
April 23, 1998

Document Schedule

Phase I/Phase II Human Health Comparison Comments Due Draft Phase I/II Human Health Comparison	Awaiting Comments
Navy Response to Comments Comments Due	30 days later
DRMO/Incinerator and Site 10 Site Workplan Final Workplan	COMPLETE
DRMO Treatability Workplan Issue Final DRMO Treatability Workplan	Mid June 98
Sites 30, 31, & 32 Workplan Final Workplan	COMPLETE
Ecological Risk Assessment Resolve Comments	Meeting 4/27
Site Screening Plan	COMPLETE
Groundwater Summary Report Issue Draft Report	June 98
Phase II Fate and Transport Modeling Work Plan Issue Response to Comments	June 98
Lead IEUBK Modeling Report for DRMO Impact Area Issue Draft Report	May 98
Risk Assessment Update Issue Tech Memo	Sept 98

INSTALLATION RESTORATION PROGRAM STATUS
PORTSMOUTH NAVAL SHIPYARD
KITTERY, ME

SITE #, SITE NAME	Preliminary Assessment	Site Investigation	No Further Action Decision Document	Engineering Evaluation/Cost Analysis	Action Memorandum	Removal Action	Removal Action Report	Remedial Investigation	Feasibility Study	Proposed Remedial Action Plan	Record of Decision	Remedial Design	Remedial Action	Remedial Action Report	Long Term Operations	Long Term Monitoring	Preliminary Close Out Report	Close Out Report	Notice of Intent to Delete	Site Deletion
5, Industrial Waste Outfalls	●	●						▶												
6, Defense Utilization Marketing Office (DRMO)	●	●						▶												
8, Jamaica Island Landfill	●	●						▶												
9, Mercury Burial Vaults I and II	●	●	⊖	⊖	⊖	▶	▶													
10, Bldg. 238 Battery Acid Tank	●	●						▶												
11, Jamaica Island Waste Oil Tanks	●	●						▶												
12, Bldg 72, Boiler Blowdown Tank	●	●	●					▶												
13, Bldg 76, Rinse Water Tank	●	●	●					▶												
16, Bldg 174, Rinse Water Tank	●	●	●					▶												
21, Bldg 75 Acid/Alkaline Drain Tank	●	●						▶												
23, Bldg 174, Chemical Cleaning Facility Tank	●	●	●					▶												
26, Portable Oil/Water Tanks	●	●						▶												
27, Industrial Area, Berth 6	●	●						▶												
29, Teepee Incinerator Site	●							▶												
30, Bldg 184, Galvanizing Plant	●	▶																		
31, West Timber Basin	●	▶																		
32, Topeka Pier	●	▶																		
Bldg 62	●																			

▶ This phase is underway.

⊖ Applies to Mercury Burial Vault Site I, Site II has not been located.



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

EDWARD O. SULLIVAN
COMMISSIONER

PORTSMOUTH NAVAL SHIPYARD
April 23, 1998 Restoration Advisory Board Meeting
Maine Department of Environmental Protection

Documents Reviewed/Received Since Last RAB Meeting:

DOCUMENT	STATUS	COMMENTS
Final Site Screening Work Plan - Bldg 184, W. Timber Basin, Topeka Pier (Sites 30- 32), April 1998	No comments necessary	Final Document, Navy addressed MEDEP's 2/17/98 comments
Groundwater Data Package for Round 10, March 1998	Under review	
Seep/Sediment Data Package for Round 10, March 1998	Under review	
Final Site Screening Process Plan for Portsmouth Naval Shipyard, March 1998	No comments necessary	Final Document
Final Work Plan, Teepee Incinerator (Site 29) and Bldg. 238 (Site 10), March 1998	No Comments necessary	Final Document
On-Shore/Off-Shore Contaminant Fate and Transport Modeling Draft Ph II Work Plan Response To Comments, Feb. 1998	Comments dated 3/25/98	
Revised Groundwater Data Package for Round 9, Feb. 1998	Reviewed	No comments necessary (errors in original document fixed)
Offshore Estuarine Ecological Risk Assessment, Response to Comments, Feb. 1998	Comments dated 3/9/98	Navy to address all outstanding comments at 4/28 Technical Meeting
Draft Final Site Screening Work Plan, Building 184, W. Timber Basin, Topeka Pier (Sites 30, 31, 32), Jan. 1998	Comments dated 2/17/98	

Meetings Attended:

Remedial Project Managers Meetings: March 3, April 7

Remedial Project Managers Conference Calls: January 26, Feb. 5, March 11, March 16, March 24

Technical Meeting: Offshore Interim Actions, March 5

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