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PRESENTATION AND ATTACHMENTS FOR RESTORATION ADVISORY BOARD MEETING
HELD 22 JANUARY 1998 NSY PORTSMOUTH ME
1/22/1998
PORTSMOUTH NAVAL SHIPYARD

RESTORATION ADVISORY BOARD AGENDA

Date **January 22, 1998**
Place **Howard Johnson's Hotel, Portsmouth, NH**
Time **7 p.m.- 9 p.m.**

Introduction

Status of work

Regulator Update

Operable Unit 3 Update

- **Jamaica Island Landfill**
- **Mercury Burial Vaults I and II**
- **Waste Oils Tanks**

Other issues as required

PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM

OPERABLE UNIT 3

Jamaica Island Landfill,
Mercury Burial Vaults, and
Waste Oil Tanks

Restoration Advisory Board
January 22, 1998

HISTORY

- Site 8, Jamaica Island Landfill (JILF)
 - Covers approx. 25 acres of former tidal mudflat filled from approx. 1945 to 1978.
 - Wastes disposed of include general refuse, trash, construction rubble, incinerator ash, plating sludges, asbestos insulation, waste oil and solvents, spent sandblasting grit, and dredge spoils.

HISTORY (cont'd)

- Site 9, Mercury Burial Vaults MBI and MBII
 - Mercury contaminated waste was buried in two locations within JILF between 1973 and 1975 under 8 to 10 feet of fill.
 - Waste included fluorescent bulbs, thermometers, manometers, mercury switches, rags, brooms, dust pans, and misc. mercury contaminated waste.
 - Concrete pipe removed from MBI in 1994. 3 remaining concrete blocks removed from MBI in 1997.
 - MB II has not been located.

HISTORY (cont'd)

- Site 11, Former Waste Oil Tank (WOT) Nos. 6 and 7
 - Two 8,000 gallon steel tanks (former railroad cars) in use from 1943 to 1989
 - Stored waste oils from shops prior to offsite disposal.
 - No evidence of releases found during 1979 inspection.
 - Passed tightness testing in 1986.
 - Removed in 1989 in accordance with State of Maine Regulations. 332 Tons of soil also removed in 1989.

INVESTIGATIONS

– Field Work

- Geophysical Investigations
 - Magnetometer Surveys,
 - Ground Penetrating Radar (GPR), and
 - Seismic Refraction Survey
- Soil Gas Survey
- Test Pits, Soil Borings, and Monitoring Well Installations
- Soil and Groundwater Samples
- Air Monitoring

RISK ASSESSMENTS

– Ecological Risk Assessments

- Off Shore Risk Assessment (Not Final). Low Risk off shore due to JILF.
- On Shore Risk Assessment. Low Risk on shore due to JILF.

– Human Health Risk Assessments

- Off Shore Risk Assessment. No significant risk due to surface water and sediment.
- On Shore Risk Assessment.
 - Background Risk not differentiated from site related risk
 - Data from RFI Data Gap Study and recent low flow groundwater sampling not included

FUTURE ACTIONS

- Update Risk Assessment
 - Include all information currently available
 - Differentiate between background risk and site related risk
- Perform removal action at Operable Unit (OU) 3
 - Perform magnetometer survey using Multi-Towed Array Device
 - Perform test pits at significant magnetic anomalies
 - Remove MBII

FUTURE ACTIONS

– Investigations

- Perform tests on dredge spoils to determine equivalency to Maine Hazardous Waste Cap
- Determine if Natural Attenuation is occurring at Site 11

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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 is being prepared to provide additional site characterization.

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.

SITE 10, Battery Acid Tank.

A workplan is being prepared to provide additional site characterization.

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 actions.

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

A workplan is being prepared to perform a Site Investigation to determine if these sites should enter the CERCLA Process.

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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 -
Submitted data package for the August 1997 sampling event.

NEXT ACTIONS -
Submit data package for November 1997 sampling event.

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 -
Received comments on Draft Phase II Fate and Transport Modeling Work Plan.
MEDEP is performing independent geochemical modeling.

NEXT ACTION -
Respond to comments on Phase II Fate and Transport Modeling Work Plan.

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

STATUS - Submitted draft final workplan for sites 30, 31, and 32.

NEXT ACTION -
Receive comments on draft final workplan.

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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

Received comments on Revised Draft Final ERA.

NEXT ACTION -

Provide responses to comments on Revised Draft Final ERA.

FEDERAL FACILITY AGREEMENT

PURPOSE - To establish the roles and responsibilities of the Navy, EPA and MEDEP 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.

NEXT ACTION - Begin FFA negotiations in January, 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

Comments received on Draft Site Screening Plan from EPA, MEDEP, and the RAB.

NEXT ACTION -

Submit Draft Final Site Screening Plan and respond to comments on Draft Final Site Screening Plan.

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.

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STATUS -
Received 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 - Received comments on Historical Radiological Assessment.

NEXT ACTION - Respond to comments on Historical Radiological Assessment.

Mercury Burial Vault Removal Action Report

Purpose - Document work performed during removal of mercury burial vaults at MBI.

Status - Submitted Draft Removal Action Report for comments.

Next Action - Respond to comments on Draft Removal Action Report.

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Document Schedule

Phase I/Phase II Human Health Comparison Navy Response to Comments Comments Due	mid Feb 98
DRMO/Incinerator and Site 10 Site Workplan Respond to Comments on Draft Final Workplan Final Workplan	mid Feb 98
DRMO Treatability Workplan Issue Final DRMO Treatability Workplan	late Jan 98
Sites 30, 31, & 32 Workplan Receive comments on Draft Final workplan	20 Feb 98
Ecological Risk Assessment Respond to comments	late Jan 98
Site Screening Plan Draft Final Site Screening Plan	mid Feb 98
MBI Removal Action Report Comments due on draft report	6 Feb 98

**EPA UPDATE
PORTSMOUTH NAVAL SHIPYARD
RESTORATION ADVISORY BOARD MEETING
JANUARY 22, 1998**

Jamaica Island Landfill

EPA continuing discussions with Navy and DEP to identify remedial action objectives and possible interim actions. EPA has requested that risk assessment information be updated (using most recent available data) and summarized. This information is necessary to assess and develop appropriate remedial action objectives (goals of any future remedial actions) for the feasibility study stage of the process.

Federal Facility Agreement

EPA, Navy and State of Maine (DEP and Attorney General's Office representative) met in December to discuss latest version of FFA which includes new model language developed by EPA and the Navy (nationally) on funding/scheduling. In that meeting, the State of Maine indicated that they could not support the basis for some of the model language regarding funding/priority setting, and that they did not intend to enter FFA negotiations at this time. The CERCLA statute requires that only EPA and the Navy enter into an Interagency Agreement (IAG)/FFA. Therefore, EPA and the Navy will begin negotiations on a two-party FFA in January 1998 (First sessions January 28 and 29, 1998).

Historical Radiological Assessment

Comments submitted to Navy - November 14, 1997

No major concerns identified by EPA. Information consistent with results of surveys performed by EPA in 1979 and 1989. EPA also performed survey in 1997. At last RAB meeting, RAB member asked when results of this survey would be available. According to our Montgomery Lab, sample analysis scheduled to be complete in February 1998. Report likely to be complete sometime in 1998, however no specific date available yet.

Phase I/II Offshore Data Comparative Analysis Report

EPA comments submitted January 14, 1998. In general, EPA does not feel that there would be a significant change in overall risk if a new risk evaluation were performed. Noted differences between Phase I and Phase II were:

- Detection of methyl mercury in Phase II (not analyzed in Phase I);
- Increase in PAH levels in mussels;
- Different assumptions regarding bioavailability of arsenic (Phase I-100%, Phase II-10%).

EPA will assess the implications of these issues after reviewing Navy's response to comments.