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NAS SOUTH WEYMOUTH
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RESTORATION ADVISORY BOARD (RAB) UPDATE FOR SEPTEMBER 2015 NAS SOUTH
WEYMOUTH MA (PUBLIC DOCUMENT)
09/01/2015
RESOLUTION CONSULTANTS



Former Naval Air Station South Weymouth Restoration Advisory Board (RAB) Update September 2015

Installation Restoration Program (IRP) Sites

Building 81 – The Record of Decision (ROD) was signed on September 30, 2014. The ROD selected remedy for Building 81, shown in the figure below, includes the following components:

- In-situ (Overburden and Bedrock Source Area) Enhanced Bioremediation
- Bio-barriers
- Monitored Natural Attenuation (MNA)
- Land Use Controls (LUCs)
- Five-Year Reviews (as needed)

The Draft Remedial Design (RD)/Remedial Action Work Plan (RAWP) to implement the remedy was submitted to EPA in early April 2015. In advance of the Remedial Action, Navy is conducting an investigation to evaluate the influence that subsurface utilities may have on the migration of contaminants at the site.



Building 82 – In April 2014 the Navy completed in situ chemical oxidation (ISCO) injections (using potassium permanganate) in the pilot study area.

Results of the October 2014 post-injection groundwater sampling indicated that TCE concentrations were reduced by the pilot test injection program. Additional post-injection groundwater sampling events were conducted in March 2015 and July 2015. Results of the 2015 sampling events indicate TCE concentrations in the immediate pilot study area increased to concentrations similar to those existing before the pilot study. However, the data did indicate that natural attenuation is occurring in areas outside of the pilot study. The Navy is currently considering expanding the selected remedy to include monitored natural attenuation.

Rubble Disposal Area (RDA) –The Navy completed installation of a landfill gas mitigation project to reduce concentrations of methane gas adjacent to the landfill footprint in Fall 2013. The landfill gas mitigation system was monitored monthly during 2014 to evaluate the performance. The mitigation system has been effective in reducing methane levels; however, there are still some areas with elevated methane levels. A Completion Report has been prepared to document the corrective action.

Sewage Treatment Plant (STP)

The on-site remedial actions at the STP are complete and the wetland restoration work is being monitored. A Draft Feasibility Study, Draft Proposed Remedial Action Plan (PRAP), and Draft Record of Decision (ROD) Amendment have been submitted for review. The draft PRAP proposes to add Land Use Controls (LUCs) and Long Term Monitoring (LTM) to the remedy. The LUCs will restrict access to subsurface soil below 9 feet bgs in the upland area and below two feet bgs in the wetland, requiring proper management of the soil. The LUC would also restrict detached single family residential land use on the parcel. LTM of groundwater and sediment will be conducted to verify that groundwater and sediment do not become impacted from the disturbances caused by the implementation of the remedy. The initial groundwater monitoring event will also be used to assess the potential for vapor intrusion in future buildings.



STP Remedial Action Area following restoration.

Small Landfill – The most recent sampling event was completed in September 2015 and the next event is scheduled for March 2016. The landfill will be mowed in November 2015.

Solvent Release Area – The first phase of Target Treatment Zone (TTZ) bioremediation injections were completed in June 2015. Results of the post-injection monitoring conducted in July 2015 indicated that the bioremediation amendments were successfully distributed to the TTZ. Post-injection monitoring will be conducted for approximately one year to evaluate the efficacy of the injections on reducing tetrachloroethylene concentrations in the TTZ. A Draft RD for the Permeable Reactive Barrier (PRB) walls was submitted in September 2014 and will be finalized in 2015. The PRBs are scheduled to be installed during the summer of 2016. Additionally, a Land Use Control Implementation Plan (LUCIP) has been submitted and is under discussion.

West Gate Landfill – The most recent sampling event was completed in September 2015 and the next event is scheduled for December 2015. Tree saplings were treated in late May with an insecticide to prevent winter moth damage. The trees will be evaluated in late September to evaluate the viability of the saplings.

**SUMMARY STATUS
CERCLA SITES AT FORMER NAS SOUTH WEYMOUTH**

CERCLA Status	Remedial Investigation	Feasibility Study	Proposed Plan/Record of Decision (ROD)	Remedial Design/ Remedial Action	Post-ROD Long-Term Monitoring (LTM)
West Gate Landfill					X
Rubble Disposal Area					X
Small Landfill					X
Sewage Treatment Plant				X	
Building 81				X	
Building 82				X	
Solvent Release Area				X	
Hangar 1	X				
Industrial Operations Area			X		

Environmental Baseline Survey (EBS) Sites

- AOC 55C – Wetland evaluation and wetland species monitoring is continuing. Tree saplings were treated in late May with an insecticide to prevent winter moth damage. The trees will be evaluated in late September to evaluate the viability of the saplings. Manual removal of the invasive species Multiflora Rose was also conducted in May 2015.

- RIA 11 (AFFF) –The third round of LTM sampling was conducted in March/April 2015 and the fourth round is planned for October 2015. A Remedial Investigation Work Plan to further evaluate the nature and extent of perfluorinated compounds (PFCs) at the Hangar 1 site (Aquifer Protection District Parcel) was submitted to EPA and MassDEP in November 2014 and will be finalized in 2015.
- RIA 111 (Old Hangar 2) – A work plan for additional investigations is the next action for this site.
- Industrial Operations Area (IOA) – Additional actions are required for soil. The ROD will be issued in late September 2015. The selected remedy shown in the figure below includes the following components:
 - Pre-excavation soil sampling (to better define areas to be excavated).
 - Site clearing (i.e. removal of asphalt/pavement from areas to be excavated).
 - Excavation of soil with contaminants of concern exceeding Remedial Goals.
 - Post-excavation confirmatory sampling (to confirm achievement of Remedial Action Objectives).
 - Off-site transport and disposal of contaminated soils at a licensed facility.
 - Site restoration.



Massachusetts Contingency Plan (MCP) Sites

There are currently no active MCP Sites at the Former NAS South Weymouth.

Finding of Suitability to Transfer (FOST)

FOST 6A –The Navy, MassDEP, EPA and SRA have reached agreement on the use of a Grant of Environmental Restriction and Easement (GERE) at the former NAS South Weymouth. The Navy had taken out the West Gate Landfill from FOST 6A and has re-issued for regulatory review FOST 6A1 that now only includes AOC 55C, Small Landfill, and the Main Gate Encroachment Area. FOST 6A1 has been signed by the Navy and this property is pending transfer to the LRA. The West Gate Landfill will be incorporated into FOST 6A2. A Notice of Activity and Use Limitation (NAUL) will be recorded for the West Gate Landfill.

FOST 4 & 5A Addendum –An Addendum to FOST 4 and 5A to update and address the parcels that were held back from transfer due to the previously unresolved considerations from the presence of perfluorinated compounds (PFCs) at the FFTA has been signed by the Navy and the parcels are now suitable for transfer. The “Hold Back” parcels at the FFTA area, approximately 8.8 acres, will be transferred to the Southfield Redevelopment Authority (SRA) shortly.

Please feel free to contact Dave Barney, BRAC Environmental Coordinator, at 617-753-4656 (or by email at david.a.barney@navy.mil), or stop by the Caretaker Site Office if you have any questions or concerns related to this memo or any restoration activities.