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Department of the Navy Public Works Department NAS Whiting Field

7151 USS Wasp Street
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Next Scheduled Restoration Advisory Board Meeting

Tuesday, November 19, 2002

NAS Whiting Field
Public Works Building 1418
7151 USS Wasp Street
Milton, FL 32570-6159



Whiting Field Progress Report

Installation Restoration Program

Volume 1, Number 6

September 2002

Public Works Department

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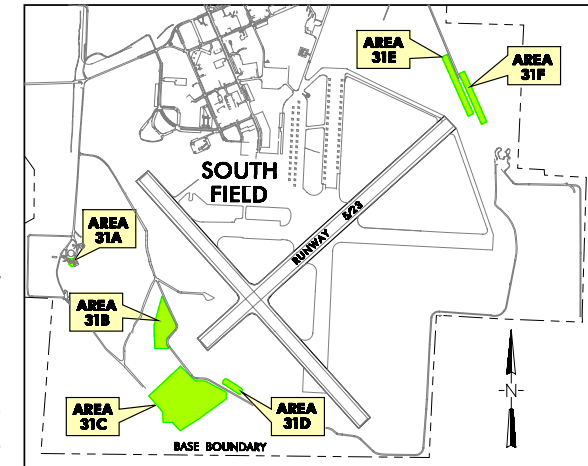
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Final Remedy Selected for Surface and Subsurface Soil at Site 31

A Record of Decision has been signed documenting No Further Action for surface and subsurface soil at NAS Whiting Field Site 31, Sludge Beds and Disposal Areas.

Site 31 includes six areas: the sludge drying beds located near the former Wastewater Treatment Plant (Area 31A); three disposal areas along the perimeter road, near the south end of Runway 5/23 (Areas 31B, 31C, and 31D); and two sludge disposal areas along the perimeter road, northeast of Runway 5/23 (Areas 31E and 31F).



Site 31 Location Map

Data collected during the Remedial Investigation indicated only Area 31C had contaminants in soil exceeding standards set by USEPA or FDEP for residential areas. An Interim Removal Action was performed at Area 31C to remove and dispose of the contaminated soil. Interim Removal Action activities consisted of sampling to identify all areas of contamination, excavating and off-site disposal of contaminated material, confirmation sampling, and backfilling and vegetation of excavated areas. A total of 1,635 cubic yards of contaminated soil was excavated and disposed from Area 31C.

All areas of contaminated soil exceeding regulatory standards were removed. Therefore, based on the Remedial Investigation, Interim Removal Action, and review of the data from the facility and surrounding area, a No Further Action ROD for surface and subsurface soil for Site 31 was prepared and signed.

With the signing of this ROD, Site 31 became the 13th Installation Restoration Program site at NAS Whiting Field to have a final remedy selected.

This progress report is produced by NAS Whiting Field to keep you informed about the Installation Restoration Program at NAS Whiting Field.



Area 31C – Before Soil Removal



Area 31C – During Soil Removal



Area 31C – After Soil Removal

Installation Restoration Program

The U.S. Navy has initiated an Installation Restoration Program (IRP) nationwide to identify, investigate, and, if necessary, clean up contamination at Navy installations, including NAS Whiting Field. Contamination may have resulted from hazardous materials handling practices or accidental spills. In the majority of cases, the releases occurred before laws were passed regulating hazardous materials handling and disposal or before it was known that these practices posed potential problems.

To date, the Navy has identified 29 sites at NAS Whiting Field where various potentially hazardous materials may have been handled or disposed. IRP sites identified at NAS Whiting Field and their current status are listed in the table on page 3 and their location is shown on the map on page 4.

Site Activities Update

Site 4 Remediation Pilot Study Update

Site 4 is a former underground storage tank facility located north of Tow Lane at North Field. As part of a pilot study, five solar remediation systems (SRSs) were installed at the site to perform soil vapor extraction and bioventing. This treatment uses solar power to pull soil gas from the petroleum-contaminated soil and to enhance native microorganisms degradation of organic constituents adsorbed to soils.



Solar Remediation System Unit

The SRS units have been operating at Site 4 since September 2001. Treatment began in the shallow zone, and then continued through to the intermediate and deep zones. Downhole monitoring has been conducted continuously for a year collecting temperature, oxygen and pressure readings. Additionally, off gas air samples have been collected as well as soil samples to measure the effectiveness of the systems.

To date, approximately 500 pounds of contaminants have been removed through soil vapor extraction and bioventing at the site. The pilot test will be completed at the end of October 2002.

A Pilot Study Completion Report will be prepared at the end of the study and will provide results of the treatment and a cost analysis of using the SRS compared to more conventional remediation. If the treatment is successful, SRS may be used as the final remedial action for Site 4 and for other sites at Whiting Field.

UST Site 2894, Remediation Update

Site 2894 is a bulk fuel storage facility including Building 2894 (pumphouse), two aboveground storage tanks, and a truck fill stand. In 1991, a release was detected from an underground fuel transfer line.



UST Site 2894

A contamination assessment completed in 1993 revealed an extensive JP-5 plume beneath the site. Excessively contaminated soil was identified to a depth of approximately 85 feet below land surface (bls), over an area approximately 170 by 200 feet. Three zones of soil contamination were identified at the site. The shallow zone extends from the surface to 15 feet bls. The intermediate zone extends from 15 to 25 feet bls. The deep zone extends from 25 to 85 feet bls. No significant groundwater contamination was detected during the assessment.

The remediation system consisting of an active bioventing system to address the soil contamination in the shallow zone and a passive barometric pumping system to address the soil contamination in the deep zone began operation in November 1997. In December 1999, after petroleum hydrocarbon concentrations in the



Barometric Pumping Well

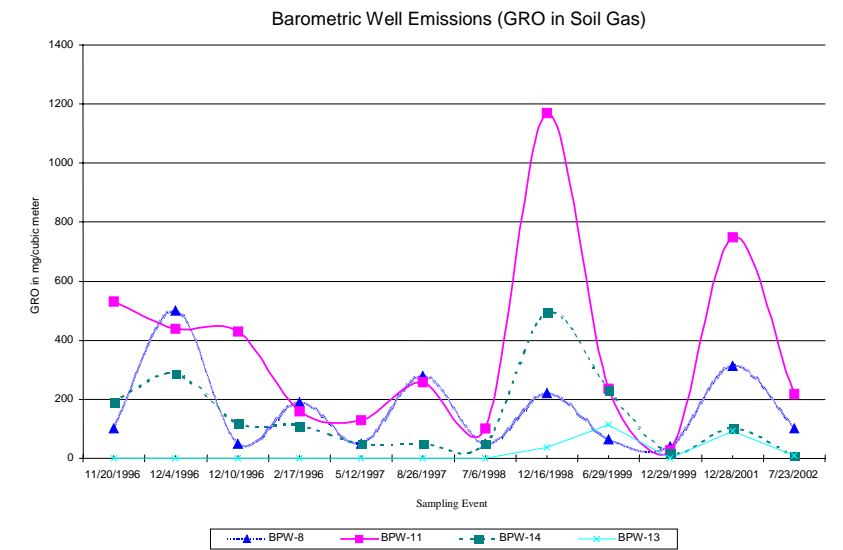
shallow zone declined below regulatory levels, operation of the bioventing system was discontinued. Barometric pumping is an in situ passive bioventing technology using vent wells left open to the atmosphere. These wells allow pressure gradients, caused by short-term daily changes and long-term weather front changes, to inject and

UST Site 2894

(Continued From Page 2)

extract air from the vadose zone. This movement of air through the vadose zone encourages natural biologic processes to break down organic contaminants.

The barometric pumping system continues to operate to address soil contamination in the deep zone. Gasoline range organic (GRO) emissions from barometric pumping wells demonstrate the system continues to remove petroleum hydrocarbons from deep zone soils.



Land Use Controls (LUCs)

LUCs are a type of remedial action where restrictions are used to protect human health by limiting exposure to contaminated media such as soils, surface water or groundwater. LUCs offer a safe, simple, and inexpensive alternative for managing low-risk sites. LUCs can include access control such as warning signs or fences, prohibitive directives to prevent activities such as digging or drilling, or institutional controls such as comprehensive plan notations.

A Memorandum of Agreement (MOA) signed by the Navy, USEPA, and FDEP on November 4, 1999, established the foundation for management of LUCs at NAS Whiting Field. The MOA requires site-specific implementation plans, routine monitoring, and close coordination with regulatory agencies.

Site inspections are conducted annually to ensure compliance with the LUCs.

Prior to implementation of LUCs at any site, Proposed Plans are submitted to the regulatory agencies to present these controls as the final remedy. After the agencies' comments are incorporated, a public comment period is held to solicit community feedback on the proposed remedial action described in the Proposed Plan. When regulatory and community concerns have been addressed, LUCs are implemented in accordance with the MOA and the individual site plan requirements. LUCs are currently being evaluated as the potential remedy for numerous sites at NAS Whiting Field.



Five-Year Review for Sites 1 and 2

NAS Whiting Field has started the Five-Year Review process for Site 1, Northwest Disposal Area, and Site 2, Northwest Open Disposal Area. The final remedy for both Sites 1 and 2 is Land Use Controls restricting use of the sites to nonresidential activities involving less than full-time human contact with surface and subsurface soil. The purpose of the five-year review is to evaluate the implementation and performance of the selected remedy to assure protection of human health and the environment.



Site 1, Northwest Disposal Area



Site 2, Northwest Open Disposal Area

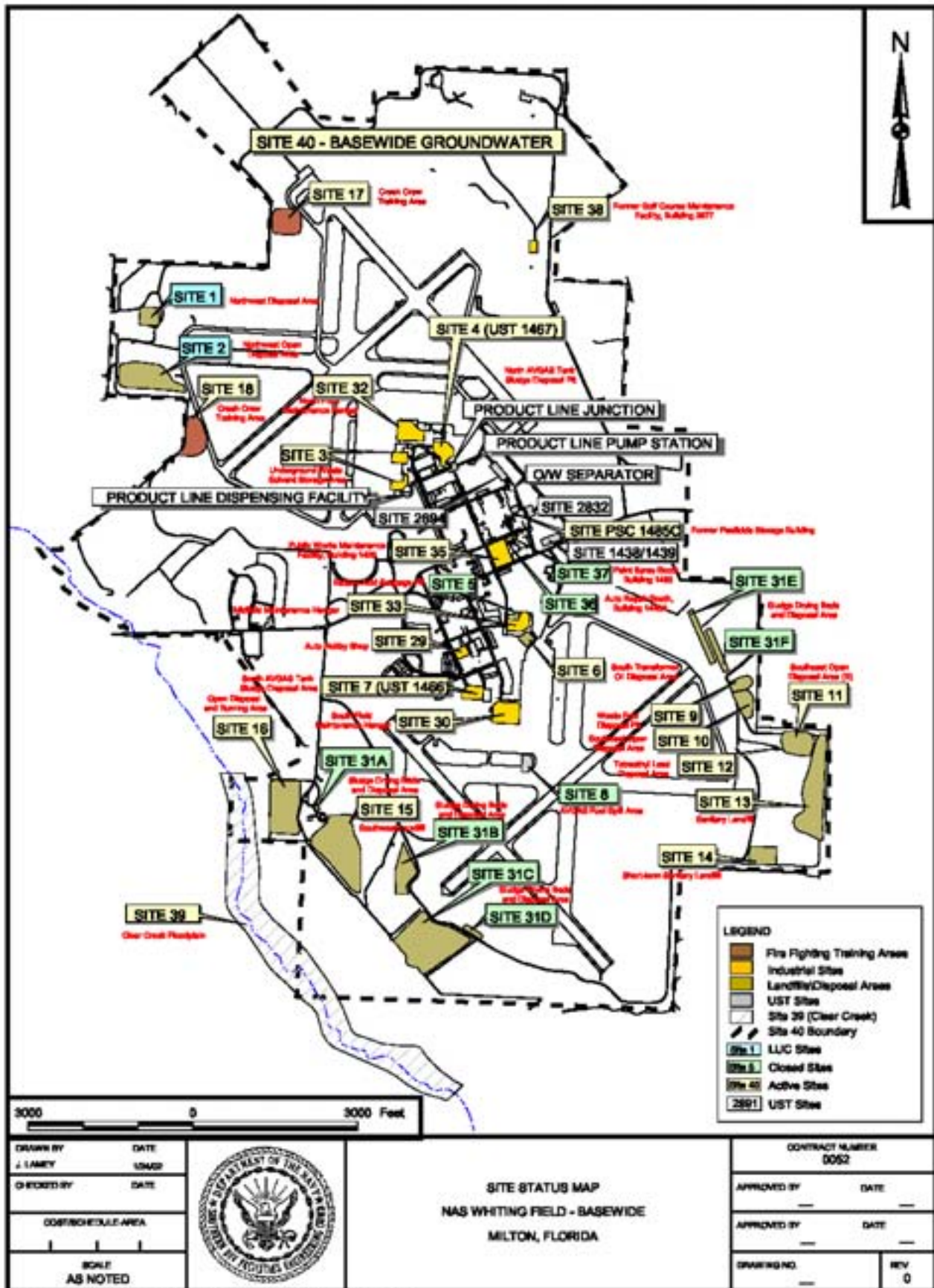
The Five-Year Review is being performed in accordance with Comprehensive Environmental Response, Compensation, and Liability Act, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA). SARA requires remedial actions resulting in any hazardous substances, pollutants, or contaminants remaining at the site above levels allowing for unlimited use and unrestricted exposure be reviewed at least every five years.

The Five-Year Review process is scheduled to be completed for Sites 1 and 2 by the end of September 2003.

**NAS WHITING FIELD
IRP SITE STATUS**

Site No.	Site Name	Material Disposed of or Released	Status
1	Northwest Disposal Area	Refuse, waste paints, thinners, solvents, waste oils, and hydraulic fluids	Remedy Selected - LUCs
2	Northwest Open Disposal Area	Construction and demolition debris, tires, and furniture	Remedy Selected - LUCs
3	Underground Waste Solvent Storage Area	Waste solvents and paint stripping residue	Pending - LUCs
4	North AVGAS Tank Sludge Disposal Area	Tank bottom sludge containing tetra ethyl lead	Pending - LUCs Soil Venting Pilot Study
5	Battery Acid Seepage Pit	Waste electrolyte solution containing heavy metals and waste battery acid	Site closed - No action
6	South Transformer Oil Disposal Area	PCB-contaminated dielectric fluid	Pending - LUCs
7	South AVGAS Tank Sludge Disposal Area	Tank bottom sludge containing tetra ethyl lead	Under investigation
8	AVGAS Fuel Spill Area	AVGAS containing tetra ethyl lead	Site closed - No Action
9	Waste Fuel Disposal Area	Waste AVGAS containing tetra ethyl lead	Decision pending - Soil Removal Action
10	Southwest Open Disposal Area A	Construction and demolition debris, waste solvents, paints, oils, hydraulic fluid, PCBs, pesticides, and herbicides	Decision pending - Soil removal action
11	Southwest Open Disposal Area B	Construction and demolition debris, waste solvents, paints, oils, hydraulic fluid, and PCBs	Decision pending
12	Tetra ethyl Lead Disposal Area	Tank bottom sludge and fuel filters contaminated with tetra ethyl lead	Decision pending
13	Sanitary Landfill	Refuse, waste solvents, paints, hydraulic fluid, and asbestos	Decision pending
14	Short-Term Sanitary Landfill	Refuse, waste solvents, oils, paint, and hydraulic fluids	Decision pending
15	Southwest Landfill	Refuse, waste paints, oils, solvents, thinners, asbestos, and hydraulic fluids	Decision pending - Soil removal action
16	Open Disposal and Burning Area	Refuse, waste paints, oils, solvents, thinners, PCBs, and hydraulic fluids	Decision pending - Soil removal action
17	Crash Crew Training Area	JP-5 fuel	Decision pending - Soil removal action
18	Crash Crew Training Area	JP-5 fuel	Decision pending - Soil removal action
29	Auto Hobby Shop	Auto repair, maintenance, and painting materials	Under investigation
30	South Field Maintenance Hangar	Aircraft maintenance materials	Pending - LUCs
31	Sludge Drying Beds and Disposal Area	Wastewater treatment sludge	Site closed - No Action
32	North Field Maintenance Hangar	Aircraft maintenance materials	Pending - LUCs
33	Midfield Maintenance Hangar	Aircraft maintenance materials	Pending - LUCs
35	Public Works Maintenance Facility	Fuel, oil, and solvents	Under investigation
36	Auto Repair Booth	Oil, grease, fuel, and solvents	Site closed - No Action
37	Paint Spray Booth	Paint and solvents	Site closed - No Action
38	Former Golf Course Maintenance Building	Solvents, oil, pesticides, and metals	Under investigation
39	Clear Creek Floodplain	Suspected solvents, oil, and fuel	Under investigation
40	Basewide Groundwater	Solvents and fuel	Under investigation

1. Sites 19-28 are in the OLF Barin IRP.
2. There is no Site 34.
3. AVGAS is a common aviation fuel.
4. LUCs = Land Use Controls
5. PCB = Polychlorinated Biphenyl



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