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FINAL RECORD OF DECISION FOR SITE 38 NAS WHITING FIELD FL
9/16/2005
TETRA TECH NUS

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-94-D-0888



Rev. 1
09/16/05

Record of Decision for Surface and Subsurface Soils at Site 38, Building 2877, Former Golf Course Maintenance Building

**Naval Air Station Whiting Field
Milton, Florida
USEPA ID No. FL2170023244**

Contract Task Order 0079

September 2005



Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

**RECORD OF DECISION
FOR
SURFACE AND SUBSURFACE SOILS AT
SITE 38 – BUILDING 2877, FORMER GOLF COURSE MAINTENANCE BUILDING**

**NAVAL AIR STATION WHITING FIELD
MILTON, FLORIDA
USEPA ID No. FL2170023244**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406**

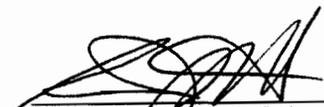
**Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220**

**CONTRACT NO. N62467-94-D-0888
CONTRACT TASK ORDER 0079**

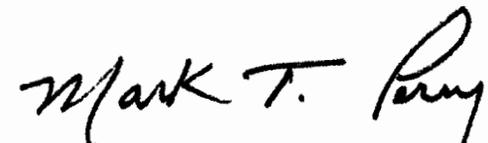
SEPTEMBER 2005

PREPARED UNDER THE SUPERVISION OF:

APPROVED FOR SUBMITTAL BY:



**TERRY HANSEN, P.G.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
TALLAHASSEE, FLORIDA**



**DEBRA M. HUMBERT
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA** for



CERTIFICATION OF TECHNICAL DATA CONFORMITY

The Contractor, Tetra Tech NUS, Inc., hereby certifies, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-94-D-0888 are complete, accurate, and comply with all requirements of this contract. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice.

DATE: 30 September 2005

NAME AND TITLE OF CERTIFYING OFFICIAL: 
Terry Hansen, P.G.
Task Order Manager

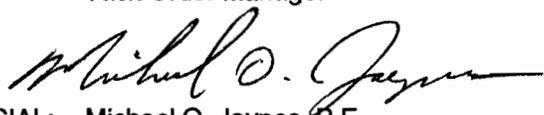
NAME AND TITLE OF CERTIFYING OFFICIAL: 
Michael O. Jaynes, P.E.
Task Technical Lead

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ACRONYMS

CCI	CH2M Hill Constructors, Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	constituent of concern
COPC	constituents of potential concern
DPT	Direct Push Technology
ERA	ecological risk assessment
EE	Envirodyne Engineers, Inc.
F.A.C.	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDER	Florida Department of Environmental Regulation
FS	Feasibility Study
ft	Feet/foot
GCTLs	Groundwater Cleanup Target Levels
HHRA	human health risk assessment
IAS	Initial Assessment Study
IR	installation restoration
IRA	Interim Removal Action
NAS	Naval Air Station
Navy	United States Navy
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NPL	National Priorities List
PCB	polychlorinated biphenyl
PRGs	Preliminary Remediation Goals
RA	remedial action
RI	Remedial Investigation
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SCTLs	Soil Cleanup Target Levels
SERA	screening ecological risk assessment
SPLP	Synthetic Precipitate Leaching Procedure
SVOCs	Semi Volatile Organic Compounds
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 DECLARATION OF THE RECORD OF DECISION

1.1 SITE NAME AND LOCATION

Naval Air Station (NAS) Whiting Field is located approximately 5.5 miles north of the town of Milton, Florida in Santa Rosa County, about 25 miles northeast of Pensacola (Figure 1-1). Site 38, Building 2877 or the Former Golf Course Maintenance Building, is located immediately west of the 7th hole fairway on the NAS Whiting Field Golf Course at NAS Whiting Field, Milton, Florida.

1.2 STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedy for Site 38 as No Further Action (NFA) for surface and subsurface soils. As a result of the selected remedy, no action is required under a nonresidential / recreational land use scenario and unlimited exposure and unrestricted use of surface and subsurface soils will be allowed at Site 38. Groundwater at NAS Whiting Field has been identified as a separate site (Site 40, Basewide Groundwater) and will be addressed in a future decision document. The selected action was chosen by the United States Navy (Navy) and the United States Environmental Protection Agency (USEPA) in accordance with the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). Information supporting the selection of this action is contained in the Administrative Record for this site. The NAS Whiting Field Information Repository, including the Administrative Record, is located at the West Florida Regional Library, Milton Branch, 805 Alabama Street, Milton, Florida 32570, (850) 623-5565.

The Florida Department of Environmental Protection (FDEP) concurs with the selected remedy.

1.3 ASSESSMENT OF THE SITE

The Remedial Investigation (RI) for Sites 05, 7, 29, 35, and 38 [Tetra Tech NUS, Inc. (TtNUS), 2005a] identified one volatile organic compound (VOC), six pesticides, total recoverable petroleum hydrocarbons (TRPH), and 17 inorganics in the surface soil and 18 inorganics in the subsurface soil at Site 38. No constituents of potential concern (COPCs) were identified in the RI and, as a result, no human health risks were identified in the risk assessment for exposure to surface and subsurface soils at Site 38 under a residential land use scenario. A summary of site risks is provided in Section 2.6 of this Record of Decision (ROD).

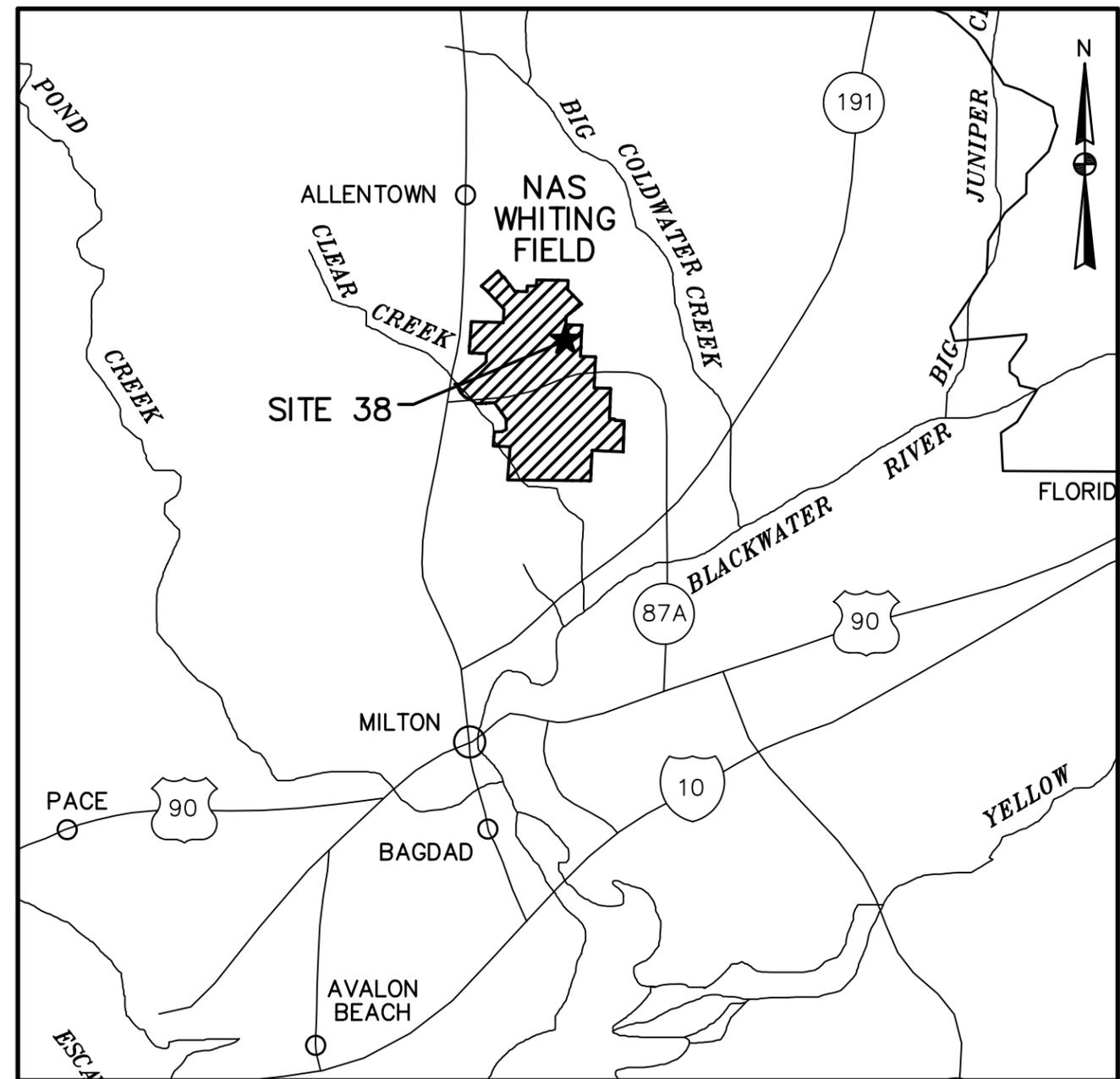
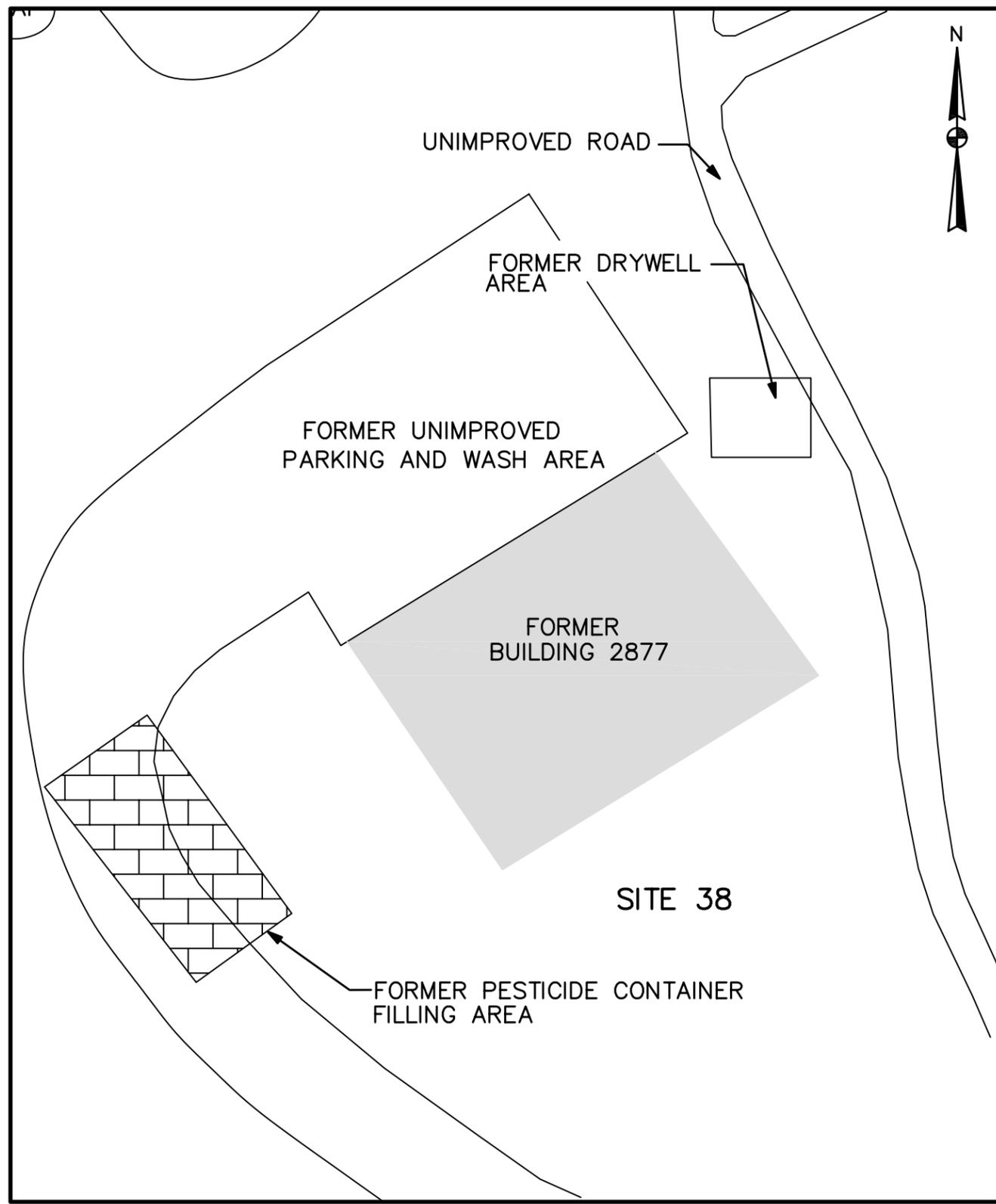


FIGURE 1-1
 SITE 38 LOCATION AND AREA MAP
 RECORD OF DECISION
 NAS WHITING FIELD, MILTON, FLORIDA



The results of the ecological risk assessment (ERA) presented in the RI indicate ecological risks at the site are acceptable, and further ecological study is unwarranted because the site is limited in the quantity and quality of habitat. Site 38 is characterized by a building, grassy (turfgrass) areas, and a parking lot.

As a result of the moderate human activity and vehicle noise, terrestrial wildlife is deterred from using the site. Most importantly, the limited size and habitat of the site serves to restrict the amount of food available to upper trophic level organisms. A discussion of the potential ecological risk is presented in Section 2.6.2.

1.4 DESCRIPTION OF THE SELECTED REMEDY

This ROD presents the final action for surface and subsurface soils at Site 38 and is based on results of the RI (TtNUS, 2005a), and the Feasibility Study (FS) (TtNUS, 2005b). The selected remedy for Site 38 is NFA for surface and subsurface soils and ensures protection of human health and the environment. No action is required under a residential land use scenario and unrestricted use and unlimited exposure of surface and subsurface soils will be allowed at Site 38.

This ROD only addresses surface and subsurface soil at Site 38. Consequently, this ROD does not address actual or potential groundwater contamination at the site. Groundwater at NAS Whiting Field has been identified as a separate site (Site 40, Basewide Groundwater) and will be addressed in a future decision document. Sediment and surface water are not present at Site 38. Current soil conditions at Site 38 are protective of human health and the environment under an unrestricted use, unlimited exposure scenario; therefore, no further CERCLA action for surface and subsurface soils is necessary.

1.5 STATUTORY DETERMINATIONS

The NFA remedy selected for surface and subsurface soils at Site 38 is protective of human health and the environment under a residential land use scenario, complies with federal and state requirements legally applicable or relevant and appropriate, and is cost effective. Consequently, no remedial action (RA) is necessary to ensure protection of human health and the environment based on an unlimited exposure, unrestricted use scenario at Site 38.

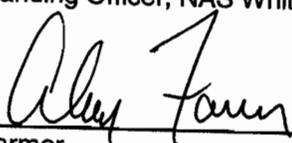
1.6

AUTHORIZING SIGNATURES



Joan Platz
Captain, United States Navy
Commanding Officer, NAS Whiting Field

22 Sep 2005
Date



Alan Farmer
Acting Director, Waste Management Division
USEPA, Region IV

9/27/05
Date

2.0 DECISION SUMMARY

2.1 SITE NAME, LOCATION, AND DESCRIPTION

Site 38, Building 2877 or the Former Golf Course Maintenance Building, is located immediately west of the 7th hole fairway on the NAS Whiting Field Golf Course at NAS Whiting Field, Milton, Florida (Figure 2-1). NAS Whiting Field presently consists of two airfields (North and South Fields) and serves as a naval aviation training facility providing support facilities for flight and academic training.

2.2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

2.2.1 NAS Whiting Field History

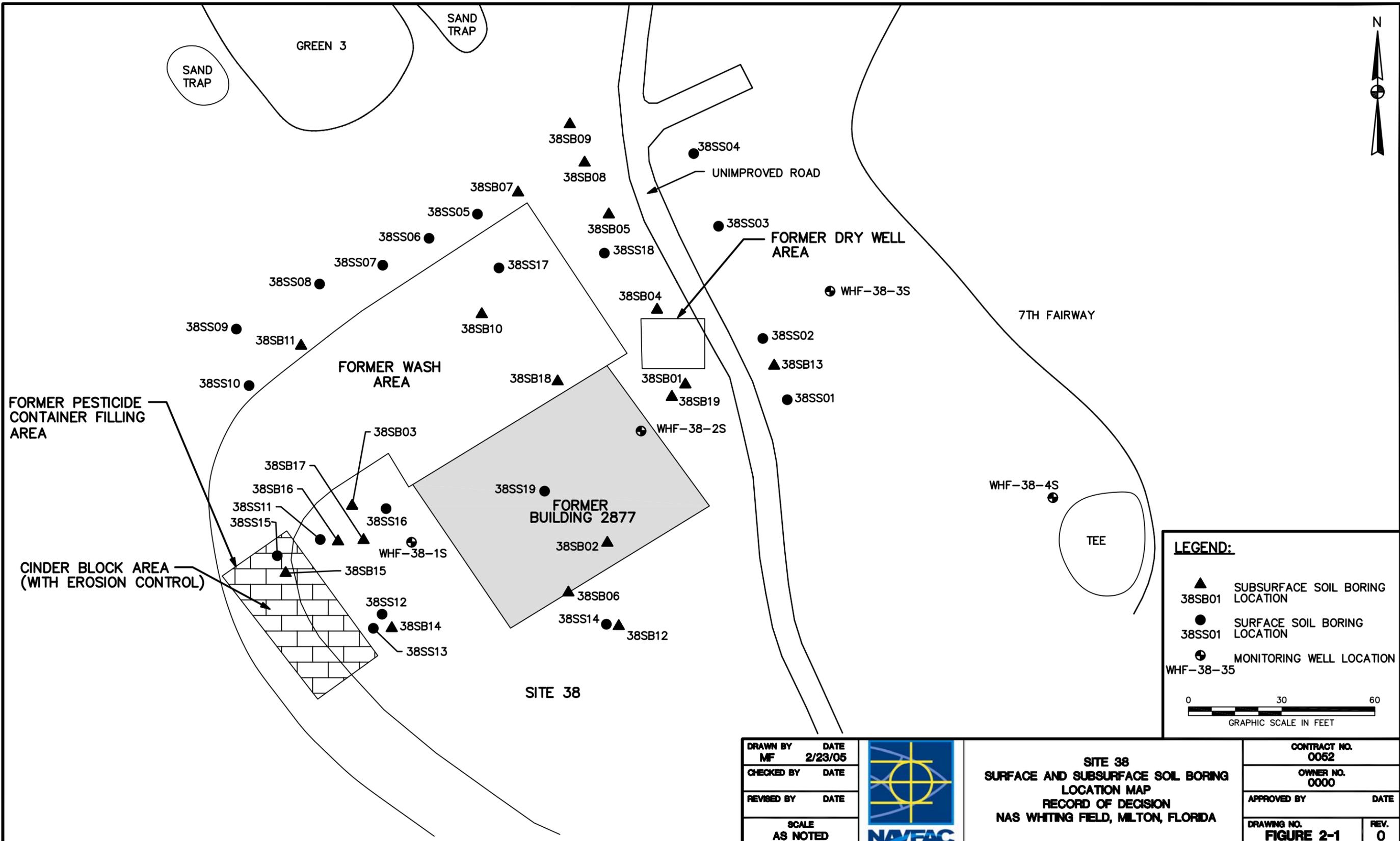
NAS Whiting Field was placed on the National Priorities List (NPL) by the USEPA in June 1994. Following the listing of NAS Whiting Field on the NPL, remedial response activities have been conducted pursuant to CERCLA authority.

The first environmental studies for the investigations of waste handling and/or disposal sites at NAS Whiting Field were conducted during the Initial Assessment Study (IAS) (Envirodyne Engineers, Inc. (EE), 1985). The record search indicated throughout its years of operation, NAS Whiting Field generated a variety of wastes related to pilot training, operation and maintenance of aircraft and ground support equipment, and facility maintenance programs.

2.2.2 Site 38 History

Site 38, Building 2877 or the Former Golf Course Maintenance Building, is located immediately west of the 7th hole fairway on the NAS Whiting Field Golf Course (Figure 2-1). The site includes the former site of Building 2877, located approximately 276 feet (ft) west of the patrol road and 860 ft north of the white lattice fence associated with the pistol firing range. Building 2877 was used as the golf course maintenance building. Review of historical aerial photographs indicates the building was present in June 1954 during the construction of the NAS Whiting Field Golf Course.

Reportedly, golf cart battery reconditioning was conducted at the building. The battery acid was drained into a sink inside the building. The sink subsequently drained into a tank consisting of an underground concrete culvert open at one end. The tank retained approximately 50 gallons of liquid before draining to the subsurface soil. The tank



LEGEND:

- ▲ SUBSURFACE SOIL BORING LOCATION
38SB01
- SURFACE SOIL BORING LOCATION
38SS01
- ⊕ MONITORING WELL LOCATION
WHF-38-35

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GRAPHIC SCALE IN FEET

DRAWN BY	DATE
MF	2/23/05
CHECKED BY	DATE
REVISD BY	DATE
SCALE	AS NOTED



SITE 38
SURFACE AND SUBSURFACE SOIL BORING
LOCATION MAP
RECORD OF DECISION
NAS WHITING FIELD, MILTON, FLORIDA

CONTRACT NO. 0052	
OWNER NO. 0000	
APPROVED BY	DATE
DRAWING NO. FIGURE 2-1	REV. 0

was filled with rock sometime between 1974 and 1979, resulting in the discontinuance of battery acid draining at Site 38.

Pesticides including organophosphates, herbicides, fungicides, chlordane, heptachlor epoxide, and some hydrocarbon pesticides were also stored and handled in Building 2877 during operations. Pesticide storage was discontinued in 1983 when a new pesticide facility was completed. A small parking area approximately 200-ft by 200-ft north of the building and across the access road was used to rinse trucks after they were used to spray pesticides. A 200-ft by 200-ft area located southwest of the building was used to fill pesticide containers. Possible wastes associated with the site include battery acid, fuels, solvents, and pesticides.

Building 2877 was demolished in 1993 as part of an upgrading and reconstruction project for the NAS Whiting Field Golf Course. Based on site investigations the concrete building foundation is believed to still be present; however, it is unknown if the former drainage tank is still present

Site 38 was not included in the IAS (EE, 1985). Site 38 was included in the Remedial Investigation/Feasibility Study (RI/FS) investigations at Whiting Field starting in 2000.

Nineteen surface soil borings and 19 subsurface soil borings were advanced using either hand augers or a direct push technology (DPT) rig at Site 38. The borings were typically located around the perimeter of former Building 2877. Nineteen surface soil samples and ten subsurface soil samples were collected from the soil borings and analyzed for VOCs, semivolatiles organic compounds (SVOCs), pesticides, polychlorinated biphenyl (PCBs), inorganics, TRPH and cyanide.

One VOC, 6 pesticides, TRPH, and 17 inorganics were detected in the surface soil. Alpha-chlordane, gamma-chlordane, heptachlor epoxide, TRPH, and mercury were detected above screening levels used to determine the need for further investigation assuming future residential land use. Alpha-chlordane and gamma-chlordane were detected above the FDEP residential Soil Cleanup Target Levels (SCTL) (FDEP, 2005) and the USEPA Region IX residential Preliminary Remediation Goals (PRG) (USEPA, 2002). Heptachlor epoxide and TRPH were detected above the FDEP residential SCTLs.

Eighteen inorganics were detected in the subsurface soil. Vanadium was detected in two subsurface soil samples (38D01011 and 38D01310) above the FDEP residential SCTL for vanadium.

The individual inorganic constituents, aluminum, cadmium, iron, and vanadium, detected at the site have no direct evidence of site-related use at Site 38 and the process and procedures at this site did not likely contribute to the presence of these inorganics in surface soil. Additionally, the site-specific concentrations for these inorganics are

within the range of levels found at NAS Whiting Field and of naturally occurring levels throughout the southeastern United States. Considering the information presented above, aluminum, cadmium, iron, and vanadium were dropped from consideration as COPCs for Site 38 surface soils.

In 2001, following additional soil sampling, CH2M Hill Constructors, Inc. (CCI) conducted an Interim Removal Action (IRA) to remove the contaminated surface soil from Site 38. Based on the results from the RI investigation and the further delineation, CCI recommended two areas at the site be excavated. The total combined volume excavated from the two areas was approximately 15 cubic yards. No additional confirmation samples were collected from the sidewalls or bottom of the excavation because the extent of the excavation had been determined both vertically and horizontally (CCI, 2002). Table 2-1 summarizes the Site 38 investigative history.

The current land use at Site 38 is nonresidential/recreational and no change is anticipated in the future land use for Site 38 from its current nonresidential/recreational use.

2.3 HIGHLIGHTS OF COMMUNITY PARTICIPATION

The RI Report (TtNUS, 2005a), FS (TtNUS, 2005b), and Proposed Plan (TtNUS, 2005c) for Site 38 were made available to the public for review in August 2005. These documents, and other Installation Restoration (IR) program information, are contained within the Administrative Record in the Information Repository at the West Florida Regional Library, Milton, Florida, 805 Alabama Street, Milton, Florida, 32570.

The notice of availability of all site-related documents was published in the Santa Rosa Press Gazette and Pensacola News Journal on 13 August and 14 August 2005, respectively, and targeted the communities closest to NAS Whiting Field. The availability notice presented information on the RI and FS at Site 38 and invited community members to submit written comments on the Proposed Plan.

A public comment period was held from 15 August through 14 September 2005, to solicit comments on the Proposed Plan. The comment period included an opportunity for the public to request a public meeting; however, a public meeting was not held because one was not requested. The site-related documents were placed in the Information Repository and made available for the public to review. Comments received during the public comment period are presented in the Responsiveness Summary in Appendix A.

TABLE 2-1
INVESTIGATIVE HISTORY
RECORD OF DECISION
SITE 38, BUILDING 2877
NAVAL AIR STATION WHITING FIELD
MILTON, FLORIDA

Date	Investigation Title	Activities	Findings
2000 - 2001	<i>Remedial Investigation Report for Surface and Subsurface Soil, Sites 5, 7, 29, 35, and 38, NAS Whiting Field, Milton, Florida (TtNUS, 2005a)</i>	<ul style="list-style-type: none"> • Installation of 19 soil borings • Collection and analysis of 19 surface and 10 subsurface soil samples • Interim Removal Action • HHRA • ERA 	<ul style="list-style-type: none"> • One VOC, 6 pesticides, TRPH, and 17 inorganics were detected in the surface soil. Alpha-chlordane and gamma-chlordane were detected above the FDEP SCTLs and the USEPA Residential PRG. Heptachlor epoxide and TRPH were detected above the FDEP SCTLs. Mercury was detected above the FDEP SCTL, and above the FDEP GCTL in the SPLP leachate. • Eighteen inorganics were detected in the subsurface soil. Vanadium was detected above the FDEP SCTL for vanadium. • In 2001, CH2M Hill (CCI) conducted an Interim Removal Action (IRA) to remove the contaminated surface soil from Site 38. Based on the results from the RI investigation and the further delineation, CCI excavated two areas at the site. The total volume excavated from the two areas was approximately 15 cubic yards. • The HHRA determined there are no COCs, and therefore, no risks from exposure to surface and subsurface soils for current and future receptors at Site 38. • The ERA does not predict unacceptable risks to plants or animals from chemicals present in surface soil at Site 38.
2005	<i>Feasibility Study for Surface and Subsurface Soil at Site 38 NAS Whiting Field, Milton, Florida (TtNUS, 2005b).</i>	<ul style="list-style-type: none"> • Evaluated remedial alternatives for site cleanup of COCs. 	<ul style="list-style-type: none"> • No surface soil or subsurface soil COCs identified.
2005	<i>Proposed Plan, Site 38, Building 2877, NAS Whiting Field, Milton, Florida, (TtNUS, 2005c)</i>	<ul style="list-style-type: none"> • Established public comment period from 15 August through 14 September 2005. 	<ul style="list-style-type: none"> • Proposed remedy: No Further Action for Site 38 surface and subsurface soils. • No comments received.

Notes:

HHRA = human health risk assessment

ERA = ecological risk Assessment

COC = constituent of concern

FDEP = Florida Department of Environmental Protection

TtNUS = Tetra Tech, NUS, Inc.

USEPA = United States Environmental Protection Agency

2.4 SCOPE AND ROLE OF REMEDIAL ACTION SELECTED FOR SITE 38

This ROD addresses surface and subsurface soil contamination and presents the final response action as NFA for Site 38. The groundwater at NAS Whiting Field has been designated as a separate site (Site 40, Basewide Groundwater) and is not addressed in this ROD. No surface water or sediment exists at Site 38.

2.5 SITE CHARACTERISTICS

Site 38, Building 2877 or the Former Golf Course Maintenance Building, is located immediately west of the 7th hole fairway on the NAS Whiting Field Golf Course at NAS Whiting Field, Milton, Florida (Figure 2-1).

2.5.1 Nature and Extent of Contamination

Historical aerial photographs and engineering drawings, provided by the Navy, were evaluated during the planning phases of the RI. The objective of the evaluation was to determine the operational history of Site 38 and to verify earlier historical accounts.

As part of the RI conducted for Site 38, data were collected to determine the nature and extent of releases of site-derived contaminants in surface and subsurface soil, to identify potential pathways of migration in surface and subsurface soil, and to evaluate risks to human and ecological receptors.

2.5.1.1 Surface Soil

Surface soil sampling was conducted at Site 38 to determine the nature and extent of contamination at the site and to assess whether or not surface soil could potentially serve as an exposure pathway to human or ecological receptors. Constituents detected in surface soil at Site 38 included one VOC, six pesticides, TRPH, and 17 inorganics. No COPCs were identified in the RI; and as a result, no human health risks were identified for exposure to surface soil at Site 38.

A complete list of all constituents sampled and their detected concentrations in surface soil is available in the RI report (TtNUS, 2005a).

2.5.1.2 Subsurface Soil

Subsurface soil sampling was conducted at Site 38 to determine the nature and extent of contamination at the site and to assess whether or not subsurface soil could potentially serve as an exposure pathway to human or

ecological receptors. Constituents detected in subsurface soil at Site 38 included 18 inorganics. No COPCs were identified in the RI; and as a result, no human health risks were identified for exposure to subsurface soil at Site 38.

A complete list of all constituents sampled and their detected concentrations in subsurface soil is available in the RI report (TtNUS, 2005a).

2.5.2 Ecological Habitat

Site 38 is severely limited in the quantity and quality of habitat for ecological receptors because it is heavily industrialized, characterized by concrete surfaces, mowed turfgrass, and moderate human activity. Most importantly, the limited size and habitat of the site serves to restrict the amount of food available to upper trophic level organisms.

2.5.3 Migration Pathways

No constituents of concern (COC) were identified for exposure to surface and subsurface soils at Site 38; therefore, the leaching of constituents from the soil to groundwater, is not a concern.

2.5.4 Current and Potential Future Site Land Use

The current land use at Site 38 is nonresidential / recreational and due to its proximity to the golf course this is not expected to change in the near future. Potential future residential land use may be allowed under the selected remedy.

2.6 SITE RISKS

A risk assessment was completed for Site 38 to predict whether the site would pose current or future threats to human health or the environment. Both a human health risk assessment (HHRA) and an ERA were performed for Site 38. These risk assessments evaluated the constituents detected in site soil during the RI.

The HHRA and the ERA provide the basis for selecting the remedial alternative for Site 38. This section of the ROD summarizes the results of the HHRA and the ERA.

2.6.1 HHRA

An HHRA was conducted at Site 38 to characterize the risks associated with potential exposures to site-related contaminants for human receptors. The HHRA is provided in Chapter 6.0 of the RI Report (TtNUS, 2005a). No human health risks were identified for surface or subsurface soils based on a residential land use scenario at Site 38.

2.6.1.1 Uncertainty Analysis

General uncertainties associated with the risk estimation process and site-specific uncertainties are discussed or referenced in the RI.

2.6.2 ERA

A screening ecological risk assessment (SERA) was performed for Site 38. Several organic and inorganic compounds were detected in surface and subsurface soils at concentrations exceeding conservative screening levels and, therefore, were assessed in a less conservative Step 3A evaluation.

The results of the Step 3A analysis indicate the chemicals detected in the surface and subsurface soils at Site 38 do not pose unacceptable risks to ecological receptors and will not be evaluated further.

2.6.3 Site Risk Summary

No unacceptable human health risks have been identified for Site 38 surface and subsurface soils based on a residential land use scenario. Risks to ecological receptors are acceptable.

2.7 DOCUMENTATION OF SIGNIFICANT CHANGES

No significant changes have occurred at Site 38 since the end of the public comment period for the Proposed Plan.

REFERENCES

CCI (CH2M Hill Constructors, Inc.), 2002. *Project Completion Report for Interim Removal Actions at Sites 6, 16, and 38, NAS Whiting Field, Milton, Florida*. Prepared for NAVFAC EFD SOUTH, North Charleston, South Carolina. July.

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FDEP (Florida Department of Environmental Protection), 2005. Soil Cleanup Target Levels (SCTLs). Chapter 62-777, Florida Administrative Code (F.A.C.). April.

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TtNUS, 2005b. *Feasibility Study for Surface and Subsurface Soil, Site 38, Naval Air Station Whiting Field, Milton, Florida*. Prepared for NAVFAC EFD SOUTH, North Charleston, South Carolina. June.

TtNUS, 2005c. *Proposed Plan for Site 38, Building 2877, Naval Air Station Whiting Field, Milton, Florida*. Prepared for NAVFAC EFD SOUTH, North Charleston, South Carolina. June.

USEPA, 2002. Region IX PRGs Table 2002 Update. USEPA Region IX, San Francisco, CA. October 1.

APPENDIX A

**COMMUNITY RELATIONS
RESPONSIVENESS SUMMARY**

Responsiveness Summary
Site 38 – Building 2877, Former Golf Course Maintenance Building
Naval Air Station Whiting Field
Milton, Florida

A public comment period on the Site 38 Proposed Plan was held from 15 August through 14 September 2005. No public comments were received, and because a public meeting was not requested one was not held.