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FINAL SITE MANAGEMENT PLAN FOR FISCAL YEAR 2004 NAS CECIL FIELD FL
11/1/2003
TETRA TECH NUS INC

Site Management Plan
for
Fiscal Year 2004

Naval Air Station Cecil Field
Jacksonville, Florida



Southern Division
Naval Facilities Engineering Command

Contract Number N62467-94-D-0888

Contract Task Order 0282

November 2003

**SITE MANAGEMENT PLAN
FOR
FISCAL YEAR 2004
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

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

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

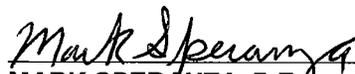
**Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220**

**CONTRACT NUMBER N62467-94-D-0888
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PREPARED UNDER THE SUPERVISION OF:

APPROVED FOR SUBMITTAL BY:


MARK SPERANZA, P.E.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA


DEBBIE WROBLEWSKI
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

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ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
APR	Alternate Procedures Request
AS	Air sparging
AST	Above-ground storage tank
AVORD	Aviation Ordnance
BCP	BRAC Cleanup Plan
BCT	BRAC Cleanup Team
BRA	Baseline risk assessment
BRAC	Base Realignment and Closure
BTEX	Benzene, toluene, ethylbenzene, xylene
CA	Contamination Assessment
CAR	Contamination Assessment Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Contaminant of concern
CSR	Confirmatory Sampling Report
DPT	Direct Push Technology
EBS	Environmental Baseline Survey
EE/CA	Engineering Estimate/Cost Analysis
FDEP	Florida Department of Environmental Protection
FFA	Federal Facility Agreement
FID	Flame ionization detector
FS	Feasibility Study
FY	Fiscal Year
GCTL	Groundwater Cleanup Target Level
HSWA	Hazardous and Solid Waste Amendments
IRA	Interim Remedial Action
IRP	Installation Restoration Program
iSOC	In-Situ Oxygen Curtain
KAG	Kerosene Analytical Group
LUC	Land Use Control
MIP	Membrane Interface Probe
NAS	Naval Air Station
NFA	No Further Action
NFF	North Fuel Farm
O&M	Operating and Maintenance

OPS	Operating Properly and Successfully
OU	Operable Unit
PAH	Polynuclear aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PP	Proposed Plan
PSC	Potential Source of Contamination
RA	Remedial Action
RAC	Remedial Action Contractor
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
ROD	Record of Decision
SAOR	Sampling and Analysis Outline Report
SAR	Sampling and Analysis Report
SARA	Superfund Amendments and Reauthorization Act
SCTL	Soil Cleanup Target Level
SFF	South Fuel Farm
SMP	Site Management Plan
SVE	Soil vapor extraction
TCE	Trichloroethene
TMP	Tank Management Plan
TRPH	Total recoverable petroleum hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
U.S. COE	United States Corps of Engineers
U.S. EPA	United States Environmental Protection Agency
UST	Underground storage tank
WWTP	Wastewater treatment plan

1.0 INTRODUCTION

This Site Management Plan (SMP) was prepared in accordance with the requirements of the Federal Facility Agreement (FFA) among the United States Environmental Protection Agency (U.S. EPA), the Florida Department of Environmental Protection (FDEP), and the United States Navy. The FFA is an interagency agreement required by Section 120 (e)(1) of the Superfund Amendments and Reauthorization Act (SARA) of 1986. Each year, or as otherwise agreed to by the FFA parties, the SMP is amended to reflect current information on progress made and future activities. The intent of the SMP is to provide:

- The site management strategy
- A schedule of work proposed for the upcoming fiscal year
- A projected schedule for sites and operable units (OUs) beyond the current fiscal year (FY)

The SMP for Naval Air Station (NAS) Cecil Field is being amended for FY 2004 to document changes in scope, schedule, and funding for completing investigations of past waste disposal sites under the Installation Restoration Program (IRP). Information pertaining to the petroleum [underground storage tank (UST) and above-ground storage tank (AST)] program and the Base Realignment and Closure (BRAC) program is also included to provide an overview of the environmental programs being conducted at NAS Cecil Field. NAS Cecil Field was closed in September 1999.

1.1 SITE MANAGEMENT STRATEGY

The SMP provides a schedule of IRP activities and is intended to be a dynamic document. The SMP will be amended as warranted and as mutually agreed to by the Navy, U.S. EPA, and FDEP. The principles upon which the SMP is prepared include the utilization of resources, the flexibility to meet changing and unforeseen conditions, and the ability to focus on site cleanup in a scientific and expeditious manner. These principles provide the basis for expedited remedial response at NAS Cecil Field. Guidance and promulgation offered by the U.S. EPA and FDEP are used to prepare the SMP.

The IRP investigations will be conducted following guidance presented in the Navy/Marine Corps Installation Restoration Manual (February 1997). Additional guidance as defined in the U.S. EPA Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (1988) and the National Oil and Hazardous Substance Contingency Plan (March 1990) will be followed for project deliverables.

The long-term goal of the SMP is to complete investigation and remediation of all sites at NAS Cecil Field. To the extent practicable, BRAC issues will be considered during the cleanup process. The Navy has prepared a BRAC Cleanup Plan (BCP) that details ways to accelerate cleanup at IRP, petroleum, Resource Conservation and Recovery Act/Hazardous and Solid Waste Amendments (RCRA/HSWA), asbestos, and other sites. The BCP discusses and identifies the NAS Cecil Field Partnering Team and their role in the cleanup process and presents strategies to fast track the investigation and cleanup processes. The Partnering Team was formed to address the numerous issues surrounding base closure and to enhance environmental decision-making processes at BRAC installations where property will be available for transfer to the community. This team approach is intended to foster partnering, accelerate the cleanup process, and expedite timely, cost-effective, and environmentally responsible disposal and reuse decisions.

The partnering team, in cooperation with the City of Jacksonville Reuse Commission, updates the prioritization plan for site cleanup at NAS Cecil Field by assessing candidate sites by base reuse, waste characteristics, potential migration pathways, and potential receptors (human and ecological). The Navy intends to work with the FFA parties based on a continual review process to coordinate prioritization of sites at NAS Cecil Field.

1.2 INSTALLATION RESTORATION PROGRAM

A brief description, with a current investigative status, of several sites and potential sources of contamination (PSCs) identified under the IRP is presented in Table 1-1. The status of these sites will be updated and submitted with the quarterly progress report on IRP activities at NAS Cecil Field. The total number of IRP sites at this time is 32. PSCs may be added and/or deleted in the future as a result of site assessments and BRAC surveys.

1.3 PETROLEUM PROGRAM

Although petroleum sites are not required by the FFA to be part of this SMP, they have been included to assist the partnering team in planning future activities to expedite petroleum site (UST and AST) cleanup at NAS Cecil Field. A brief description, with a current investigative status, of several petroleum-contaminated sites at NAS Cecil Field is presented in Table 1-2. Sites may be added and/or deleted in the future as a result of contamination assessments and BRAC surveys. Currently, the North Fuel Farm (NFF) sites, the South Fuel Farm (SFF), Day Tank 1, the Jet Engine Test Cell, Tank 199, and miscellaneous BRAC petroleum related sites are being investigated under the petroleum program.

A Tank Management Plan (TMP) was submitted in January 1997. The TMP provides a list of all active and inactive storage tanks (ASTs and USTs) at NAS Cecil Field. The TMP also presents investigation

TABLE 1-1

**SITE DESCRIPTION CHART
INSTALLATION RESTORATION PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
1	OU 1	Old Landfill (9 acres)	1950s- 1965	Solid waste, oils, fuels, paints, paint stripper, solvents, municipal solid waste	Municipal solid waste, industrial operations	Trench and fill landfill for commercial and residential wastes (solid and liquid).
	<p>Current Investigative Status: The Record of Decision (ROD) was submitted in September 26, 1995. The selected remedial alternative, site closure, included landfill gas, radiological and unexploded ordnance surveys, surface debris removal, groundwater monitoring, post-closure care, and a 5-year review. Final design was submitted in April 1996. Bechtel and the U.S. Navy conducted an unexploded ordnance survey in 1997, and Bechtel completed a radiological survey in 1998. Tetra Tech NUS, Inc. (TiNUS) initiated monitoring activities in May 1997. The four quarterly sampling events were completed and reports presenting the analytical results were submitted for each sampling event. Sampling has been reduced to an annual event. The April 1999 annual sampling event was conducted, and the report summarizing the results was completed. Monitoring wells CEF-BK-4S and CEF-1-5S were resampled in December 1999. The April 2000 annual sampling event was conducted, and the report recommended continuing the monitoring program. The April 2001 annual sampling event was conducted, and the report was submitted in November 2001. The report recommended that the annual sampling be reduced to surface water and sediments collected at three locations and that toxicity testing be eliminated. The May 2002 annual sampling event was conducted, and the report recommended continuing the current monitoring program in 2003. A Final Operating Properly and Successfully (OPS) Demonstration report is being prepared for the 2nd quarter of fiscal year (FY) 2004. The latest annual sampling event occurred in May 2003, and the report is currently in preparation.</p>					
2	OU 1	Recent Landfill (5 acres)	1965-1975	Solid waste, oils, fuels, paints, paint stripper, solvents	Industrial operations and shops	Trench and fill landfill for commercial and residential wastes (solid and liquid).
	<p>Current Investigative Status: The ROD was submitted in September 1995. The selected remedial alternative included site closure and biomonitoring in the wetland area. Final design was submitted in April 1996. Bechtel and the U.S. Navy conducted an unexploded ordnance survey in 1997 and Bechtel completed a radiological survey in 1998. TiNUS initiated monitoring activities in May 1997. The four quarterly sampling events have been completed and reports presenting the analytical results were submitted for each sampling event. Sampling has been reduced to an annual event. The April 1999 annual sampling event was conducted, and the report summarizing the results was completed. Monitoring wells CEF-BK-4S and CEF-1-5S were resampled in December 1999. The April 2000 annual sampling event was conducted, and the report recommended continuing the monitoring program. The April 2001 annual sampling event was conducted, and the report was submitted in November 2001. The report recommended that the annual sampling be reduced to surface water and sediments collected at three locations and that toxicity testing be eliminated. The May 2002 annual sampling event was conducted, and the report recommended continuing the current monitoring program in 2003. A Final OPS Demonstration report is being prepared for the 2nd quarter of FY 2004. The latest annual sampling event occurred in May 2003, and the report is currently in preparation.</p>					
3	OU 8	Oil/Sludge Disposal Pit (50-100 ft in diameter and 3-5 ft deep)	1950s- 1975	Waste fuels, oils, paints, paint strippers, solvents	Fuel farm, AIMD, squadrons, public works shops	At least four shallow pits were used to dispose of liquid wastes and sludge. Groundwater was the only medium identified in the baseline risk assessment (BRA) as having an unacceptable human health risk. No ecological risk was identified for any medium.
	<p>Current Investigative Status: The ROD was signed in September 1998. The final groundwater remedial design was submitted in October 1998 and identified air sparging (AS) of the source, natural attenuation monitoring of the plume, institutional controls to prevent use of groundwater, and 5-year reviews. The baseline sampling event for natural attenuation was conducted in December 1998. The annual summary report for the Year 1 Quarterly Monitoring Program was completed in January 2000. The Year 1 annual report recommended quarterly sampling in the source area and the wells near Rowell Creek and semi-annual sampling of the wells in the plume. The installation of the AS system was completed in the 3rd quarter of FY 1999, the system began operation in late May 1999, and the system was shut down in May 2000. The Year 2 annual report recommended that the AS system remain off, and the groundwater monitoring program was optimized (reduced analyses and number of monitoring wells). The November 2000 groundwater sampling event (source area only) showed a rebound of the contaminants of concern (COCs) in the source area. The BRAC Cleanup Team (BCT) decided to restart the AS system. The AS system was turned on December 22, 2000. A groundwater sampling event was conducted in January 2001, and the results were presented at the February 2001 BCT meeting. Based on the results, the AS system was shut down in February 2001, and the sampling frequency was revised to semi-annual. An Interim Remedial Action (IRA) report was submitted in June 2001. The annual Year 3 groundwater sampling event was conducted in July 2001, and the report was completed in March 2002. During the January 2002 sampling event, the maximum trichloroethane (TCE) concentration in one well at the site exceeded the AS system goal of 1,255 ppb and as a result the BCT decided to monitor this well quarterly until a peak concentration was reached. However, after the April sampling data was evaluated, it was decided that this well should be monitored monthly until the July 2002 sampling event to more quickly determine the TCE peak and hopefully avoid returning the AS system to operation. The Year 5 semi-annual sampling events were completed in February 2003 and July 2003 and the annual monitoring report is currently in preparation. A draft OPS Demonstration report was submitted in May 2002 and is currently in review.</p>					

TABLE 1-1

**SITE DESCRIPTION CHART
INSTALLATION RESTORATION PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
4	--	Grease Pits (9 acres)	1950s- 1983	Waste oils, mess greases	Installation dining facilities and facility oil/water separators	Multiple shallow pits were excavated to dispose of liquid wastes (grease from dining facilities and waste oils from oil/water separators) and then covered with fill.
	<p><u>Current Investigative Status:</u> Field investigation work plan was submitted in March 1995. Field screening activities (includes surface and subsurface soil sampling and monitoring well installation) were completed in June 1997. Groundwater sampling was completed in August 1997. The final Technical Memorandum for No Further Action (NFA) was submitted in September 1998.</p>					
5	OU 2	Oil Disposal Area Northwest (100 ft in diameter)	1950s	Oil, fuel	Fuel farms	Shallow, unlined pit where liquid wastes were disposed (petroleum products present)
	<p><u>Interim Action:</u> Interim ROD was signed in September 1994. IRA was initiated in March 1995 for source removal. IRA included removal and disposal of free petroleum product and removal and treatment of contaminated soil using bioremediation. Per BCT recommendation, the IRA (bioremediation) activities were discontinued in June 1996.</p> <p><u>Current Investigative Status:</u> Remedial Action (RA) reports were submitted in May 1995. Final ROD was submitted in September 1995. The remedial alternative included excavation and treatment of sediment in drainage ditch, on-site treatment of contaminated groundwater, and a restriction on all use of groundwater from the surficial aquifer. Due to discontinuation of the interim action, the ROD was amended. The Amended ROD was issued in January 2000. A Technical Memorandum letter report about the free-product investigation was submitted in September 2000.</p> <p>The remedial actions for soil and sediment were initiated in April 1998. For this effort, approximately 2,100 cubic yards of soil were excavated from Site 5 and disposed off site. Approximately 330 cubic yards of sediment were excavated from the adjacent drainage ditch and backfilled in the excavated soil area. Previously treated Site 5 soil was used to backfill the remainder of the soil excavation. This effort was completed in July 1998. The final groundwater remedial design for AS was submitted in May 1998. Two groundwater sampling events were conducted to assess the potential of natural attenuation as a remedial alternative. Based on data collected during these sampling events, natural attenuation appeared to be a viable remedial alternative at Site 5. The annual summary report for the Year 1 Monitoring Program was completed in September 1999. Recommendations included reducing monitoring to semi-annual events. The Year 2 annual sampling event was conducted in February 2000 and recommended continuation of the semi-annual sampling. The Year 3 semi-annual groundwater monitoring events were completed in August 2000 and January 2001. The final IRA and Year 3 Groundwater Report was submitted in March 2002. The Year 4 semi-annual groundwater sampling events were conducted in July 2001 and February 2002. The final Year 4 Groundwater Report was submitted in December 2002 and recommended no changes to the semi-annual monitoring program. The Year 5 semi-annual sampling events were conducted in July 2002 and January 2003, and a draft monitoring report was submitted in late August 2003. An OPS Demonstration report is scheduled for submittal during the 2nd quarter of FY 2004.</p>					
6	--	Lake Fretwell Rubble Disposal Area (3.5 acres)	1950s- 1984	Inert rubble	Concrete/asphalt from demolition of runway, construction debris, lumber, scrap metal, cut foliage	Rubble was disposed along banks of a low-lying marsh area by public works; some of the rubble has been overlain with soil and sod; additional rubble is uncovered.
	<p><u>Current Investigative Status:</u> Field Investigation Plan was submitted in March 1995. Field screening activities (geophysical surveys, monitoring well installation, surface and subsurface soil sampling, surface water and sediment sampling) were conducted in June 1997. Groundwater sampling was completed in August 1997. The draft Technical Memorandum presenting investigation findings was submitted in May 1998. However, the BCT decided that additional sampling was required. Three additional soil sampling events were conducted between April and July 1999 to delineate soil contaminated with arsenic, total recoverable petroleum hydrocarbons (TRPH), and benzo(a)pyrene. A dig and haul package was completed in August 1999. The Navy excavated and disposed of the contaminated soil in August 1999. The final Technical Memorandum for NFA was issued in July 2000.</p>					

TABLE 1-1

**SITE DESCRIPTION CHART
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
7	OU 3	Old Fire Fighting Training Area (1/3 acre)	1950s-1975	Waste fuels, oil, solvents, paint, paint strippers	Fuel farm, AIMD, squadrons, public works shops	Burnable liquid wastes were poured onto metal objects (jets) in shallow, unlined pits and ignited for fire fighting training
<p><u>Current Investigative Status:</u> The ROD was submitted in March 1998. A draft soil and groundwater design package was submitted in May 1998. In September 1998, surface soil sampling in support of the RA was conducted to further delineate TRPH, polynuclear aromatic hydrocarbon (PAH), and inorganic contamination. The RA for soil was conducted in December 1998 and the Construction Completion Report indicated NFA for the soil.</p> <p>The groundwater portion of the design package was implemented in August 1998 and consists of annual groundwater monitoring. Annual groundwater monitoring reports were issued in October 1998 and October 1999. Results from the groundwater sampling conducted in July 2000 indicated the concentration of benzene had decreased below the detection limit and Florida cleanup criteria. The annual report (Year 3) recommended that sampling occur in November 2000. The November 2000 sampling event showed a rebound in the benzene concentration in one well. The BCT decided to sample the one well (8S) quarterly. An AS pilot test was conducted at Well 8S in April 2001 after the quarterly sampling event. The Year 4 annual groundwater sampling event was conducted in July 2001, and again the benzene concentration slightly exceeded the target cleanup goal. Another sample was collected in October 2001 and the result was also above the target cleanup goal. Therefore, it was decided to continue the annual monitoring program for Well 8S. The final Year 4 Groundwater Monitoring report was submitted in January 2002. The annual Year 5 sampling event was completed in July 2002 and the final report was submitted in February 2003. A closeout sampling event was completed in February 2003, and a final closeout confirmation event occurred in May 2003. The benzene concentrations during the final confirmation closeout sampling were less than the benzene target cleanup level for Wells 8S and 12S and therefore, a final Remedial Action Report recommending NFA was submitted on September 15, 2003. The OPS Demonstration report will no longer be required.</p>						
8	OU 3	Boresite Range/ Hazardous Waste Storage Area/Fire Fighting Training (6 acres)	1975-1984	Waste fuels, oil, solvents, paint, paint strippers, lead	Fuel farm, AIMD, squadrons, public works shops	Burnable liquid wastes were poured onto metal objects (jets) in shallow, unlined pits and ignited for fire fighting training. Boresite range was used for machine gun and small arms practice. 55-gallon drums of waste were stored at the site and used as targets for practice.
<p><u>Current Investigative Status:</u> The ROD was submitted in March 1998. The groundwater remedial design work plan was submitted in June 1998. The Baseline Sampling Event for natural attenuation was conducted in August 1998. The annual summary report for the Year 1 Monitoring Program was completed in July 1999. Recommendations included reducing monitoring to semi-annual events. The second semi-annual sampling event was conducted in February 2000 and recommended continuation of the semi-annual sampling. The 1st Year 3 semi-annual groundwater sampling event was completed in July 2000. A fifth monitoring well was added to the sampling program. The 2nd Year 3 semi-annual groundwater sampling event was conducted in January 2001. The final IRA and Year 3 Groundwater Monitoring report was submitted in February 2002. The Year 4 semi-annual groundwater sampling events were completed in July 2001 and January 2002. The final Year 4 Groundwater Monitoring report, submitted in December 2002, recommended no changes to the current monitoring program. The Year 5 semi-annual sampling events were conducted in July 2002 and January 2003, and the draft report was submitted in late August 2003.</p> <p>In August 1998, surface soil sampling was conducted to further delineate TRPH contamination. The draft soil remedial design, submitted in November 1998, identified excavation of the three pits to the groundwater table, removal of soil exceeding residential criteria to depth of 1 foot, and collection of confirmation samples. Additional sampling was conducted in April 1999 to identify a site-specific protection of groundwater value for TRPH in soil. A dig and haul package was submitted, and soil excavation and disposal related to the TRPH contamination was completed in August 1999. The Source Removal Report was issued in April 2000 and indicated NFA for the soil. An OPS Demonstration report is being prepared for the 2nd quarter of FY 2004.</p>						
9	--	Recent Grease Pits (0.5 acre)	1983-1984	Grease mixed with water	Installation messes	Three shallow pits were used to dispose of kitchen grease; each pit was used until full and then a new pit was excavated
<p><u>Current Investigative Status:</u> Field investigation work plan was submitted in March 1995. Field screening activities, except for groundwater sampling, were completed in June 1997 (including geophysical survey, hydrological assessment, monitoring well installation, surface and subsurface soil, surface water and sediment sampling). Groundwater sampling was completed in July 1997. A draft Technical Memorandum presenting investigation results and conclusions was submitted in December 1997. The final technical memorandum for NFA was submitted in July 1998.</p>						

TABLE 1-1

**SITE DESCRIPTION CHART
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
10	OU 4	Rubble Disposal Area (6.5 acres)	1950s-1960s	Inert Rubble	Building demolition debris, runway debris	Surface disposal area with debris (demolition, roadway, metal); information is limited
<p><u>Current Investigative Status:</u> The final Remedial Investigation (RI) report was submitted in November 1996. The RI report presented an NFA recommendation with a proposal to prepare an NFA ROD. The Proposed Plan (PP) was submitted in July 1997. Final ROD was submitted in August 1997. One detection of arsenic was observed above its background criterion, and in December 1998, soil sampling was conducted to delineate this area. A dig and haul package was submitted, and soil excavation and disposal related to arsenic contamination were completed in August 1999. An Explanation of Significant Difference was prepared in June 1999. Soil excavation and disposal was completed in September 1999. The Remedial Action Report was issued in April 2000 and indicated NFA for the soil.</p>						
11	OU 6	Golf Course Pesticide Disposal Area	1970s-1978	Pesticide, fungicide, and herbicide containers, vehicles, metal debris	Golf course maintenance area	Reportedly, between 200 and 400 empty 5-gallon cans that had contained pesticides were buried at the site; a limited number of full containers of pesticides were buried in 1978.
<p><u>Interim Actions:</u> Final Interim ROD was submitted to the regulatory agencies in August 1994. The IRA was completed in January 1996. The pit was lined with plastic and a fence was placed around the open pit. The remedial action completion report was submitted on October 18, 1996. Revisions to the Remedial Action Report were submitted on May 16, 1997.</p> <p><u>Current Investigative Status:</u> The ROD was finalized and signed in September 1998. The draft design for soil treatment was submitted in August 1998. A soil removal in accordance with the final remedial action occurred in December 1998. During the removal action, pesticide containers were discovered and disposed accordingly. A geophysical investigation was conducted in February 1999 to assess whether additional buried containers remained on site. Based on the anomalies found during this investigation, test pitting was conducted in the second quarter of FY 2000 (January to March 2000). A Soil Remedial Action Report Addendum was issued in August 2000 and indicated NFA for the soil.</p> <p>The remedial design for groundwater was submitted in November 1998. The baseline groundwater sampling event was conducted in December 1998. The annual summary report for the Year 1 Quarterly Monitoring Program was completed in November 1999. Recommendations included reducing monitoring to semi-annual events. The Year 2 sampling events were conducted in January and August 2000. The Year 2 Annual Groundwater Monitoring Report was completed in December 2000 and recommended that no changes be made in the program. The Year 3 semi-annual sampling events were conducted in January and July 2001, and the final Year 3 Annual Groundwater Monitoring report was submitted in January 2002. The Year 4 semi-annual sampling events were completed in January and July 2002. A final IRA report was completed in August 2002. A site close out sampling event was conducted in October 2002, and the results of that sampling indicated that target cleanup levels are being met. A Final Remedial Action and Year 4 Annual Groundwater Monitoring Report recommending no further action at this site was submitted in June 2003 and was approved by the BCT. An OPS Demonstration report will no longer be required.</p>						
12	--	Public Works Rubble Disposal Area (0.5 acre)	1970s-1984	Inert rubble, lumber, concrete, wire, cable, scrap metal, drums	Public works	Majority of rubble has been buried approximately 3 feet below land surface, some rubble is above ground.
<p><u>Current Investigative Status:</u> Field investigation work plan was submitted March 1995. Field screening activities (geophysical survey, hydrological assessment, monitoring well installation, surface and subsurface soil sampling, groundwater sampling and surface water and sediment sampling) were completed in August 1997. The Technical Memorandum for NFA was submitted in September 1998 and regulatory concurrence was received in October 1998.</p>						
13	--	Day Tank 1-Fuel Spill (1.5 acres)	1981	JP-5 fuel	Day tank	Location of fuel spill in 1981; approximately 500,000 gallons of JP-5 fuel were spilled; approximately 250,000 gallons were recovered.
<p><u>Current Investigative Status:</u> Transferred to the petroleum program.</p>						
14	OU 5	Blue 5 Ordnance Disposal Area (4.5 acres)	1967-1977	Fuses, 100-pound bombs, large munitions, lulu fuses, other explosive materials	Installation ordnance disposal operations	Ordnance disposal by open detonation or burning
<p><u>Current Investigative Status:</u> The final RI report was submitted in October 1997. The final Feasibility Study (FS) report and the PP were submitted in March 1998. The ROD was submitted in July 1998. The ROD selected the NFA remedy.</p>						

TABLE 1-1

**SITE DESCRIPTION CHART
INSTALLATION RESTORATION PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
15	OU 5	Blue 10 Ordnance Disposal Area (10 acres)	1960s-1977	Small arms, parachute/distress flares, Mark IV signal cartridges, rocket igniters, CADS, 5- and 2.75-inch rockets	Installation ordnance disposal operations	Ordnance disposal by combustion in a chamber with ashes being spread over the site.
<p><u>Current Investigative Status:</u> The final FS was submitted in March 1998. An ecological study was conducted in September 1998. Additional sampling was conducted in FY 1999 to fill in data gaps for lead and PAH contamination. A sampling and analysis program of soil and soil invertebrates was conducted in June 2001 to assist in the development of Preliminary Remediation Goals for the site. The remedial goals have been identified and agreed upon by the cleanup team and a revised FS for soil is currently in preparation. A PP and a ROD will be completed after the revised FS is finalized. A Technical Memorandum for NFA for groundwater (no additional monitoring) at Site 15 was submitted in August 2001.</p>						
16	OU 7	AIMD Seepage Pit (40x3x10 ft)	1960-1980	Solvents, heavy metals, acids, blasting grit, paint residue, photo wastes	Building 313, jet engine maintenance shop	Seepage pit used to drain wastewater (containing solvents, paint, grease, metals) generated from Building 313 operations into area soils; holding tank for wastewater is also located at Site 16; glass bead separator and associated piping also present.
<p><u>Interim Remedial Action:</u> Focused FS and remedial design for the removal of holding tank and impacted soils were issued. Final responsiveness summary and Interim ROD were submitted in March 1994. The removal and closure of the NDI Holding Tank was completed in June 1994. Final NDI Holding Tank Closure Certification and Report was submitted in September 1994.</p> <p><u>Investigative Status:</u> The ROD was submitted in August 1996. The remedial design for Site 16 was revised and consisted of remedial actions proposed for the source area and storm sewer system as identified below. An Amended PP and Amended ROD were submitted in the second quarter of FY 1999.</p> <p><u>Storm Sewer System:</u> A pilot-scale Treatability Study work plan for the storm sewer system was submitted in April 1998. The pilot study for the Storm Sewer System was completed in April/May 1998 and a pilot-scale treatability study report was submitted in June 1998. The draft Storm Sewer Remedial Design was submitted in August 1998. A storm sewer investigation was conducted in August 1998 to evaluate the remaining portions of the Storm Sewer System near Site 16. The storm sewer system was repaired in June 1999.</p> <p><u>Source Area:</u> A decision was made based on new information to revise the remedial action to AS of the source and natural attenuation of the plume in the Amended ROD. The pilot-scale soil vapor extraction (SVE) work plan was finalized and implemented in September 1998. The baseline groundwater sampling event was conducted in September 1998. The annual summary report for the Year 1 Monitoring Program was completed in September 1999. The annual report recommended quarterly sampling in the source area and semi-annual sampling of the wells in the plume. The AS/SVE system installation was completed in June 1999, the operation of the system began in late June 1999, and the system was shut down in May 2000. The Year 2 annual sampling event was conducted in April 2000. The Year 2 annual report recommended that the groundwater monitoring program be optimized (reduced analyses and number of monitoring wells). The November 2000 quarterly sampling event showed a rebound of the COCs in the source area. The BCT decided to restart the AS/SVE system. The AS/SVE system was restarted on December 22, 2000. A groundwater sampling event was conducted in January 2001. Based on the results, the AS system was shut down in February 2001 and the sampling frequency was revised to semi-annual. The 2nd semi-annual Year 3 sampling event was conducted in July 2001, and the final report was submitted in April 2002. An IRA/SVE report was completed in June 2001 and recommended the continued monitoring of groundwater to determine if further operation of AS/SVE system is necessary. Monitoring, institutional controls, and 5-Year Reviews will continue until FDEP Groundwater Cleanup Target Levels (GCTLs) are achieved. A groundwater sampling event was conducted in February 2002, and the results were presented at the March 2002 BCT meeting. Results showed that the TCE source area concentrations remain below the target of 1,000 ppb and therefore the AS system will remain off. The Year 4 semi-annual sampling events were completed during February and July 2002. The final Year 4 Groundwater Monitoring report was submitted during August 2003. No changes to the existing monitoring program were recommended. The Year 5 semi-annual sampling events were conducted in February 2003 and July 2003, and the monitoring report is currently in preparation. An OPS Demonstration report is being prepared for the 3rd quarter of FY 2004.</p>						

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SITE DESCRIPTION CHART
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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
17	OU 2	Oil/Sludge Disposal Pit Southwest (2 acres)	Late 1960s - early 1970s	Waste fuels/oils	Fuel farm	Unlined shallow disposal pit
<p><u>Interim Remedial Action:</u> Interim ROD was signed in September 1994. An IRA was initiated in February 1995 for source removal and on-site treatment of contaminated soil. A remedial action completion report was submitted in September 1996.</p> <p><u>Current Investigative Status:</u> The ROD was submitted September 1995. The remedial alternative is intrinsic bioremediation with an aggressive monitoring program. The final remedial design work plan was submitted in January 1997. The first year (4 quarters) of natural attenuation monitoring was completed in June 1998. An annual report was submitted in June 1998 recommending semi-annual monitoring. Semi-annual monitoring is ongoing, and the Year 2 annual report was issued in June 1999. The recommendations from the Year 2 annual report included discontinuing the analysis of several COCs and several natural attenuation parameters. The Year 3 annual sampling event was conducted in February 2000 and recommended decreasing the number of wells to be sampled. The Year 4 semi-annual groundwater sampling events were completed in July 2000 and January 2001. The Year 4 annual monitoring report was submitted in March 2002 and recommended no changes in the monitoring program. The Year 5 semi-annual groundwater sampling events were completed in July 2001 and January 2002. The final Year 5 Groundwater Monitoring report was completed in October 2002 and also recommended no changes to the monitoring program. The Year 6 semi-annual sampling events were completed in July 2002 and February 2003. The draft annual monitoring report for Year 6 was submitted at the end of August 2003. An OPS Demonstration report is being prepared for the 2nd quarter of FY 2004.</p>						
18	--	Ammunition Disposal Area (0.1 acre)	1940s - 1950	Ammunition crates, miscellaneous ordnance	Magazine area	Waste material from a nearby magazine area was trucked in and dumped over the site during the 1940s until 1950. Reportedly, all munitions were removed.
<p><u>Current Investigative Status:</u> Field investigation work plan was submitted in March 1995. Field screening activities (monitoring well installation, surface and subsurface soil, surface water, and sediment sampling) were completed in August 1997. The draft Technical Memorandum for NFA was submitted in March 1998. The final Technical Memorandum for NFA was submitted in October 1998.</p>						
19	--	Rowell Creek Rubble Disposal Area (3 acres)	Section until 1991	Concrete, construction debris, asphalt, wood debris, trash	Construction and operations	Limited information on disposal practices
<p><u>Current Investigative Status:</u> Field investigation work plan was submitted in March 1995. Field screening activities (records and document search, geophysical surveys, monitoring well installation, surface and subsurface soil, surface water and sediment sampling) were completed in August 1997. The draft Technical Memorandum for NFA was submitted in January 1998. The BCT recommended that the report be finalized after completion of the test pitting activities at the site. A letter report identifying test pit locations was submitted in May 1998. The Technical Memorandum for NFA was submitted in November 1998.</p>						

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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
21	OU 10	Golf Course Pesticide Mixing Area	1950s to present	Pesticides, TRPH, and arsenic	Golf course maintenance area	Site activities included the storage and maintenance of golf course maintenance equipment, cleaning and rinsing of chemical-dispensing equipment, and preparation of chemical solutions. Empty containers at one time were disposed in a pile on the northwest side of the site. Rinsing took place at one of two places: on the east side of Building 238, and on a concrete pad on the north side of the site. At both locations, rinse water discharged into the ditch along the east side of the site.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1991. Beginning in 1998, field investigations were conducted to delineate soil and groundwater contamination. Soil contamination has been delineated and a final Action Memorandum for soil removal to meet industrial criteria was issued in April 2001. The soil remedial action was completed during June 2001. A draft Action Memorandum Addendum for removal of soil to residential risk levels was submitted in May 2002, and the remedial action was completed in September 2002. The groundwater contamination is being addressed in the RI/FS process. The RI was submitted in October 2001, and the final FS was submitted in September 2002. A final PP and ROD will be submitted after Land Use Control (LUC) language is finalized. A work plan for long-term groundwater monitoring (the selected alternative) was submitted in June 2002, and the two semi-annual sampling events for the first year occurred in July 2002 and February 2003. A draft annual monitoring report is currently in preparation. The most recent semi-annual sampling event was performed during August 2003.</p>					
25	OU 10	Former Transformer Storage Yard	1953 to 1999	Pesticides, polychlorinated biphenyls (PCBs), and benzo(a)pyrene	Storage of pesticides and the storage of old transformers	Limited information on practices. Site activities included the storage of pesticides and old transformers, operation of the wash rack, and service of equipment.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1997. Beginning in 1998, field investigations were conducted to delineate soil and groundwater contamination. The soil contamination was delineated and a final Action Memorandum for soil removal was issued in April 2001. A soil remedial action was completed during May 2001. The groundwater contamination is being addressed in the RI/FS process. The RI and FS reports were submitted in October 2001. A final PP was submitted in July 2003 and a revised draft final ROD was submitted for regulatory review in May 2003. The final ROD is being prepared for submittal during the 1st quarter of FY 2004. A work plan for long-term groundwater monitoring (the selected alternative) was submitted in June 2002, and the two semi-annual sampling events for the first year occurred in July 2002 and February 2003. A draft annual monitoring report is currently in preparation. The most recent semi-annual sampling event was completed during August 2003.</p>					
32	OU 12	DRMO Asphalt Storage Yard		PAHs and metals	Hazardous materials storage	Site was used for unpermitted storage of hazardous materials in drums.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1993. A SAR, issued in 1996, indicated that metals detected in surface soil at the site may represent a hazard. Field investigations were conducted between May 1999 and April 2000 to delineate soil contamination. A final Action Memorandum for soil removal was prepared in May 2000, and 140 tons of soil were excavated and disposed in August 2000. Because contaminated soil remains at the site beneath a paved storage area, an Engineering Evaluation/Cost Analysis (EE/CA) was prepared and submitted in August 2002. The EE/CA recommended groundwater monitoring with LUCs as the preferred remedial action alternative at the site. A final PP was submitted in mid-September 2003, and a draft ROD was submitted in late August 2003. The final ROD is scheduled for submittal during the 1st quarter of FY 2004.</p>					

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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
36	OU 9	Control Tower TCE Plume		Chlorinated solvent, benzene, toluene, ethylbenzene, and xylene (BTEX) plume.	Groundwater plume located south of Building 82, the control tower.	The plume was discovered during the Day Tank 2 groundwater plume investigation. The plume's major contaminants are TCE and BTEX
	<p><u>Current Investigative Status:</u> An RI for Site 36 (performed in conjunction with Site 37) was initiated in November 1998 and concluded in January 1999. The draft RI and FS reports were issued in the 3rd quarter of FY 1999. The final RI Report was completed in August 1999. The remediation of Day Tank 2 groundwater contamination is included in the Site 36 groundwater remediation. The FS and PP were issued in September 2000. The ROD was finalized and signed in June 2001. The final remedial design for the AS system was submitted in September 2001, and the remedial action construction began in December 2001. The AS system began operation at one hot spot in March 2002. The construction for the entire system was completed in July 2002. Also, a long-term monitoring plan for groundwater was submitted in January 2001. The first year of quarterly sampling activities concluded in October 2001. The final Year 1 Groundwater Monitoring report was submitted in March 2003 and recommended no changes to the monitoring program. The second year of quarterly sampling activities concluded in October 2002. The draft Year 2 Annual Groundwater Monitoring report was submitted in March 2003 and recommended decreasing the monitoring frequency to semi-annual. The BCT determined that monitoring should remain on a quarterly basis for the first two quarters of Year 3, and then sampling frequency will decrease to semi-annual beginning with the October/November 2003 sampling event.</p>					
37	OU 9	Hangars 13 and 14 DCE Plume		Chlorinated solvent and BTEX plume	Groundwater plume located southeast of Hangars 13 and 14	The plume was discovered as part of the flightline groundwater investigation. Its major contaminants are dichloroethene and BTEX
	<p><u>Current Investigative Status:</u> An RI for Site 37 (performed in conjunction with Site 36) was initiated in November 1998 and concluded in January 1999. The draft RI and FS reports were issued in the third quarter of FY 1999. The final RI Report was completed in August 1999. The FS and PP were issued in September 2000. The ROD was finalized and signed in June 2001. The final Remedial Design for the AS system was submitted in September 2001, and the remedial action construction began in December 2001. The AS system began operation at one Hot Spot in March 2002. Also, a long-term monitoring plan for groundwater and the storm sewer was submitted in January 2001. Excavation of contaminated soil occurred during the last quarter of FY 2001 under the Petroleum Program. The first year of quarterly sampling activities concluded in October 2001. The draft Year 1 Groundwater Monitoring report was submitted in January 2002 and recommended no changes to the monitoring program. The second year of quarterly sampling activities concluded in October 2002. The draft Year 2 Annual Groundwater Monitoring report was submitted in March 2003 and recommended decreasing the monitoring frequency to semi-annual. The BCT determined that monitoring should remain on a quarterly basis for the first two quarters of Year 3, and then sampling frequency will decrease to semi-annual beginning with the October/November 2003 sampling event.</p>					
42	OU 12	Former Boiler House/Steam Plant and General Storehouse	1940s to 1960s	PAHs, TRPH, and metals	Steam generation	Limited information on practices since the buildings were all demolished in the late 1950s and early 1960s.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1994. In 1999, a Sampling and Analysis Outline Report (SAOR) for the Yellow Water Weapons Area indicated that arsenic, barium, and benzo(a)pyrene at Site 42 exceeded FDEP Soil Contaminant Target Levels (SCTLs). Further field investigations were conducted between April 1999 and April 2000 to delineate soil contamination. A final Action Memorandum for soil removal was submitted in January 2001, and 2,420 tons of soil were excavated and disposed in February and March 2001. A Technical Memorandum for NFA was submitted in March 2002. An NFA PP was issued in June 2002, and an NFA ROD was signed in October 2002.</p>					
44	OU 12	Ditch from DRMO to Wastewater Treatment Plant	1942 to 1999	PAHs, PCBs, TRPH, pesticides and metals	Drainage Ditch	USTs were present in the area of the Wastewater Treatment Plant (WWTP). Sewage discharges from WWTP occurred. Wash water containing solvents accidentally discharged to ditch at least once.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1993. Field investigations were conducted between June 1999 and April 2000 to delineate soil contamination and evaluate ecological risks from sediment and surface water pathways. An Action Memorandum for soil removal was submitted in June 2000, and 290 tons of soil were excavated and disposed in September 2000. A Technical Memorandum for NFA was submitted in January 2002. It was determined that ecological risks at the site are negligible. An NFA PP was issued in June 2002, and an NFA ROD was signed in October 2002.</p>					

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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
45	OU 11	Facility 11, Steam Generating Plant	1941 to 1999	Benzo(a)pyrene, arsenic, and vanadium	Activities related to steam generation	Limited information on practices at the site. Activities are related to steam generation for the base.
	<p><u>Current Investigative Status:</u> Initial investigation began in 1995. Beginning in 1998, field investigations were conducted to delineate soil and groundwater contamination. The soil contamination has been delineated, and a final Action Memorandum for soil removal was issued in May 2000. A soil remedial action was conducted in August 2000. The groundwater contamination (vanadium) is being addressed under the RI/FS process. The RI was submitted in June 2001, the FS was submitted in August 2001, and the PP was submitted in July 2003. The final ROD is being prepared for submittal during the 1st quarter of FY 2004. Annual long-term groundwater monitoring (the selected alternative) began in early August 2002. The final Annual Year 1 Groundwater Monitoring report was submitted in February 2003 and recommended no changes to the current program. The Year 2 annual sampling event was performed during August 2003.</p>					
49	OU 5	Skeet Range	1965 to 1998	PAHs and metals	Clay pigeons and lead shot	Recreational skeet shooting
	<p><u>Current Investigative Status:</u> Initial investigation began in 1999. Soil sampling indicated PAH and lead soil contamination. Additional soil sampling from 1999 to 2001 was conducted to delineate the extent of contamination. A draft EE/CA was prepared in August 2001 to evaluate alternatives for site remediation. The final EE/CA was submitted in February 2002. An Action Memorandum for soil removal was submitted in May 2002 and the remedial excavation, which began in August 2002, has yet to be completed due to flooding over parts of the site. Because of the flooding conditions, a revised Remedial Action Work Plan is being prepared for submittal. A draft PP and ROD are scheduled for submittal after the remedial excavation has been completed.</p>					
57	OU 9	Flight Line Building 824A & Day Tank 1 Area	1957 to 1999	BTEX and chlorinated solvents	BTEX from Day Tank 1 Area	Aircraft ground support
	<p><u>Current Investigative Status:</u> Initial investigation began in 1997. In 1999, as part of the MB-18 SAOR, contamination of groundwater with PAHs and chlorinated compounds was reported. Additional well installation and groundwater sampling activities to delineate the extent of contamination were conducted in 2000. Because of the proximity to existing Day Tank 1 wells (Petroleum Program), and because of the presence of some common groundwater contaminants (BTEX components), it was decided in April 2001 that a comprehensive evaluation of groundwater in the entire area was required under the Installation Restoration (IR) program. The RI work plan for this investigation was submitted in August 2001, and the RI field investigation occurred from September to December 2001. The final RI report was submitted in August 2002, the final FS report was submitted in October 2002, and the final PP recommending long-term monitoring with LUCs as the remedial action for this site was submitted in July 2003. A final ROD is scheduled for submittal during the 1st quarter of FY 2004. A final Remedial Design Work Plan for Long-Term Monitoring was submitted in April 2003, and the initial two quarterly groundwater monitoring events occurred in May 2003 and July 2003. The next monitoring event is scheduled for late October 2003.</p>					
58	OU 9	Flight Line Building 312	1957 to 1999	BTEX and chlorinated solvents	UST, oil/water separator, wash rack and paint booth	Aircraft maintenance
	<p><u>Current Investigative Status:</u> Initial investigation began in 1996 as part of the Petroleum Program. The SAR reported naphthalene and metals in groundwater and arsenic in sediment in excess of criteria. Resampling of an existing well in 1999 showed naphthalene and dissolved iron in excess of criteria. A SAR Addendum issued in 1999 recommended evaluation of groundwater under the Petroleum Program. Phase I and Phase II groundwater investigations conducted in 2000 included sampling of new and existing wells and reported exceedances of chlorinated compounds and PAHs. Based on these results, it was decided that the site would be addressed under the IR program. The RI work plan for this investigation was submitted in August 2001, and the RI field investigation occurred in September 2001. The final RI report was submitted in August 2002, the final FS report was submitted in October 2002, and the final PP recommending Long-Term Monitoring with LUCs as the remedial action was submitted in July 2003. A final ROD is scheduled for submittal during the 1st quarter of FY 2004. A final Remedial Design Work Plan for Long-Term Monitoring was submitted in April 2003, and the initial two quarterly groundwater monitoring events occurred in May 2003 and July 2003. The next monitoring event is scheduled for late October 2003.</p>					

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Site No.	Operable Unit (OU)	Site Name/Size	Period of Operation	Waste Type	Sources	Description of Activity
PSC 51	--	Golf Course	1950s to present	Pesticides and metals	Golf course	Limited information on practices. Site activities are an active golf course.
<p><u>Current Investigative Status:</u> Initial investigation began in April 1999. Field investigations were conducted to delineate soil contamination. The groundwater, surface water, and sediment in the streams and ponds were investigated and a Technical Memorandum for NFA was submitted in November 1999. A revised Technical Memorandum recommending no further action at this site was submitted in September 2003.</p>						
OGC	OU 12	Old Golf Course	1940s to 1950s	Pesticides and arsenic	Golf course	Limited information on practices. Site activities were an active golf course until the 1950s.
<p><u>Current Investigative Status:</u> Initial investigation began in 1993. Field investigations were conducted between November 1999 and May 2000 to delineate soil contamination at the former tee boxes and greens. A final Action Memorandum for soil removal was submitted in July 2000, and 480 tons of soil were excavated and disposed in August 2000. A Technical Memorandum for NFA was submitted in August 2001. An NFA PP was issued in June 2002, and a NFA ROD was signed in October 2002.</p>						

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SITE DESCRIPTION CHART
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Site Name	Site Location	Waste Type	Sources	Description of Activity
Jet Engine Test Cell/Building 334	Adjacent to Building 339	JP-5 Jet Fuel	Two 20,000-gallon asphalt-coated, steel tanks with corrosion-resistant metal piping with cathodic protection installed in 1953 (Tanks 339-TC1 and 339-TC2). One 5,000-gallon steel AST (339-TC3) (removed in 1995).	Past releases have occurred due to tank overfilling. In October 1989, efforts to leak test Tanks TC1 and TC2 failed when inadequate seals were discovered between the manway covers and tank walls.
<p><u>Current Investigative Status:</u> A Preliminary Contamination Assessment (CA) was initiated in December 1990 by ABB Environmental Services, Inc. (ABB-ES). United States Corps Of Engineers (U.S. COE) conducted a soil investigation in January 1991. The CA was completed in 1993 and a Contamination Assessment Report (CAR) Addendum (CARA) was submitted in March 1994. A CARA II was submitted in November 1994. Subsequently, an Alternate Procedures Request (APR) for free-product recovery was submitted on August 4, 1995. The Remedial Action Plan (RAP) submitted on November 22, 1996 was approved by FDEP in February 1997. Monitoring wells and piezometers within the soil excavation area were abandoned in June 1997. A letter report identifying a variation in soil treatment from thermal treatment to biopiles was submitted in July 1997. IRA for soil excavation was completed in September 1997. Soil removal activities took place during the first quarter of FY 1999. Quarterly natural attenuation sampling has been temporarily suspended pending completion of an additional investigation. Additional assessment activities were conducted in May and June 2001 using direct push technology (DPT) / mobile laboratory followed by installation of permanent monitoring wells to further delineate the dissolved hydrocarbon plume. The SAR Addendum was prepared and concluded that two plumes exist on site and some additional soil removal is required on the south side of Building 334. Two other areas where contaminated soil could not be excavated were recommended for institutional controls to prevent exposure. A RAP was recommended to address the contaminated (accessible) soil and groundwater on the site. The RAP was submitted on September 27, 2002. FDEP issued a response on November 30, 2002 requesting additional information and clarification. A RAP Addendum was submitted on January 20, 2003 and approved by FDEP on February 18, 2003.</p>				
<p><u>Other Information:</u> Part of Building 339 was demolished and rebuilt in June 1991. About 137.6 tons of soil were sent to Anderson Columbia for incineration. A 200-gallon spill occurred adjacent to Building 339 in July 1995. Soil was excavated and placed in 55-gallon drums.</p>				
Sal Taylor Creek Containment Areas (Dam Sites)	Along Sal Taylor Creek	JP-5 Jet Fuel	JP-5 fuel spill from the North Fuel Farm (NFF) Tank 76E that occurred on February 10, 1991.	The seven dam sites are located along Sal Taylor Creek and emergency response actions were conducted at these sites after the February 10, 1991 spill. Heavy equipment and vacuum trucks were used to recover the fuel from Sal Taylor Creek.
<p><u>Current Investigative Status:</u> This site covers a total of 7 areas and includes the Aviation Ordnance (AVORD) Dam Site, the North Containment Pond Site, the AVORD Perimeter Road Site, the Gate 10 Dam Site, the Alpha Dam Site, the Possum Dam Site, and the Gate 14 Dam Site. A CA was conducted in 1991 and 1994. The field investigation included soil borings, surface water and sediment sampling, and monitoring well installation. A CAR was submitted in July 1994. Based on FDEP comments, further investigations were conducted in 1995. The investigations included toxicity assessment and surface water and sediment sampling. A CARA was submitted in March 1996 and approved by FDEP in May 1996. Per BCT recommendations, sediment samples were collected for toxicity testing in December 1996. Samples were collected from the dam sites where biomonitoring or remediation was recommended in the CARA. Toxicity testing results were submitted in February 1997. A CAR Addendum recommending NFA at all dam sites, except Possum Dam, was submitted on May 19, 1997. An additional sample was collected at the Possum Dam site in December 1997. A CAR Addendum recommending NFA at Possum Dam was submitted in February 1998.</p>				
103 rd Street Pipeline	Intersection of 103 rd and Ave. A	Type JP-5 Jet fuel	A "pinhole" leak in the 8-inch pipeline conveying fuel from NAS Jacksonville to NAS Cecil Field was discovered and repaired in the Spring of 1997.	Following discovery of the release, an IRA was performed to remove petroleum impacted soils and to repair the pipeline. The pipeline was then taken out of service. In the spring of 1998, a site assessment was initiated.
<p><u>Current Investigative Status:</u> Investigation activities were conducted from September to December 1998 to delineate free product and a Site Assessment Report (SAR) was submitted in February 1999. A RAP was submitted in August 1999 recommending AS/SVE to address soil and groundwater plumes. The installation of the AS/SVE system was completed in the 3rd quarter of FY 2000, it began operation in June 2000, and continues to operate as of September 2002. This is a Remedial Action Contractor (RAC) site.</p>				

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Site Name	Site Location	Waste Type	Sources	Description of Activity
JP-5 Spill Area	Adjacent to Tank 76-E, northeast corner of NFF	JP-5 Jet Fuel	February 10, 1991 JP-5 fuel spill	On February 10, 1991, JP-5 fuel overflowed from Tank 76-E. The fuel flowed down the slope on the east side of the earth-mounded tank into a small ditch that discharges into Sal Taylor Creek.
<p><u>Current Investigative Status:</u> A preliminary CA was conducted in 1991 and a CA was conducted from May 27 through June 5, 1992. The investigation included soil borings and monitoring well installation and the CAR was submitted in July 1994. Based on FDEP comments on the CAR, further investigations were conducted in 1995. A CARA, submitted in March 1996, was approved by FDEP in May 1996. Recommendations for remedial actions were included in the RAP for the NFF site. Supplemental samples were collected in September 1997, and a CAR letter report was submitted in November 1997.</p> <p><u>Other Information:</u> From September 1995 through January 1996, an IRA was conducted by Bechtel. The IRA included removal of about 2,750 cubic yards of contaminated soil (>1000 ppm) from the site. Additional soil removal activities were performed in July and August 1999. Additional assessment is being conducted under the NFF investigation.</p>				
South Fuel Farm	Facility 43, south of intersection of 2nd Street and "A" Avenue	JP-5 Jet Fuel	Several tanks that were removed in the 1990s.	Location of several ASTs, USTs, and EMTs. All ASTs were removed in 1995 and all USTs and EMTs (except Tank 342-DT) were removed in July 1994.
<p><u>Current Investigative Status:</u> CA was completed in December 1991 and CAR was submitted in July 1992. Upon review of CAR, FDEP requested additional investigation at this site. Supplemental investigation was completed in July 1995 and CARA was submitted in January 1996. The CARA was approved in April 1996. A RAP addendum submitted on October 28, 1996 was approved by FDEP in February 1997. The remedial system (biosparging) was installed in February 1998 and system start-up activities were completed in March 1998. The remedial system was operating, but not to the satisfaction of the Navy. A supplemental site investigation and system evaluation were completed in November 2002. Currently, additional soil sampling is being performed to better define the extent of soil contamination.</p>				
Truck Stand Site	Loop road south of NFF	JP-5 Jet Fuel	Used as loading station for the flightline refueling tank trucks. The site consists of a control building, a pumping station, asphalt and concrete parking area, and a retention pond.	Probable spills and soil staining
<p><u>Current Investigative Status:</u> A preliminary CA was conducted in 1990. A CA was completed in 1991 and CAR was submitted in May 1992. Subsequently, CARA was submitted in July 1994. Upon review of CARA, FDEP recommended additional investigation that included monitoring well installation, collection of groundwater samples, and advancement of soil borings. CARA was submitted to FDEP in March 1996. The CARA II was approved by FDEP in April 1996. The Monitoring Only Plan, submitted on December 6, 1996, was approved in February 1997. The four quarterly sampling events were completed. A letter report presenting the sampling results for the 1st, 2nd, and 3rd quarter sampling was submitted. The annual monitoring report was submitted in June 1998. Monitoring activities have been changed to semi-annual events. The first semi-annual event was conducted and associated report was submitted in October 1998. Additional contaminated soil was removed in August 2000 and a sampling event was performed in March 2000. The September 2000 semi-annual groundwater sampling event was postponed because several monitoring wells were destroyed during the source removal activities. The monitoring wells were replaced and the sampling resumed in February 2001, and a report was submitted in April 2001. The April 2001 sampling report recommended that a RAP be prepared. The FDEP concurred with the recommendation. Prior to preparation of the RAP, the BCT agreed to a supplemental assessment to better delineate the groundwater plume. The fieldwork began during the 4th quarter of FY 2002, and it was completed in January 2003. A letter report describing the results of the supplemental work was submitted in June 2003 and is currently in regulatory review.</p> <p><u>Other Information:</u> An IRA to remove soils saturated with free product was completed in May 1996. Approximately 1,000 cubic yards of soil were excavated. An RA report was submitted in June 1996.</p>				

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Site Name	Site Location	Waste Type	Sources	Description of Activity
Sal Taylor Creek Bank Sites	Along Sal Taylor Creek	JP-5 Jet Fuel	February 1991 JP-5 fuel spill	Activities were conducted after the fuel spill.
<p><u>Current Investigative Status:</u> Nine locations along the banks of Sal Taylor Creek were investigated to determine extent of soil and groundwater contamination due to the 1991 fuel spill. Results of the 1992-93 investigation were presented in the July 1994 CAR. Per FDEP recommendations, additional investigations were completed in September 1995. The CARA submitted in March 1996 was approved by FDEP in April 1996. The CARA recommended natural biodegradation for the remedial action at these sites. Temporary wells were installed in December 1996 at the two locations recommended by FDEP. Groundwater samples were collected from these wells in January 1997. A CARA presenting the groundwater sampling results from the temporary wells, along with a recommendation for NFA, was submitted on June 16, 1997. The NFA recommendation was approved by FDEP.</p>				
Day Tank 1	Northeast of Jet Road	JP-5 Jet Fuel	200,000-gallon interior-lined asphalt-coated steel tank containing JP-5. Tank was installed in 1956.	Location of fuel spill in 1981; approximately 497,000 gallons of JP-5 fuel were spilled due to overfill; approximately 250,000 gallons were recovered.
<p><u>Current Investigative Status:</u> Geraghty and Miller conducted a preliminary CA in 1981. CA was initiated by ABB-ES in December 1990. The CA was completed in 1993 and a CAR Addendum was submitted to FDEP in December 1993. A RAP was submitted to FDEP in May 1994. The RAP was not approved by FDEP. Consequently, an alternate procedures request (APR) was submitted to FDEP in August 1995 to recover free product. The APR was approved in September 1995. Per FDEP recommendation, five additional wells were installed and sampled in September 1995. The revised RAP was submitted in January 1997. During the June 3, 1997 BCT meeting, the partnering team requested a letter memorandum presenting a phased approach for the RA. The letter memorandum was submitted in July 1997. Natural attenuation sampling took place during the 2nd quarter of FY 1999. Natural attenuation sampling was subsequently discontinued. Day Tank 1 was removed in December 1999 and the excavation of the soil mound occurred in December 1999 and January 2000. Semi-annual groundwater monitoring was conducted in July 2000 and January 2001. Shortly afterward, it was determined that the petroleum plume from Day Tank 1 was co-mingling with a chlorinated solvent plume under investigation near Building 824A. The BCT decided to postpone further groundwater monitoring at Day Tank 1 and expand the scope of the Building 824A (Site 57) to include the Day Tank 1 plume area. The Site 57 investigation also included some free product delineation. At the June 2002 BCT meeting, it was agreed to conduct additional soil delineation outside the original source removal area to address soil contamination encountered by the RAC. In August 2002, an FID was used to delineate soil contamination based on headspace measurements. In October and November 2002, soil samples were collected from about 80 locations to delineate the extent of contamination. Additional temporary monitoring wells were installed to confirm the extent of free product. Additional delineation of soil contamination was completed in early September 2003, and excavation of the remaining contaminated soil and the free product is scheduled for late September or early October 2003. This work is currently being performed under the IR program.</p>				
<p><u>Other information:</u> An AS/SVE system was installed by JA Jones/CH2M Hill in 2000, and continues to operate. In February 2002, JA Jones began working to locate and close the pipeline that exists between Day Tank 1 and the North-South High Speed Refuelers.</p>				

TABLE 1-2

**SITE DESCRIPTION CHART
PETROLEUM PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
PAGE 4 OF 6**

Site Name	Site Location	Waste Type	Sources	Description of Activity
North Fuel Farm Area	Northeast corner of A Avenue and Loop road	JP-5 Fuel	Six 595,000-gallon, interior-lined, asphalt-coated, steel, earth-mounded tanks (76, 76A through 76E). Tanks 76 and 76A were installed in 1952 and remaining tanks were installed in 1954. In 1987, all tanks were relined and overfill protection was installed. In addition, tank 76 was equipped with automatic shut-off system. Tank 76E was taken out of service in 1991.	22,772-gallon spill on August 3, 1987; 913,000-gallon spill on February 10, 1991; and 1,800-gallon spill on November 28, 1993
<p><u>Initial Remedial Action:</u> Completed installation of a catalytic oxidizer at the NFF site. Also installed 15 extraction wells. Nine of these extraction wells were connected to the bioslurper unit. Quarterly groundwater sampling was completed during this reporting period. Continued free-product recovery activities. The bioslurper system was shut down in April 1998, but the groundwater sumps are being operated.</p> <p><u>Current Investigative Status:</u> CA was completed in 1991. The CAR was submitted in June 1992. Supplemental investigation was completed in 1993/94. Field work was conducted in April 1994 to investigate the 1,800-gallon spill. In July 1994, FDEP recommended additional investigation that was completed in 1995. CAR Addendum was submitted in April 1996. Subsequently, the CAR Addendum was approved by FDEP. Supplemental assessment recommended by the BCT was completed in November 1996. The RAP and the revised CAR Addendum were submitted in January 1997. FDEP comments for the NFF remedial action plan were reviewed at the June 1997 BCT meeting. Supplemental soil samples were collected in September 1997 and the results were presented in a RAP letter memorandum submitted in November 1997. Additional soil samples for Kerosene Analytical Group (KAG) parameters were collected in April 1998. The BCT recommended that a pilot study be conducted to evaluate recirculation wells as a viable alternative for groundwater treatment. The 1999 recirculation well pilot-scale study showed difficulties in operation of the system. The technology was eliminated in favor of air sparging. A RAP Addendum was submitted in August 1999. This addendum also describes the removal of the tanks, earth mound, and soil beneath the tanks. Natural attenuation sampling took place during the second quarter of FY 1999. Natural attenuation sampling was subsequently discontinued. Semi-annual contaminant monitoring only was conducted until July 2000. This monitoring has been suspended until the source removal action has been completed. The source removal actions began in the 3rd quarter of FY 2000 and were completed in mid-February 2001. Supplemental assessment activities were initiated in July 2001. These activities included the use of DPT/Membrane Interface probe (MIPA) followed by installation of permanent monitoring wells to evaluate the current conditions and impact of the source removal activities recently conducted at the site. Monitoring well installation and sampling was completed in February 2003 and the results indicated the need for additional wells. The additional well installation was completed in July 2003. A draft supplemental SAR is was completed during September 2003 and is currently in review by the Navy.</p> <p><u>Other information:</u> The soil source removal, conducted by JA Jones/CH2M Hill involved the excavation 140,957.03 tons of petroleum-contaminated soil and the recycling of 19,550 gallons of free product and petroleum contact water. The SRR was approved on February 22, 2002.</p>				
Tank 199	Building 199, Southeast corner of C Avenue and 6th Street	Heating oil	2,000-gallon underground heating oil tank	Leaking UST
<p><u>Current Investigative Status:</u> A CA plan was prepared in August 1996. The CA was initiated in September 1996 and the field program was completed in December 1996. The field program included soil borings, well installation, groundwater sampling, aquifer testing, and elevation survey. The CAR was submitted in March 1997. Additional soil samples were collected in September 1997, and the results were presented in a CAR memorandum submitted in November 1997. Soil samples for KAG analysis were collected in March 1998. Soil removal activities took place during the 1st quarter of FY 1999. Natural attenuation monitoring began in July 1999 on a semi-annual basis and was changed to annual after the February 2000 event. Monitoring was performed in January 2001 and January 2002. Continued annual monitoring was recommended. The latest annual sampling event occurred during February 2003, the monitoring report was completed in April 2003, and continued annual monitoring was recommended.</p>				

TABLE 1-2
SITE DESCRIPTION CHART
PETROLEUM PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
PAGE 5 OF 6

Site Name	Site Location	Waste Type	Sources	Description of Activity
Day Tank 2	Facility 342-DT, south of intersection of 2nd street and "A" Avenue	JP-5 fuel	200,000-gallon earth mounded, interior-lined, asphalt-coated, steel tank.	Several USTs and ASTs were located adjacent to the Day Tank 2 facility. In October 1996, free petroleum product was observed in a piezometer located south of Day Tank 2. The release was believed to have been from the tank or associated piping. Approximately 29,000 gallons of free product were recovered. Day Tank 2 was taken out of operation in October 1996 and removed in 1997.
<u>Initial Remedial Action:</u> Day Tank 2 was decommissioned in 1996 and was removed in August 1997				
<u>Current Investigative Status:</u> A CA plan was submitted in June 1997. The field investigation at Day Tank 2 that included installation of several monitoring wells, DPT groundwater screening points, soil borings, and soil sampling in March 1998. SAR was completed in July 1998. A source removal plan was submitted in October 1998, and the removal action was conducted in November 1998. Monitoring wells that were destroyed during the IRA were replaced and sampled in April 1999. A report describing the analytical results was completed in May 1999. Groundwater contamination will be addressed as part of OU 9, Sites 36/37 (see Table 3-1).				
Tank 46 (Includes 46R, 46D, 46SUL, and 46UL)	Building 46 across D Avenue from the Bachelor Officers Quarters	Regular and unleaded gasoline and diesel fuel	A total of eight tanks: - four 2,000-gallon tanks - two 10,000-gallon tanks - two 6,000-gallon tanks	Leaking USTs
<u>Current Investigative Status:</u> A RAP was submitted in March 1999. This RAP included the design of an AS/SVE System for the remediation of contaminated soil and groundwater. The RAP was revised to use a nutrient-enhanced biosparging system to remediate the source area and plume in June 2000. Installation of the remediation system was completed in January 2001, and the system is in operation. The RAC has reported contaminated groundwater exceeding GCTLs in a perimeter well. A supplemental assessment to delineate this contamination began during the 4 th quarter of FY 2002, and was completed in January 2003. A letter report describing the results of the investigation was submitted on May 28, 2003. The report was approved by the FDEP in July 2003. A RAP modification will be required to extend the current system to adequately remediate that part of the groundwater plume that is not currently being affected.				
Tank 9L1 and 9L2	Building 9 near the corner of B Avenue and 3 rd Street	Gasoline	Two tanks, each 1,250 gallons	Leaking USTs
<u>Current Investigative Status:</u> A RAP was submitted in February 1999. This RAP included the design of an AS/SVE system for the remediation of contaminated soil and groundwater. The RAP was revised to use a nutrient-enhanced biosparging system to remediate the source area and plume in June 2000. Installation of the remediation system was completed in January 2001, and the system is currently in operation.				
312 O/W	North side of Building 312 (Corrosion Control Hangar)	Used oil group constituents	One 900 gallon oil/water separator tank	Leaking UST and/or piping
<u>Current Investigative Status:</u> A confirmatory sampling investigation of soil and groundwater was initiated in July 1998. A Confirmation Sampling Report (CSR) was submitted in 1999. The CSR indicated that the site had been impacted by used oil group constituents. A site assessment using DPT/mobile laboratory screening, followed by installation of permanent monitoring wells was conducted. An SAR recommending a source removal and follow-up groundwater monitoring was submitted to the FDEP during April 2002. The FDEP issued a letter indicating that additional assessment was required. The additional assessment activities were completed in mid-July 2003. A Supplemental SAR was issued on September 5, 2003. Soil removal activities began in late September 2003.				
<u>Other information:</u> An SRR was submitted by the RAC on December 16, 2000.				

TABLE 1-2

**SITE DESCRIPTION CHART
PETROLEUM PROGRAM
NAS CECIL FIELD, JACKSONVILLE, FLORIDA
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Site Name	Site Location	Waste Type	Sources	Description of Activity
824 O/W	South side of Building 824 (Avionics Shop)	Used oil group constituents	Oil/water separator (capacity unknown)	Leaking UST and/or piping
<p><u>Current Investigative Status:</u> A confirmatory sampling investigation was initiated in September 1998. A CSR was submitted in 1999. The CSR indicated that the site had been impacted by used oil group constituents. A site assessment using DPT/mobile laboratory screening, followed by the installation of permanent monitoring wells was conducted. The SAR, which recommended NFA for the site. At the August 2002 BCT meeting, the FDEP indicated that the review was complete, and an NFA letter was issued by FDEP on August 29, 2002.</p> <p><u>Other information:</u> An SRR was submitted by the RAC on December 16, 2000.</p>				
North-South Apron Plume	East of Building 815 on eastern edge of north-south flightline apron	Unknown	Possible leakage from storm sewers or downward migration of an upgradient plume from an unknown site.	
<p><u>Current Investigative Status:</u> Earlier investigations indicated that VOCs were present in the groundwater at concentrations that exceeded FDEP GCTLs. Additional assessment activities conducted between November 1999 and November 2000 confirmed that VOCs were present in the groundwater at concentrations that exceeded GCTLs. A SAR was submitted recommending implementation of natural attenuation monitoring. The FDEP issued a Natural Attenuation Monitoring Plan Approval Order in March 2001. The first three quarterly events indicate that groundwater VOC concentrations continue to exceed GCTLs, and the plume appears to be static. A 4th quarterly groundwater-monitoring event was conducted in February 2002. Based on results that indicated the plume is static and still exceeds GCTLs, a supplemental assessment was recommended. The additional assessment began during the 4th quarter of FY 2002. Monitoring was postponed during the supplemental assessment, which was completed in November 2002. A letter report describing the supplemental assessment work and recommending natural attenuation monitoring was submitted for FDEP review on January 14, 2003. An FDEP response, issued on May 2, 2003, requested additional assessment to delineate vertical extent of contamination. The installation and sampling of additional wells was completed in July 2003, and a second supplemental assessment report is being prepared.</p>				
BP Wells	Southeast of Building 880 on western edge of the north-south flightline apron			
<p><u>Current Investigative Status:</u> A groundwater investigation was conducted in 1999. The results from the 1999 investigation indicated that COCs in groundwater exceeded GCTLs in two monitoring wells. Additional assessment activities were conducted in February 2000. A SAR was submitted in August 2000. The SAR indicated that the groundwater had been impacted by VOCs. In response to the SAR, the FDEP issued a Natural Attenuation Monitoring Plan Approval Order. The 1st semi-annual monitoring event was conducted in April 2001. The first semi-annual monitoring report noted increasing contaminant concentrations and recommended additional monitoring. The 2nd semi-annual monitoring event was conducted, and the subsequent report noted a continuing increase in contaminant concentrations and recommended preparation of a RAP. The FDEP recently concurred with that recommendation. The Navy has given approval to conduct a treatability study at this site using iSOC (in-situ oxygen curtain) technology. The iSOC system was installed and began operation in October 2002 after conducting a baseline groundwater sampling event. The 1st quarterly sampling event was conducted in January 2003. The 1st Quarter Monitoring Report was issued to the FDEP on April 22, 2003. The 2nd Quarter operating and maintenance (O&M) and sampling event was conducted on April 17, 2003, and the report was issued on August 11, 2003. The 3rd Quarter O&M and sampling event was conducted on July 17, 2003, and the report is currently in preparation.</p>				

protocols for sites being investigated under the Petroleum Program. Based on reuse, each tank was assessed and investigated as funding became available. After completion of the Phase I Petroleum Program investigation, some sites required a Contamination Assessment (CA) followed by a Remedial Action (RA) Plan (RAP) and then RA. The partnering team will evaluate recommendations provided by the consultants and then evaluate the need for further investigation and/or other efforts required at these sites.

1.4 BASE REALIGNMENT AND CLOSURE PROGRAM

Over 200 parcels of land were investigated under the BRAC program. Environmental issues or concerns at the BRAC sites have been identified in the Environmental Baseline Survey (EBS) (ABB-ES, 1994). The parcels have been color-coded to identify those available for transfer or that need further investigation and remediation. Environmental investigations and remediation have been conducted at many of the BRAC sites to date. However, due to the large number of sites and relatively short duration of the investigation report preparation and review process, a detailed current status of the BRAC sites in the form of a table has not been included in the SMP.

1.5 SCHEDULE

The SMP schedule presents IRP, Petroleum Program, and BRAC Program deliverables. Submittal dates to the FFA parties for IRP activities are presented in Appendix A, Petroleum Program activities are presented in Appendix B, and BRAC Program activities are presented in Appendix C. These schedules present past and proposed activities for FYs 2002 through 2005. As part of the SMP, the FFA parties will meet regularly to assess the progress. The schedules will be used as a baseline schedule for FY 2004 activities. Schedule impacts will be noted in the baseline schedule and presented in the text of the quarterly progress reports. Potential schedule delays will be discussed at the monthly Partnering Team meetings.

APPENDIX A

**INSTALLATION RESTORATION PROGRAM
SCHEDULE**

INSTALLATION RESTORATION PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1 & 2	OPERABLE UNIT 1	2907 days	Mon 9/15/97	Tue 8/30/05																																																
	SITE 1 (Old Landfill) & SITE 2 (New Landfill)	2907 days	Mon 9/15/97	Tue 8/30/05																																																
	Long-Term Monitoring	2907 days	Mon 9/15/97	Tue 8/30/05																																																
	Regulatory Review (FDEP Review)	73 days	Wed 8/1/01	Fri 10/12/01																																																
	Prepare Final Annual LTMR - Year 4	19 days	Mon 10/15/01	Fri 11/2/01																																																
	Submit Final Annual LTMR - Year 4	0 days	Fri 11/2/01	Fri 11/2/01																																																
	Groundwater Sampling - Annual Year 5	1 day	Mon 5/6/02	Mon 5/6/02																																																
	Prepare Draft Annual LTMR - Year 5	29 days	Wed 6/5/02	Wed 7/3/02																																																
	Submit Draft Annual LTMR - Year 5	0 days	Wed 7/3/02	Wed 7/3/02																																																
	Regulatory Review	97 days	Fri 7/5/02	Wed 10/9/02																																																
	Prepare Final Annual LTMR - Year 5	62 days	Thu 10/10/02	Tue 12/10/02																																																
	Submit Final Annual LTMR - Year 5	0 days	Tue 12/10/02	Tue 12/10/02																																																
	Groundwater Sampling - Annual Year 6	1 day	Mon 5/5/03	Mon 5/5/03																																																
	Prepare Draft Annual LTMR - Year 6	136 days	Mon 6/2/03	Wed 10/15/03																																																
	Submit Draft Annual LTMR - Year 6	0 days	Wed 10/15/03	Wed 10/15/03																																																
	Regulatory Review	47 days	Thu 10/16/03	Mon 12/1/03																																																
	Prepare Final Annual LTMR - Year 6	15 days	Tue 12/2/03	Tue 12/16/03																																																
	Submit Final Annual LTMR - Year 6	0 days	Tue 12/16/03	Tue 12/16/03																																																
	Groundwater Sampling - Annual Year 7	4 days	Mon 4/19/04	Thu 4/22/04																																																
	Prepare Draft Annual LTMR - Year 7	37 days	Mon 5/17/04	Tue 6/22/04																																																
	Submit Draft Annual LTMR - Year 7	0 days	Tue 6/22/04	Tue 6/22/04																																																
	Regulatory Review	45 days	Wed 6/23/04	Fri 8/6/04																																																
	Prepare Final Annual LTMR - Year 7	15 days	Mon 8/9/04	Mon 8/23/04																																																
	Submit Final Annual LTMR - Year 7	0 days	Mon 8/23/04	Mon 8/23/04																																																
	Groundwater Sampling - Annual Year 8	2 days	Mon 4/18/05	Tue 4/19/05																																																
	Prepare Draft Annual LTMR - Year 8	46 days	Mon 5/16/05	Thu 6/30/05																																																
	Submit Draft Annual LTMR - Year 8	0 days	Thu 6/30/05	Thu 6/30/05																																																
	Regulatory Review	46 days	Fri 7/1/05	Mon 8/15/05																																																
	Prepare Final Annual LTMR - Year 8	15 days	Tue 8/16/05	Tue 8/30/05																																																
	Submit Final Annual LTMR - Year 8	0 days	Tue 8/30/05	Tue 8/30/05																																																
Decision Documents	1322 days	Fri 9/1/00	Wed 4/14/04																																																	
Regulatory Review & Comment Resolution	930 days	Thu 6/14/01	Tue 12/30/03																																																	
Prepare Final OPSD Report	26 days	Mon 2/2/04	Fri 2/27/04																																																	
Submit Final OPSD Report	0 days	Fri 2/27/04	Fri 2/27/04																																																	
Regulatory Approval	45 days	Mon 3/1/04	Wed 4/14/04																																																	
Prepare Draft ESD (Multiple Sites)	39 days	Mon 5/12/03	Thu 6/19/03																																																	
Submit Draft ESD (Multiple Sites)	0 days	Thu 6/19/03	Thu 6/19/03																																																	
Regulatory Review	112 days	Fri 6/20/03	Thu 10/9/03																																																	
Prepare Final ESD (Multiple Sites)	22 days	Fri 10/10/03	Fri 10/31/03																																																	
Submit Final ESD (Multiple Sites)	0 days	Fri 10/31/03	Fri 10/31/03																																																	
Prepare Draft LUC	12 days	Mon 1/5/04	Fri 1/16/04																																																	
Submit Draft LUC	0 days	Fri 1/16/04	Fri 1/16/04																																																	
Regulatory Review	45 days	Mon 1/19/04	Wed 3/3/04																																																	
Prepare Final LUC	16 days	Thu 3/4/04	Fri 3/19/04																																																	
Submit Final LUC	0 days	Fri 3/19/04	Fri 3/19/04																																																	
5	OPERABLE UNIT 2	3051 days	Thu 5/15/97	Tue 9/20/05																																																
	SITE 5 - Old Disposal Area Northwest	3032 days	Tue 6/3/97	Tue 9/20/05																																																
	Long-Term Monitoring	2819 days	Fri 1/2/98	Tue 9/20/05																																																
	Regulatory Review and Comment Resolution	254 days	Mon 6/18/01	Tue 2/26/02																																																
	Prepare Final IRA & Annual GWMR - Year 3	9 days	Wed 2/27/02	Thu 3/7/02																																																
	Submit Final IRA & Annual GWMR - Year 3	0 days	Thu 3/7/02	Thu 3/7/02																																																
Groundwater Sampling - 2nd SA Year 4	1 day	Fri 2/8/02	Fri 2/8/02																																																	
Prepare Draft Annual GWMR - Year 4	78 days	Wed 3/6/02	Wed 5/22/02																																																	

Project: IR-0101
Date: Thu 11/13/03

Draft Document ▼ Final Document ▲ Remedial Action ◆ External Milestone ◆ Deadline ⇩

INSTALLATION RESTORATION PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
7	SITE 7 - Old Firefighter Training Area	2131 days	Sat 11/15/97	Mon 9/15/03																																																
	Long-Term Monitoring	1862 days	Tue 8/11/98	Mon 9/15/03																																																
	Prepare Draft Annual GWMR - Year 4	86 days	Mon 8/6/01	Tue 10/30/01																																																
	Submit Draft Annual GWMR - Year 4	0 days	Tue 10/30/01	Tue 10/30/01																																																
	Regulatory Review	43 days	Wed 10/31/01	Wed 12/12/01																																																
	Prepare Final Annual GWMR - Year 4	44 days	Thu 12/13/01	Fri 1/25/02																																																
	Submit Final Annual GWMR - Year 4	0 days	Fri 1/25/02	Fri 1/25/02																																																
	Groundwater Sampling - Quarterly Event	1 day	Fri 10/26/01	Fri 10/26/01																																																
	Prepare Quarterly GWM Presentation	31 days	Mon 10/29/01	Wed 11/28/01																																																
	Submit Quarterly GWM Presentation	0 days	Wed 11/28/01	Wed 11/28/01																																																
	Groundwater Sampling - Annual Year 5	1 day	Wed 7/24/02	Wed 7/24/02																																																
	Prepare Draft Annual GWMR - Year 5	51 days	Thu 8/22/02	Fri 10/11/02																																																
	Submit Draft Annual GWMR - Year 5	0 days	Fri 10/11/02	Fri 10/11/02																																																
	Regulatory Review	59 days	Mon 10/14/02	Wed 12/11/02																																																
	Prepare Final Annual GWMR - Year 5	62 days	Thu 12/12/02	Tue 2/11/03																																																
	Submit Final Annual GWMR - Year 5	0 days	Tue 2/11/03	Tue 2/11/03																																																
	Groundwater Sampling - Supp 1st Q Year 5	0 days	Tue 2/18/03	Tue 2/18/03																																																
	Prepare Supplemental GWM Presentation	23 days	Mon 2/24/03	Tue 3/18/03																																																
	Submit Supplemental GWM Presentation	0 days	Tue 3/18/03	Tue 3/18/03																																																
	Groundwater Sampling - Close Out Confirmation	1 day	Fri 5/2/03	Fri 5/2/03																																																
	Prepare Draft Final Remedial Action Report	25 days	Mon 5/19/03	Thu 6/12/03																																																
Submit Draft Final Remedial Action Report	0 days	Thu 6/12/03	Thu 6/12/03																																																	
Regulatory Review	54 days	Fri 6/13/03	Tue 8/5/03																																																	
Prepare Final Remedial Action Report	41 days	Wed 8/6/03	Mon 9/15/03																																																	
Submit Final Remedial Action Report	0 days	Mon 9/15/03	Mon 9/15/03																																																	
8	SITE 8 - Boresite Range/Hazardous Waste Storage/Firefighter Traininr	2851 days	Mon 12/1/97	Tue 9/20/05																																																
	Long-Term Monitoring	2594 days	Sat 8/15/98	Tue 9/20/05																																																
	Prepare Final IRA & Annual GWMR - Year 3	225 days	Fri 6/29/01	Fri 2/8/02																																																
	Submit Final IRA & Annual GWMR - Year 3	0 days	Fri 2/8/02	Fri 2/8/02																																																
	Groundwater Sampling - 2nd SA Year 4	1 day	Thu 1/31/02	Thu 1/31/02																																																
	Prepare Draft Annual GWMR - Year 4	86 days	Tue 2/26/02	Wed 5/22/02																																																
	Submit Draft Annual GWMR - Year 4	0 days	Wed 5/22/02	Wed 5/22/02																																																
	Regulatory Review	90 days	Thu 5/23/02	Tue 8/20/02																																																
	Prepare Final Annual GWMR - Year 4	112 days	Wed 8/21/02	Tue 12/10/02																																																
	Submit Final Annual GWMR - Year 4	0 days	Tue 12/10/02	Tue 12/10/02																																																
	Groundwater Sampling - 1st SA Year 5	1 day	Wed 7/24/02	Wed 7/24/02																																																
	Prepare GWM Presentation - 1st SA Year 5	28 days	Thu 8/22/02	Wed 9/18/02																																																
	Submit GWM Presentation - 1st SA Year 5	0 days	Wed 9/18/02	Wed 9/18/02																																																
	Groundwater Sampling - 2nd SA Year 5	1 day	Fri 1/31/03	Fri 1/31/03																																																
	Prepare Draft Annual GWMR - Year 5	178 days	Mon 3/3/03	Wed 8/27/03																																																
	Submit Draft Annual GWMR - Year 5	0 days	Wed 8/27/03	Wed 8/27/03																																																
	Regulatory Review	91 days	Thu 8/28/03	Wed 11/26/03																																																
	Prepare Final Annual GWMR - Year 5	12 days	Mon 12/1/03	Fri 12/12/03																																																
	Submit Final Annual GWMR - Year 5	0 days	Fri 12/12/03	Fri 12/12/03																																																
	Groundwater Sampling - 1st SA Year 6	1 day	Mon 8/4/03	Mon 8/4/03																																																
	Prepare GWM Presentation - 1st SA Year 6	78 days	Tue 9/2/03	Tue 11/18/03																																																
Submit GWM Presentation - 1st SA Year 6	0 days	Tue 11/18/03	Tue 11/18/03																																																	
Groundwater Sampling - 2nd SA Year 6	2 days	Wed 1/28/04	Thu 1/29/04																																																	
Prepare Draft Annual GWMR - Year 6	65 days	Thu 2/26/04	Fri 4/30/04																																																	
Submit Draft Annual GWMR - Year 6	0 days	Fri 4/30/04	Fri 4/30/04																																																	
Regulatory Review	45 days	Mon 5/3/04	Wed 6/16/04																																																	
Prepare Final Annual GWMR - Year 6	15 days	Thu 6/17/04	Thu 7/1/04																																																	
Submit Final Annual GWMR - Year 6	0 days	Thu 7/1/04	Thu 7/1/04																																																	

Project: IR-0101
Date: Thu 11/13/03

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 External Milestone ◆
 Deadline ⇩

INSTALLATION RESTORATION PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
	Regulatory Review	138 days	Mon 10/8/01	Fri 2/22/02																																																
	Prepare Final Technical Memorandum	31 days	Mon 2/25/02	Wed 3/27/02																																																
	Submit Final Technical Memorandum	0 days	Wed 3/27/02	Wed 3/27/02																																																
	Prepare Draft Proposed Plan	10 days	Wed 4/17/02	Fri 4/26/02																																																
	Submit Draft Proposed Plan	0 days	Fri 4/26/02	Fri 4/26/02																																																
	Regulatory Review	24 days	Mon 4/29/02	Wed 5/22/02																																																
	Prepare Final Proposed Plan	12 days	Thu 5/23/02	Mon 6/3/02																																																
	Submit Final Proposed Plan	0 days	Mon 6/3/02	Mon 6/3/02																																																
	Public Comment Period	31 days	Fri 6/7/02	Sun 7/7/02																																																
	Prepare Draft ROD	17 days	Wed 4/17/02	Fri 5/3/02																																																
	Submit Draft ROD	0 days	Fri 5/3/02	Fri 5/3/02																																																
	Regulatory Review	29 days	Mon 5/6/02	Mon 6/3/02																																																
	Prepare Final ROD	92 days	Mon 7/8/02	Mon 10/7/02																																																
	Submit Final ROD	0 days	Mon 10/7/02	Mon 10/7/02																																																
44	Site 44 DRMO Ditch	1246 days	Tue 5/11/99	Mon 10/7/02																																																
	Prepare Final Technical Memorandum	165 days	Tue 7/31/01	Fri 1/11/02																																																
	Submit Final Technical Memorandum	0 days	Fri 1/11/02	Fri 1/11/02																																																
	Prepare Draft Proposed Plan	10 days	Wed 4/17/02	Fri 4/26/02																																																
	Submit Draft Proposed Plan	0 days	Fri 4/26/02	Fri 4/26/02																																																
	Regulatory Review	24 days	Mon 4/29/02	Wed 5/22/02																																																
	Prepare Final Proposed Plan	12 days	Thu 5/23/02	Mon 6/3/02																																																
	Submit Final Proposed Plan	0 days	Mon 6/3/02	Mon 6/3/02																																																
	Public Comment Period	31 days	Fri 6/7/02	Sun 7/7/02																																																
	Prepare Draft ROD	20 days	Wed 4/17/02	Mon 5/6/02																																																
	Submit Draft ROD	0 days	Mon 5/6/02	Mon 5/6/02																																																
	Regulatory Review	28 days	Tue 5/7/02	Mon 6/3/02																																																
	Prepare Final ROD	92 days	Mon 7/8/02	Mon 10/7/02																																																
	Submit Final ROD	0 days	Mon 10/7/02	Mon 10/7/02																																																
NA	OLD GOLF COURSE	1068 days	Fri 11/5/99	Mon 10/7/02																																																
	Prepare Draft Proposed Plan	30 days	Thu 3/21/02	Fri 4/19/02																																																
	Submit Draft Proposed Plan	0 days	Fri 4/19/02	Fri 4/19/02																																																
	Regulatory Review	31 days	Mon 4/22/02	Wed 5/22/02																																																
	Prepare Final Proposed Plan	12 days	Thu 5/23/02	Mon 6/3/02																																																
	Submit Final Proposed Plan	0 days	Mon 6/3/02	Mon 6/3/02																																																
	Public Comment Period	31 days	Fri 6/7/02	Sun 7/7/02																																																
	Prepare Draft ROD	21 days	Wed 4/17/02	Tue 5/7/02																																																
	Submit Draft ROD	0 days	Tue 5/7/02	Tue 5/7/02																																																
	Regulatory Review	27 days	Wed 5/8/02	Mon 6/3/02																																																
	Prepare Final ROD	92 days	Mon 7/8/02	Mon 10/7/02																																																
	Submit Final ROD	0 days	Mon 10/7/02	Mon 10/7/02																																																
	POTENTIAL SOURCES OF CONTAMINATION	2125 days	Sat 11/15/97	Tue 9/9/03																																																
39	PSC 39 MB18 Storm Water Outfalls	1180 days	Tue 5/11/99	Fri 8/2/02																																																
	Prepare Draft Technical Memorandum	175 days	Thu 5/31/01	Wed 11/21/01																																																
	Submit Draft Technical Memorandum	0 days	Wed 11/21/01	Wed 11/21/01																																																
	Regulatory Review	131 days	Mon 11/26/01	Fri 4/5/02																																																
	Prepare Final Technical Memorandum	117 days	Mon 4/8/02	Fri 8/2/02																																																
	Submit Final Technical Memorandum	0 days	Fri 8/2/02	Fri 8/2/02																																																
52	PSC 52 Facility 314	914 days	Tue 5/11/99	Fri 11/9/01																																																
	Prepare Final Technical Memorandum (Rev 1)	274 days	Fri 2/9/01	Fri 11/9/01																																																
	Submit Final Technical Memorandum (Rev 1)	0 days	Fri 11/9/01	Fri 11/9/01																																																
NA	PSC 51 Golf Course (Facility 239)	1623 days	Thu 4/1/99	Tue 9/9/03																																																
	Prepare Draft Technical Memorandum (Rev 1)	129 days	Tue 1/15/02	Thu 5/23/02																																																
	Submit Draft Technical Memorandum (Rev 1)	0 days	Thu 5/23/02	Thu 5/23/02																																																

Project: IR-0101
Date: Thu 11/13/03

Draft Document ▼
 Final Document ▲
 Remedial Action ◆
 External Milestone ◆
 Deadline ⇩

APPENDIX B

**PETROLEUM PROGRAM
SCHEDULE**

PETROLEUM PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
13	DAY TANK 1	3316 days	Mon 9/2/96	Fri 9/30/05																																																
	Remedial Action - AS/SVE System Operation	2069 days	Tue 2/1/00	Fri 9/30/05																																																
	Regulatory Review	72 days	Tue 9/4/01	Wed 11/14/01																																																
	Submit Construction Completion Report	0 days	Thu 12/6/01	Thu 12/6/01																																																
	Regulatory Review	155 days	Fri 12/7/01	Fri 5/10/02																																																
	Response to Comments (11-14 & 5-10)	0 days	Fri 5/31/02	Fri 5/31/02																																																
	Regulatory Review	54 days	Mon 6/3/02	Fri 7/26/02																																																
	Submit Quarterly O&M Status Report	0 days	Wed 1/9/02	Wed 1/9/02																																																
	Submit Quarterly O&M Status Report	0 days	Mon 3/4/02	Mon 3/4/02																																																
	Regulatory Review	11 days	Tue 3/5/02	Fri 3/15/02																																																
	Submit Annual O&M Status Report	0 days	Mon 4/1/02	Mon 4/1/02																																																
	Regulatory Review	29 days	Tue 4/2/02	Tue 4/30/02																																																
	Submit Quarterly O&M Status Report	0 days	Thu 7/11/02	Thu 7/11/02																																																
	Regulatory Review	32 days	Fri 7/12/02	Mon 8/12/02																																																
	Submit Quarterly O&M Status Report	0 days	Fri 11/22/02	Fri 11/22/02																																																
	Regulatory Review	29 days	Mon 11/25/02	Mon 12/23/02																																																
	Prepare Draft Work Plan	41 days	Wed 5/15/02	Mon 6/24/02																																																
	Submit Draft Work Plan	0 days	Mon 6/24/02	Mon 6/24/02																																																
	Prepare Final Work Plan	7 days	Thu 6/27/02	Wed 7/3/02																																																
	Submit Final Work Plan	0 days	Wed 7/3/02	Wed 7/3/02																																																
	Regulatory Review	45 days	Mon 7/8/02	Wed 8/21/02																																																
	Additional Soil Investigation	97 days	Thu 8/8/02	Tue 11/12/02																																																
	Prepare Draft SAR Addendum	100 days	Mon 2/10/03	Tue 5/20/03																																																
Submit Draft SAR Addendum	0 days	Tue 5/20/03	Tue 5/20/03																																																	
Regulatory Review	99 days	Wed 5/21/03	Wed 8/27/03																																																	
Prepare Final SAR Addendum	43 days	Mon 9/29/03	Mon 11/10/03																																																	
Submit Final SAR Addendum	0 days	Mon 11/10/03	Mon 11/10/03																																																	
Regulatory Review	81 days	Tue 11/11/03	Fri 1/30/04																																																	
Removal Action	83 days	Wed 9/10/03	Mon 12/1/03																																																	
Prepare Source Removal Report	88 days	Tue 12/2/03	Fri 2/27/04																																																	
Submit Source Removal Report	0 days	Fri 2/27/04	Fri 2/27/04																																																	
Submit Quarterly O&M Status Report	0 days	Mon 8/25/03	Mon 8/25/03																																																	
Regulatory Review	93 days	Tue 8/26/03	Wed 11/26/03																																																	
Submit Quarterly O&M Status Report	0 days	Thu 10/30/03	Thu 10/30/03																																																	
Regulatory Review	92 days	Fri 10/31/03	Fri 1/30/04																																																	
25	Tank 80 (Building 80)	1825 days	Mon 9/25/00	Fri 9/23/05																																																
	Regulatory Review	46 days	Fri 9/21/01	Mon 11/5/01																																																
	Groundwater Sampling - 1st SA Year 2	1 day	Fri 12/14/01	Fri 12/14/01																																																
	Prepare draft GWMR - 1st SA Year 2	22 days	Tue 2/12/02	Tue 3/5/02																																																
	Submit draft GWMR - 1st SA Year 2	0 days	Tue 3/5/02	Tue 3/5/02																																																
	Prepare final GWMR - 1st SA Year 2	8 days	Tue 3/26/02	Tue 4/2/02																																																
	Submit final GWMR - 1st SA Year 2	0 days	Tue 4/2/02	Tue 4/2/02																																																
	Regulatory Review	86 days	Wed 4/3/02	Thu 6/27/02																																																
	Groundwater Sampling - 2nd SA Year 2	1 day	Tue 6/18/02	Tue 6/18/02																																																
	Prepare draft GWMR - 2nd SA Year 2	97 days	Fri 6/21/02	Wed 9/25/02																																																
	Submit draft GWMR - 2nd SA Year 2	0 days	Wed 9/25/02	Wed 9/25/02																																																
	Prepare final GWMR - 2nd SA Year 2	9 days	Tue 10/15/02	Wed 10/23/02																																																
	Submit final GWMR - 2nd SA Year 2	0 days	Wed 10/23/02	Wed 10/23/02																																																
	Regulatory Review	82 days	Thu 10/24/02	Mon 1/13/03																																																
	Groundwater Sampling - 1st SA Year 3	1 day	Thu 1/9/03	Thu 1/9/03																																																
	Prepare draft GWMR - 1st SA Year 3	115 days	Tue 2/11/03	Thu 6/5/03																																																
	Submit draft GWMR - 1st SA Year 3	0 days	Thu 6/5/03	Thu 6/5/03																																																
Prepare final GWMR - 1st SA Year 3	6 days	Fri 6/6/03	Wed 6/11/03																																																	

Project : Pet-0101
Date: Fri 11/14/03

Draft Document ▼
 Final Document ▲
 Remedial Action ◆
 Task 
 External Milestone ◇
 Deadline ⬇

PETROLEUM PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
	Prepare Construction Completion Report	329 days	Fri 1/19/01	Thu 12/13/01	[Task bar from 1/19/01 to 12/13/01]																																															
	Submit Construction Completion Report	0 days	Thu 12/13/01	Thu 12/13/01	[Deadline arrow at 12/13/01]																																															
	Submit Construction Completion Report (Rev 1)	0 days	Tue 3/5/02	Tue 3/5/02	[Deadline arrow at 3/5/02]																																															
	Regulatory Review (2nd O&M Report)	57 days	Tue 9/11/01	Tue 11/6/01	[Task bar from 9/11/01 to 11/6/01]																																															
	Submit Quarterly O&M Status Report	0 days	Thu 12/20/01	Thu 12/20/01	[Deadline arrow at 12/20/01]																																															
	Regulatory Review	15 days	Fri 12/21/01	Fri 1/4/02	[Task bar from 12/21/01 to 1/4/02]																																															
	Submit Annual O&M Status Report	0 days	Thu 2/28/02	Thu 2/28/02	[Deadline arrow at 2/28/02]																																															
	Regulatory Review	15 days	Fri 3/1/02	Fri 3/15/02	[Task bar from 3/1/02 to 3/15/02]																																															
	Submit Quarterly O&M Status Report	0 days	Mon 7/22/02	Mon 7/22/02	[Deadline arrow at 7/22/02]																																															
	Regulatory Review	101 days	Tue 7/23/02	Thu 10/31/02	[Task bar from 7/23/02 to 10/31/02]																																															
	Prepare draft Supplemental Assess Workplan	55 days	Wed 5/1/02	Mon 6/24/02	[Task bar from 5/1/02 to 6/24/02]																																															
	Submit draft Supplemental Assess Workplan	0 days	Mon 6/24/02	Mon 6/24/02	[Deadline arrow at 6/24/02]																																															
	Prepare final Supplemental Assess Workplan	7 days	Thu 6/27/02	Wed 7/3/02	[Task bar from 6/27/02 to 7/3/02]																																															
	Submit final Supplemental Assess Workplan	0 days	Wed 7/3/02	Wed 7/3/02	[Deadline arrow at 7/3/02]																																															
	Conduct Supplemental Site Assessment	177 days	Mon 7/15/02	Tue 1/7/03	[Task bar from 7/15/02 to 1/7/03]																																															
	Submit Quarterly O&M Status Report	0 days	Tue 1/21/03	Tue 1/21/03	[Deadline arrow at 1/21/03]																																															
	Regulatory Review	114 days	Wed 1/22/03	Thu 5/15/03	[Task bar from 1/22/03 to 5/15/03]																																															
	Submit Quarterly O&M Status Report	0 days	Mon 7/14/03	Mon 7/14/03	[Deadline arrow at 7/14/03]																																															
	Regulatory Review	16 days	Tue 7/15/03	Wed 7/30/03	[Task bar from 7/15/03 to 7/30/03]																																															
	Prepare Draft Supplemental Letter Report	58 days	Mon 2/24/03	Tue 4/22/03	[Task bar from 2/24/03 to 4/22/03]																																															
	Submit Draft Supplemental Letter Report	0 days	Tue 4/22/03	Tue 4/22/03	[Deadline arrow at 4/22/03]																																															
	Prepare Final Supplemental Letter Report	36 days	Wed 4/23/03	Wed 5/28/03	[Task bar from 4/23/03 to 5/28/03]																																															
	Submit Final Supplemental Letter Report	0 days	Wed 5/28/03	Wed 5/28/03	[Deadline arrow at 5/28/03]																																															
	Regulatory Review	63 days	Thu 5/29/03	Wed 7/30/03	[Task bar from 5/29/03 to 7/30/03]																																															
	Submit Annual O&M Status Report	0 days	Tue 9/30/03	Tue 9/30/03	[Deadline arrow at 9/30/03]																																															
	Regulatory Review	30 days	Wed 10/1/03	Thu 10/30/03	[Task bar from 10/1/03 to 10/30/03]																																															
	Submit Quarterly O&M Status Report	0 days	Wed 11/26/03	Wed 11/26/03	[Deadline arrow at 11/26/03]																																															
	Regulatory Review	45 days	Mon 12/1/03	Wed 1/14/04	[Task bar from 12/1/03 to 1/14/04]																																															
	Submit Quarterly O&M Status Report	0 days	Fri 2/27/04	Fri 2/27/04	[Deadline arrow at 2/27/04]																																															
	Regulatory Review	46 days	Mon 3/1/04	Thu 4/15/04	[Task bar from 3/1/04 to 4/15/04]																																															
	Submit Quarterly O&M Status Report	0 days	Fri 5/28/04	Fri 5/28/04	[Deadline arrow at 5/28/04]																																															
	Regulatory Review	45 days	Mon 5/31/04	Wed 7/14/04	[Task bar from 5/31/04 to 7/14/04]																																															
	Submit Annual O&M Status Report	0 days	Fri 8/27/04	Fri 8/27/04	[Deadline arrow at 8/27/04]																																															
	Regulatory Review	45 days	Mon 8/30/04	Wed 10/13/04	[Task bar from 8/30/04 to 10/13/04]																																															
	Submit Quarterly O&M Status Report	0 days	Wed 11/24/04	Wed 11/24/04	[Deadline arrow at 11/24/04]																																															
	Regulatory Review	45 days	Mon 11/29/04	Wed 1/12/05	[Task bar from 11/29/04 to 1/12/05]																																															
	Submit Quarterly O&M Status Report	0 days	Fri 2/25/05	Fri 2/25/05	[Deadline arrow at 2/25/05]																																															
	Regulatory Review	45 days	Mon 2/28/05	Wed 4/13/05	[Task bar from 2/28/05 to 4/13/05]																																															
171	Tank 367	861 days	Sat 10/30/99	Fri 3/8/02	[Task bar from 10/30/99 to 3/8/02]																																															
	Regulatory Review	267 days	Fri 6/15/01	Fri 3/8/02	[Task bar from 6/15/01 to 3/8/02]																																															
172	Tank 199	3146 days	Mon 9/2/96	Wed 4/13/05	[Task bar from 9/2/96 to 4/13/05]																																															
	Groundwater Sampling - Annual Year 3	1 day	Tue 1/8/02	Tue 1/8/02	[Task bar at 1/8/02]																																															
	Prepare draft GWMR - Annual Year 3	25 days	Fri 1/18/02	Mon 2/11/02	[Task bar from 1/18/02 to 2/11/02]																																															
	Submit draft GWMR - Annual Year 3	0 days	Mon 2/11/02	Mon 2/11/02	[Deadline arrow at 2/11/02]																																															
	Prepare final GWMR - Annual Year 3	4 days	Tue 2/19/02	Fri 2/22/02	[Task bar from 2/19/02 to 2/22/02]																																															
	Submit final GWMR - Annual Year 3	0 days	Fri 2/22/02	Fri 2/22/02	[Deadline arrow at 2/22/02]																																															
	Regulatory Review	40 days	Mon 2/25/02	Fri 4/5/02	[Task bar from 2/25/02 to 4/5/02]																																															
	Groundwater Sampling - Annual Year 4	1 day	Tue 2/18/03	Tue 2/18/03	[Task bar at 2/18/03]																																															
	Prepare draft GWMR - Annual Year 4	22 days	Tue 3/11/03	Tue 4/1/03	[Task bar from 3/11/03 to 4/1/03]																																															
	Submit draft GWMR - Annual Year 4	0 days	Tue 4/1/03	Tue 4/1/03	[Deadline arrow at 4/1/03]																																															
	Prepare final GWMR - Annual Year 4	6 days	Fri 4/11/03	Wed 4/16/03	[Task bar from 4/11/03 to 4/16/03]																																															
	Submit final GWMR - Annual Year 4	0 days	Wed 4/16/03	Wed 4/16/03	[Deadline arrow at 4/16/03]																																															
	Regulatory Review	22 days	Thu 4/17/03	Thu 5/8/03	[Task bar from 4/17/03 to 5/8/03]																																															

Project : Pet-0101
Date: Fri 11/14/03

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 Final Document ▲
 Remedial Action ◆
 Task [Grey Bar]
 External Milestone ◇
 Deadline ↕

APPENDIX C

**BASE REALIGNMENT AND CLOSURE PROGRAM
SCHEDULE**

BRAC PROGRAM SCHEDULE - NAS CECIL FIELD - OCTOBER 2003

SWMU	Facility	Task Name	Duration	Start	Finish	2002												2003												2004												2005											
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
NA		ABANDONED RAILROAD BEDS - SOUTH OF NORMANDY BLVD	677 days	Mon 9/23/02	Fri 7/30/04																																																
		Prepare Draft Sampling and Analysis Report	37 days	Mon 9/23/02	Tue 10/29/02																																																
		Submit Draft Sampling and Analysis Report	0 days	Tue 10/29/02	Tue 10/29/02																																																
		Regulatory Review & Comment Resolution	610 days	Wed 10/30/02	Wed 6/30/04																																																
		Prepare Final Sampling and Analysis Report	30 days	Thu 7/1/04	Fri 7/30/04																																																
		Submit Final Sampling and Analysis Report	0 days	Fri 7/30/04	Fri 7/30/04																																																
NA		ABANDONED RAILROAD BEDS - NORTH OF NORMANDY BLVD	107 days	Thu 7/1/04	Fri 10/15/04																																																
		Prepare Draft Sampling and Analysis Report	30 days	Thu 7/1/04	Fri 7/30/04																																																
		Submit Draft Sampling and Analysis Report	0 days	Fri 7/30/04	Fri 7/30/04																																																
		Regulatory Review & Comment Resolution	45 days	Mon 8/2/04	Wed 9/15/04																																																
		Prepare Final Sampling and Analysis Report	30 days	Thu 9/16/04	Fri 10/15/04																																																
		Submit Final Sampling and Analysis Report	0 days	Fri 10/15/04	Fri 10/15/04																																																
50	98	BUILDING 98 [FORMER RAILROAD BED SITE]	237 days	Fri 7/13/01	Wed 3/6/02																																																
		Submit Source Removal Report	0 days	Thu 10/18/01	Thu 10/18/01																																																
		Prepare Draft Sampling and Analysis Report	76 days	Fri 10/19/01	Wed 1/2/02																																																
		Submit Draft Sampling and Analysis Report	0 days	Wed 1/2/02	Wed 1/2/02																																																
		Regulatory Comments	48 days	Thu 1/3/02	Tue 2/19/02																																																
		Prepare Final Sampling and Analysis Report	15 days	Wed 2/20/02	Wed 3/6/02																																																
		Submit Final Sampling and Analysis Report	0 days	Wed 3/6/02	Wed 3/6/02																																																
	285	TANK 285 - NORTH FUEL FARM AREA	103 days	Mon 9/29/03	Fri 1/9/04																																																
		Prepare Draft Sampling and Analysis Report	32 days	Mon 9/29/03	Thu 10/30/03																																																
		Submit Draft Sampling and Analysis Report	1 day	Thu 10/30/03	Thu 10/30/03																																																
		Regulatory Comments	46 days	Fri 10/31/03	Mon 12/15/03																																																
		Prepare Final Sampling and Analysis Report	25 days	Tue 12/16/03	Fri 1/9/04																																																
		Submit Final Sampling and Analysis Report	0 days	Fri 1/9/04	Fri 1/9/04																																																
189	535	LOAD/UNLOAD RAMP [FORMER RAILROAD BED SITE]	2265 days	Fri 3/1/96	Mon 5/13/02																																																
		Submit Source Removal Report	0 days	Sat 12/15/01	Sat 12/15/01																																																
		Prepare Draft Sampling and Analysis Report	100 days	Wed 12/19/01	Thu 3/28/02																																																
		Submit Draft Sampling and Analysis Report	0 days	Thu 3/28/02	Thu 3/28/02																																																
		Regulatory Comments	13 days	Fri 3/29/02	Wed 4/10/02																																																
		Prepare Final Sampling and Analysis Report	33 days	Thu 4/11/02	Mon 5/13/02																																																
		Submit Final Sampling and Analysis Report	0 days	Mon 5/13/02	Mon 5/13/02																																																
153	605	BUILDING 605	316 days	Wed 1/23/02	Wed 12/4/02																																																
		Submit Groundwater Monitoring Work Plan	0 days	Wed 1/23/02	Wed 1/23/02																																																
		Groundwater Sampling - 1st SA Year 1	0 days	Mon 2/11/02	Mon 2/11/02																																																
		Prepare GWM Presentation - 1st SA Year 1	9 days	Mon 3/11/02	Tue 3/19/02																																																
		Submit GWM Presentation - 1st SA Year 1	0 days	Tue 3/19/02	Tue 3/19/02																																																
		Groundwater Sampling - 2nd SA Year 1	0 days	Wed 7/17/02	Wed 7/17/02																																																
		Prepare GWM Presentation - 2nd SA Year 1	14 days	Thu 8/15/02	Wed 8/28/02																																																
		Submit GWM Presentation - 2nd SA Year 1	0 days	Wed 8/28/02	Wed 8/28/02																																																
		Groundwater Sampling - Close Out	0 days	Wed 9/4/02	Wed 9/4/02																																																
		Prepare Draft Sampling & Analysis Report	49 days	Wed 9/11/02	Tue 10/29/02																																																
		Submit Draft Sampling & Analysis Report	0 days	Tue 10/29/02	Tue 10/29/02																																																
		Regulatory Review	28 days	Wed 10/30/02	Tue 11/26/02																																																
		Prepare Final Sampling & Analysis Report	8 days	Wed 11/27/02	Wed 12/4/02																																																
		Submit Final Sampling & Analysis Report	0 days	Wed 12/4/02	Wed 12/4/02																																																
20	610	HAZARDOUS WASTE STORAGE FACILITY	1506 days	Fri 1/9/98	Fri 2/22/02																																																
		Prepare Draft Sampling and Analysis Report	78 days	Fri 9/28/01	Fri 12/14/01																																																
		Submit Draft Sampling and Analysis Report	0 days	Fri 12/14/01	Fri 12/14/01																																																
		Regulatory Comments	24 days	Mon 12/17/01	Wed 1/9/02																																																
		Prepare Final Sampling and Analysis Report	44 days	Thu 1/10/02	Fri 2/22/02																																																
		Submit Final Sampling and Analysis Report	0 days	Fri 2/22/02	Fri 2/22/02																																																
154	635	RAILROAD LOADING DOCK [FORMER RAILROAD BED SITE]	1293 days	Fri 6/2/00	Tue 12/16/03																																																

Project: BRAC-0101
Date: Thu 11/13/03

Summary Task Progress Milestone External Milestone Deadline

