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Site Management Plan

for

Naval Submarine Base New London

Groton, Connecticut

Engineering Field Activity Northeast
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order 0841

December 2004

TETRA TECH NUS, INC.

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SITE MANAGEMENT PLAN
FOR
NAVAL SUBMARINE BASE - NEW LONDON
GROTON, CONNECTICUT

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Engineering Field Activity Northeast
Environmental Branch (Code EV2)
Naval Facilities Engineering Command
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ACRONYMS LIST

µg/kg	microgram per kilogram
µg/L	microgram per liter
AOC	Area of Concern
ARAR	Applicable or Relevant and Appropriate Requirement
AS	Air Sparging
Atlantic	Atlantic Environmental Services, Inc.
AVS	Acid Volatile Sulfide
AWQC	Ambient Water Quality Criteria
B&RE	Brown & Root Environmental
BGOURI	Basewide Groundwater Operable Unit Remedial Investigation
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CBU	Construction Battalion Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHF	Contaminant Hazard Factor
CLEAN	Comprehensive Long-Term Environmental Action Navy
cm	centimeter
COC	Chemical of Concern
CTDEP	Connecticut Department of Environmental Protection
CTO	Contract Task Order
DDD	1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane
DDE	1,1-Dichloro-2,2-bis(4-chlorophenyl)ethene
DDT	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane
DDTR	Total DDT isomers
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DGI	Data Gap Investigation
DO	Dissolved oxygen
DOD	Department of Defense
DRMO	Defense Reutilization and Marketing Office
EE/CA	Engineering Evaluation/Cost Analysis
EFANE	Engineering Field Activity Northeast
Envirodyne	Envirodyne Engineers, Inc.
EPA	United States Environmental Protection Agency
ERA	Ecological Risk Assessment
ESQD	Explosive Safety Quantity Distance

FFA	Federal Facility Agreement
FFS	Focused Feasibility Study
FS	Feasibility Study
FWEC	Foster Wheeler Environmental Corporation
GA/GAA/GB	CTDEP Groundwater Quality Classifications
GM	Groundwater Monitoring
GZA	Goldberg-Zoino & Associates
HHRA	Human health risk assessment
HI	Hazard Index
HNUS	Halliburton NUS
HQ	Hazard Quotient
HSWA	Hazardous and Solid Waste Amendment
IAG	Interagency Agreement
IAS	Initial Assessment Study
ICR	Incremental Cancer Risk
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
MCL	Maximum Concentration Limit
mg/kg	milligram per kilogram
mg/L	milligram per liter
MPF	Migration Pathway Factor
MWR	Morale, Welfare, and Recreation
NACIP	Naval Assessment and Control of Installation Pollutants
NAVD	North American Vertical Datum
Navy	United States Department of the Navy
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NEESA	Naval Energy and Environmental Support Activity
NESO	Naval Environmental Support Office
NEX	Naval Exchange
NFA	No Further Action
NFESC	Naval Facilities Engineering Service Center
NPL	National Priorities List
NSA	New Source Area
NSB-NLON	Naval Submarine Base - New London
NTCRA	Non-Time-Critical Removal Action
O&M	Operations & Maintenance

OBDA	Overbank Disposal Area
OBDANE	Over Bank Disposal Area Northeast
OHM	OHM Remediation Services Corp.
OSWER	Office of Solid Waste and Emergency Response
OU	Operable Unit
OVA	Organic vapor analyzer
PA	Preliminary Assessment
PAH	Polynuclear aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
QA	Quality Assurance
QC	Quality Control
RA	Remedial Action
RAB	Restoration Advisory Board
RAO	Remedial Action Objective
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial design
RF	Receptor Factor
RfD	Reference dose
RG	Remedial goal
RI	Remedial Investigation
RIP	Remedies in Place
RME	Reasonable maximum exposure
ROD	Record of Decision
RSR	Remediation Standard Regulations (Connecticut)
SARA	Superfund Amendments and Reauthorization Act
SASDA	Spend Acid Storage and Disposal Area
SEM	Simultaneously Extracted Metals
SI	Site Inspection
SIAS	Supplement to the Initial Assessment Study
SMP	Site Management Plan
SSA	Site Screening Area
SSP	Site Screening Process
SVE	Soil Vapor Extraction
SVOC	Semivolatile organic compound
TAL	Target Analyte List

TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TCRA	Time-Critical Removal Action
TIE	Toxicity Identification Evaluation
TPH	Total petroleum hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
TW	Temporary well
UST	Underground storage tank
VOC	Volatile organic compound
Wehran	Wehran Engineering Corporation

1.0 INTRODUCTION

This Site Management Plan (SMP) for the Naval Submarine Base - New London (NSB-NLON), Groton, Connecticut was prepared for the United States Department of the Navy (Navy) by Tetra Tech NUS, Inc. (TtNUS) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract, Contract Number N62467-94-D-0888, Contract Task Order (CTO) 0841. The SMP serves as a management tool for planning, reviewing, and setting priorities for environmental investigative and remedial response activities to be conducted at NSB-NLON within the Navy's Installation Restoration (IR) Program. Ultimately, the SMP serves as the schedule for implementation of the IR Program at NSB-NLON. The SMP is updated regularly to revise priorities and schedules of activities as additional information (including funding availability) becomes available.

This version of the SMP presents the rationale for the sequence of future investigation and remediation activities and the estimated schedule for completion of these activities, with detailed schedules presented through Fiscal Year 2009. The use of an SMP allows for adjustment of scheduled activities for reasons such as federal budgetary constraints, changes in scope of investigation/remediation activities, or other unanticipated events. A Federal Facility Agreement (FFA) has been developed for NSB-NLON [United States Environmental Protection Agency (EPA), 1995]. The FFA establishes the roles and responsibilities of the Navy, EPA, and State of Connecticut Department of Environmental Protection (CTDEP) and serves as an Interagency Agreement (IAG) for the completion of all necessary investigation and remedial actions at NSB-NLON.

1.1 NSB-NLON BACKGROUND

As detailed in the FFA, NSB-NLON includes approximately 687 acres of real property located on the eastern bank of the Thames River in the Towns of Groton and Ledyard, Connecticut approximately 6 miles north of Long Island Sound as depicted on Figure 8-1. In addition, NSB-NLON includes the Nautilus Memorial and Navy family housing plans commonly known as Polaris Park, Nautilus Park, Trident Park, Conning Towers, and Dolphin Gardens. These housing plans cover approximately 534 additional acres in said towns.

1.1.1 Base Description

NSB-NLON is bounded on the east by Connecticut Route 12, on the south by Crystal Lake Road, and on the west by the Thames River. The northern border is a low ridge that trends approximately east-southeast from the Thames River to Baldwin Hill.

NSB-NLON currently provides a base command for submarine activities in the Atlantic Ocean. It also provides housing for Navy personnel and their families, support submarine training facilities, military offices, medical facilities, and facilities for submarine maintenance, repair, and overhaul.

Currently, NSB-NLON consists of over 300 buildings on 687 acres of land. The density of buildings is high a long the central bedrock high, in the southern valley, and along the Thames River. In the northern valley are streams, a wetland, and a golf course. The northern bedrock high is not heavily developed except along the southern face at the Area A Weapons Center and Torpedo Shops. The areas on top of northern ridges are wooded and undeveloped.

Land use adjacent to the base is residential and commercial. Residential development along Military Highway, Sleepy Hollow, Long Cove Road, and Pinelock Drive borders the site to the north and extends northward into the Gales Ferry section of Ledyard. Property along Route 12 east of the base consists of widely spaced private homes and open, wooded land. Development is mixed commercial and residential farther south on Route 12. This area includes a church, automobile sales and repair facilities, convenience stores, restaurants, and a gas station. Private residences, an automobile service station, and a former dry cleaner are located along the southern side of Crystal Lake Road. Housing for Navy personnel exists farther south of Crystal Lake Road.

1.1.2 Base History

In 1867, the State of Connecticut donated a 112-acre parcel of land on the eastern bank of the Thames River to the Navy. The Navy did not use the property until 1868 when it officially designated the property a Navy Yard. The site was then used to moor small craft and obsolete warships, and served as a coaling station for the Atlantic fleet. The Department of the Navy designated the site a Submarine Base in 1916. During World War I, facilities at the base were expanded extensively; 6 piers and 81 buildings were added. In 1917, a submarine school was established, and in 1918 the Submarine Medical Center was founded.

NSB-NLON underwent another period of growth during World War II. Between 1935 and 1945, the Navy built in excess of 180 buildings and acquired adjacent land to expand NSB-NLON from 112 to 497 acres. The growth of NSB-NLON continued after World War II. A Medical Research Laboratory was established at the base in 1946.

In 1968, the status of the Submarine School was changed from an activity to a command and became the largest tenant on the base. The Naval Submarine Support Facility was established in 1974, and the Naval Undersea Medical Institute was established the following year.

1.1.3 Environmental History

The Navy initiated the Naval Assessment and Control of Installation Pollutants (NACIP) Program on September 11, 1980 to identify and control environmental contaminants from past use and disposal of hazardous substances. Subsequently, the Initial Assessment Study (IAS), [Envirodyne Engineers, Inc. (Envirodyne), 1983], completed in March 1983, identified several potential disposal areas. The results of the IAS lead to the inclusion of NSB-NLON on the Federal Agency Hazardous Waste Compliance Docket on February 12, 1988, the formation of a Technical Review Committee, EPA's proposal for inclusion of NSB-NLON on the National Priorities List (NPL) on October 25, 1989, and finally, the placement of NSB-NLON on the NPL on August 30, 1990.

Previous investigations and enforcement histories for NSB-NLON are summarized as follows:

- Final IAS (Envirodyne, 1983). The purpose of the IAS was to identify and evaluate past waste disposal practices at NSB-NLON and to assess the potential for environmental impacts.

- IR Program, 1986. In response to the growing awareness of the potential effects of hazardous materials on human health and the environment, the United States Department of Defense (DOD) developed the IR Program to investigate and clean up potential problem areas created by past events at federal facilities. The IRP was the catalyst for environmental investigations at the NSB-NLON.

- Verification Study, [Wehran Engineering, Inc. (Wehran), 1988]. The purpose of the Verification Study was to determine whether toxic and hazardous materials identified in the IAS were present on site and to recommend whether additional study was warranted.

- Placement of NSB-NLON on the NPL by the EPA, 1990.

- Phase I Remedial Investigation (RI) NSB-NLON [Atlantic Environmental Services, Inc. (Atlantic), 1992]. In May 1990, Atlantic initiated an IR study of NSB-NLON for the Navy. The scope of work for this IR study included a Phase I Remedial Investigation (RI) of the following 11 sites located at NSB-NLON:

  Site 1 - Construction Battalion Unit (CBU) Drum Storage Area
  Site 2 - Area A (Area Landfill, Area A Wetland, and Area A Downstream Watercourses)
  Site 3 - Over Bank Disposal Area (OBDA)
  Site 4 - Rubble Fill at Bunker A-86
  Site 6 - Defense Reutilization and Marketing Office (DRMO)
  Site 7 - Torpedo Shops

Site 8 - Goss Cove Landfill
Site 13 - Lower Subase
Site 14 - Over Bank Disposal Area Northeast (OBDANE)
Site 15 - Spent Acid Storage and Disposal Area (SASDA)
Site 18 - Former Gasoline Station

The sites were initially identified and assigned site numbers in the IAS (Envirodyne, 1983).

Elements of this RI report included a review of the physical characteristics of each study area, a characterization of the nature and extent of contamination within each study area, a characterization of contaminant fate and transport within each study area, and human health and ecological risk assessments of contaminants contained within each of the 11 sites.

- Supplement to IAS (SIAS) (Draft Final) [Naval Facilities Engineering Service Center (NFESC), 1995]. The IAS, prepared for the Naval Energy and Environmental Support Activity (NEESA) by Envirodyne, investigated potential hazardous substance release sites at NSB-NLON (Envirodyne, 1983). An SIAS was prepared in April 1995 by the NFESC following completion of the Phase I and Phase II RIs and a Verification Study (NFESC, 1995). The purpose of the SIAS was to update the IAS for the period between 1983 and 1995. The scope of the SIAS included identification of all hazardous waste storage areas and all releases of hazardous substances within NSB-NLON.

  The field team for the SIAS used on-base record searches, site visits, and employee interviews to develop information for the report. The following sites were included in the evaluation:

  DRMO, Building 355
  Building 450, OTTO Fuel Wastewater Tank
  Building 450, Drum Storage Area
  Pesticide Use: Golf Course
  Pesticide Use: Public Works
  Transformer at Building 157, Vault 31
  Paint Residue from Repainting Potable Water Tank 99
  Paint Residue from Repainting Potable Water Tank 326
  Paint Residue from Repainting Potable Water Tank 444
  Paint Residue from Repainting Potable Water Tank 452
  Paint Residue from Repainting Potable Water Tank 480
  DRMO Scrap Metal Storage Area
  Hazardous Waste Accumulation Areas

- FFA for NSB-NLON (EPA, 1995). The Navy entered into an FFA with EPA and the CTDEP regarding the cleanup of environmental contamination at NSB-NLON. The document was signed by all three parties and became effective on January 11, 1995. The FFA established the roles and responsibilities of each agency, set deadlines for the investigation and cleanup of hazardous waste sites, and established a mechanism for the resolution of disputes among the agencies.

- Phase II Remedial Investigation [B&R Environmental (B&RE), 1997b]. A Phase II RI of 13 sites at NSB-NLON was completed by B&RE for the Navy. The sites included in the RI were 10 of the 11 sites investigated during the Phase I RI, the Thames River, and the Area A Weapons Center (Site 20). Site 18, the Former Gasoline Station, was not investigated in the Phase II RI, but it was generally discussed for informational purposes. According to the Navy, the designation for Site 18 was changed to refer to the Solvent Storage Area (Building 33), as presented in the Phase II RI Report (B&RE, 1997b), and not to the Former Gasoline Station, as presented in the Phase I RI Report (Atlantic, 1992).

  The Phase II RI was conducted to further develop the elements of the Phase I RI, including the physical characteristics, nature and extent of contamination, contaminant fate and transport, and risk assessments (human health and ecological) for each of the sites. Remedial action objectives were identified for each of the sites in the Phase II RI Report. These objectives were used to support No Further Action (NFA), further characterization, or Feasibility Study (FS) recommendations for sites.

- Lower Subase RI (TtNUS, 1999c). The Lower Subase RI was completed by TtNUS for the Navy on seven distinct zones of the Lower Subase at NSB-NLON. Each zone included various IR Program sites. The zones and sites included in the investigation are as follows:

  - Zone 1: Site 10 - Fuel Storage Tanks and Tank 54-H; Site 11 - Power Plant Oil Tanks; Building 89 UST; and the Fuel Pipeline and Steam and Condensate Lines

  - Zone 2: Fuel Pipeline and Steam and Condensate Lines

  - Zone 3: Site 17 - Hazardous Materials/Solvent Storage Area (Building 31) and the Fuel Pipeline and Steam and Condensate Lines

  - Zone 4: Site 13 - Building 79 Waste Oil Pit; Site 19 - Solvent Storage Area (Building 316); the Quay Wall Study Area; and the Fuel Pipeline and Steam and Condensate Lines

- Zone 5: Site 22 - Pier 33, Building 175 (Battery Acid Aboveground Storage Tanks), and adjacent property

- Zone 6: Site 24 - Central Paint Accumulation Area (Building 174)

- Zone 7: Site 21 - Berth 16; Site 25 - Classified Materials Incinerator; Transformers at Building 157, Vault 31.

The objectives of the investigation, performed in October and November 1997, were to characterize the subsurface conditions at the Lower Subase, to further characterize the quality of the sediment in the Thames River adjacent to the Lower Subase, and to provide data pertinent to identifying site-specific remedial alternatives.

The data collected during this RI, in conjunction with data collected from previous investigations, were used to identify sources of soil and groundwater contamination, define major contaminant migration pathways, define the nature and extent of contamination within the groundwater and soils at seven zones of investigation within the Lower Subase, define the nature and extent of contamination in the sediments of the adjacent Thames River, provide supplemental data to develop a revised human health risk assessment, provide supplemental data to develop a revised ecological risk assessment for the Thames River, and provide sufficient information to identify proper recommendations for future action at each zone under the IR Program.

- Basewide Groundwater Operable Unit RI (BGOURI) (TtNUS, 2002a). The BGOURI was conducted by TtNUS for the Navy. Ten IR Program sites (i.e., Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23) were included in the BGOURI, and the fieldwork for the BGOURI was conducted from June to August 2000. The objectives of the investigation were to further characterize the nature and extent of contamination and hydrogeologic conditions within the groundwater aquifers at each site, further characterize the nature and extent of contamination within the soil at Site 7, perform preliminary investigations at two sites (i.e., Sites 16 and 18), determine background groundwater conditions, determine human health risks associated with each site, identify and evaluate the factors affecting organic and inorganic contaminant migration, and provide data pertinent to identifying potential site-specific remedial alternatives (e.g., natural attenuation).

  The following recommendations were made in the BGOURI Report:

- NFA is required for Sites 7 (soil), 16, and 18.
- An FS should be completed for the groundwater at Sites 3, 7, 14, 15, and 20.
- The existing groundwater monitoring programs for Sites 2, 8, and 23 should continue until sufficient data are collected to characterize the sites.

- BGOURI Update / FS (TtNUS 2004). A data gap investigation (DGI) was conducted by TtNUS for the Navy in October 2002 at Sites 3, 15, and 20 prior to proceeding with FSs for these and other sites. One objective of the DGI was to collect additional data to address unresolved nature and extent of contamination issues identified in the BGOURI. Another objective was to characterize Site 3 - New Source Area (NSA), a new site identified during the remediation of contaminated sediment in Stream 5 of the Area A Downstream Watercourses.

  The results of the DGI, reported in the BGOURI Update/FS Report (TtNUS, 2004), indicated that there was no need to modify the existing RODs that are in place for the soil at Sites 15 and 20. In addition, the report recommended NFA for the groundwater at Sites 14, 15, and 20, preparation of FSs for the soil at Site 3 - NSA and Site 7, and preparation of an FS for the groundwater associated with Sites 3 and 7.

In addition to these investigation documents, numerous other documents have been generated for the IR Program. Because of the large number of documents, they are not discussed in detail in this section. The appropriate references to these additional documents are provided in Sections 2.0 and 7.0.

1.2 SMP SITES

Although various site designation numbers have been used in the past, an updated site designation list has been established for NSB-NLON. These designations were originally defined during the Phase II RI and have been used during subsequent activities including this SMP. The site number does not imply that the site is an Area of Concern (AOC). The following sites are addressed in this SMP:

Site 1 - CBU Drum Storage Area
Site 2 - Area A Landfill and Area A Wetland
Site 3 - Area A Downstream Water Courses/OBDA Pond and OBDA
Site 4 - Rubble Fill Area at Bunker A-86
Site 6 - DRMO
Site 7 - Torpedo Shops
Site 8 - Goss Cove Landfill
Site 9 - Oily Wastewater Tank (OT-5)
Site 10 - Lower Subase - Fuel Storage Tanks and Tank 54-H

Site 11 - Lower Subase - Power Plant Oil Tanks
Site 13 - Lower Subase - Building 79 Waste Oil Pit
Site 14 - OBDANE
Site 15 - SASDA
Site 16 - Hospital Incinerators
Site 17 - Lower Subase - Hazardous Materials/Solvent Storage Area (Building 31)
Site 18 - Solvent Storage Area (Building 33)
Site 19 - Lower Subase - Solvent Storage Area (Building 316)
Site 20 - Area A Weapons Center
Site 21 - Lower Subase - Berth 16
Site 22 - Lower Subase - Pier 33
Site 23 - Fuel Farm
Site 24 - Lower Subase - Central Paint Accumulation Area (Building 174)
Site 25 - Lower Subase - Classified Materials Incinerator

Site 5 (Hazardous Waste Storage Facility at Bunker A-85) is not addressed in this SMP because activities at the site were conducted under the Resource Conservation and Recovery Act (RCRA) Part A Permit for NSB-NLON. Site 12 (Building 428 Gas Tanks) is also not addressed in this SMP because it is not a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site and was evaluated under the CTDEP's RCRA Underground Storage Tank (UST) Program.

The soil and groundwater at Site 23 (Fuel Farm) are addressed in Section 2.0 of this SMP. However, the soil was investigated and remediated under CTDEP's RCRA UST Program and is not discussed in the subsequent sections of this SMP. The groundwater at Site 23 was investigated under CERCLA as part of the BGOURI and is therefore included in the remaining sections of this SMP. The groundwater at Site 9, which is located within Site 23, is being collectively investigated with the Site 23 groundwater.

Operable units (OUs) have also been defined for the media at the IR Program sites. The medium-specific OUs that have been defined are provided in Table 1-1.

Because of the investigations and remedial actions completed at NSB-NLON under the IR Program, the sites are in various phases of the Site Closeout process [e.g., NFA, Remedy in Place (RIP), or Response Complete (RC)]. Further explanation of the RIP and RC categories is provided in Section 4.1. The Site Closeout phase for each IR Program site is provided in Table 1-1.

1.3 REPORT ORGANIZATION

The SMP is organized as follows:

- Section 1.0 consists of this introduction.
- Section 2.0 describes the history and status of each site at NSB-NLON.
- Section 3.0 provides a description of the CERCLA remedial process.
- Section 4.0 provides a description of the ranking procedure and a summary of ranking results.
- Section 5.0 presents the sequence of activities and target dates for primary and secondary documents along with a discussion of their development.
- Section 6.0 provides the names and responsibilities of cleanup team members.
- Section 7.0 provides the most recent Administrative Record Index for NSB-NLON.
- Section 8.0 provides site maps and figures.

- References for in-text citations are provided in the reference section following Section 8.0.

The Appendices are as follows:

- Appendix A presents the Summary and Detailed Schedules.

- Appendix B presents the Administrative Record Index.

- Appendix C presents responses to EPA's comments on the draft 2004 SMP (to be provided in the final SMP).

- Appendix D presents responses to CTDEP's comments on the draft 2004 SMP (to be provided in the final SMP).

TABLE 1-1

SITE CLOSEOUT STATUS OF IR PROGRAM SITES
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Site/Zone	Medium	Operable Unit	Site Closeout Phase
Site 1 – CBU Drum Storage Area	Soil	OU1	RC, NFA
Site 2 – Area A Landfill and Wetland	Soil	OU1	RIP, LTM
	Groundwater	OU9	RI, GM
	Sediment	OU12	RI/FS
Site 3 – Area A Downstream Watercourses and OBDA	Soil and Sediment	OU3	RC
	NSA Soil	OU3	FS, ROD
	Groundwater	OU9	FS, ROD
Site 4 – Rubble Fill at Bunker A-86	Soil	OU10	RC, NFA
Site 6 – DRMO	Soil	OU2	RIP, LTM
	Groundwater	OU2	RIP, LTM
Site 7 – Torpedo Shops	Soil	OU8	RI/FS, ROD
	Groundwater	OU9	RI/FS, ROD
Site 8 – Goss Cove Landfill	Soil	OU5	RIP, LTM
	Sediment and Surface Water	OU5	RC, NFA
	Groundwater	OU5	RI, GM
Site 9 – Oily Wastewater Tank OT-5	Soil	TBD	RC
	Groundwater	OU9	RI, GM
Site 10/Zone 1 – Lower Subase – Fuel Storage Tanks and Tank 54-H	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 11/Zone 1 – Lower Subase – Power Plant Oil Tanks	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 13/Zone 4 – Lower Subase – Building 79 Waste Oil Pit	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 14 – OBDANE	Soil	OU8	NTCRA, ROD
	Groundwater	OU9	RI, ROD
Site 15 – SASDA	Soil	OU6	RC, NFA
	Groundwater	OU9	RI, ROD
Site 16 – Hospital Incinerators	Soil	OU11	RI, ROD
Site 17/Zone 3 – Lower Subase – Hazardous Materials/Solvent Storage Area (Building 31)	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS

TABLE 1-1

SITE CLOSEOUT STATUS OF IR PROGRAM SITES
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Site/Zone	Medium	Operable Unit	Site Closeout Phase
Site 18 – Solvent Storage Area (Building 33)	Soil	OU11	RI, ROD
	Groundwater	OU9	RI, ROD
Site 19/Zone 4 – Lower Subase – Solvent Storage Area (Building 316)	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 20 – Area A Weapons Center	Soil and Sediment	OU7	RC
	Groundwater	OU9	RI, ROD
Site 21/Zone 7 – Lower Subase – Berth 16	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 22/Zone 5 – Lower Subase – Pier 33	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 23 - Fuel Farm	Groundwater	OU9	RI, GM
Site 24/Zone 6 – Lower Subase – Central Paint Accumulation Area (Building 174)	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS
Site 25/Zone 7 – Classified Materials Incinerator	Soil	OU4	RI/FS
	Groundwater	OU4	RI/FS
	Thames River Sediment	OU4	RI/FS

FS – Feasibility Study
GM – Groundwater Monitoring
LTM – Long-Term Management
NFA – No Further Action
NTCRA – Non-Time-Critical Removal Action
OU – Operable Unit
RC – Response Complete
RI – Remedial Investigation
RIP – Remedy In Place
ROD – Record of Decision
TBD - To Be Determined

2.0 SITE DESCRIPTIONS AND GROUPINGS

This section presents a brief history and status for each site addressed in this SMP. Site-specific information is provided in both text and tabular form. The site-specific summary of findings tables included in this section provide a description of the site, remedial activities conducted or ongoing at the site, the nature and extent of contamination, potential migration pathways, toxicity and persistence of contaminants, and potential for adverse impact to the environment. Figure 8-2 presents the locations of the sites.

2.1 SITE DESCRIPTIONS

2.1.1 Site 1 - Construction Battalion Unit Drum Storage Area

The CBU Drum Storage Area was an unpaved area located in the northern section of NSB-NLON, adjacent to the deployed personnel parking lot and within the boundary of the Area A Landfill. Figure 8-3 provides the general arrangement of the previous site location. The previous site location with respect to other IR sites at NSB-NLON is shown on Figure 8-2. The site was situated on a flat, open area at the base of a wooded hillside that sloped to the northeast toward the site at a 25 percent grade. The site was approximately 15 feet in width by 30 feet in length.

Twenty-six 55-gallon drums of waste oil, lube oil, and paint materials were observed at the site during the 1982 IAS (Envirodyne, 1983). Some of the drums were reportedly leaking at that time. The IAS report concluded that the site had not been used for several years. The site was inspected on October 20, 1988 and two 55-gallon drums labeled as engine oil were observed. No surface soil staining or stressed vegetation was evident. The drums noted in the IAS report were reportedly removed and properly disposed by the Navy; the two drums observed in 1988 were subsequently removed.

Two RIs, Phase I and Phase II, were conducted at Site 1. During the Phase II RI (B&RE, 1997b), it was determined that soil and groundwater samples collected in the vicinity of the site yielded relatively low concentrations of contaminants. Volatile organic compounds (VOCs) were detected in soil samples at concentrations less than or equal to 380 micrograms per kilograms (µg/kg). Only two VOCs (chlorobenzene and total xylenes) were detected in groundwater at concentrations of 12 and 24 micrograms per liter (µg/L), respectively. All semivolatile organics compounds (SVOCs) in groundwater were detected at concentrations less than or equal to 31 µg/L.

The human health risk assessment (B&RE, 1997b) concluded that the risks for the stated exposure scenario did not exceed the EPA acceptable risk range for Incremental Cancer Risk (ICR) ($1x10^{-4}$ to

$1x10^{-6}$). The evaluation of noncarcinogenic risk potential revealed that for the stated exposure scenarios, adverse effects were unlikely.

It was also determined during the Phase II RI that the potential for this site to impact ecological receptors was low. Although the Ecological Risk Assessment (ERA) (B&RE, 1997b) concluded that contaminants associated with this site could adversely impact terrestrial vegetation, soil invertebrates, and terrestrial vertebrates, the calculations were performed using highly conservative estimates. Furthermore, the site was relatively small in areal extent and was characterized by compacted soil that supports limited vegetation and terrestrial species. Therefore, Site 1 did not provide a significant habitat for ecological receptors.

Historically, surface drainage from the CBU Drum Storage Area flowed northeast across the unpaved deployed parking lot (which covered a portion of the Area A Landfill) and into the Area A Wetland via a catch basin and storm sewer located approximately 40 feet northeast of the CBU Drum Storage Area (B&RE, 1997b). Groundwater in this area flows in a northeasterly direction toward Area A Wetland (B&RE, 1997b). Because of the relatively low concentrations of detected contaminants, the immobile nature of these contaminants within the soil matrix, and the lack of contamination detected in the groundwater, NFA was recommended for this site. This site was included in the Phase II RI and a summary of findings table is included as Table 2-1. The groundwater OU at this site was investigated as part of the Area A Landfill Groundwater Monitoring Program and the BGOURI.

An NFA Decision Document for this site was signed by the Navy and regulators and distributed on September 19, 1996 (EPA, 1996). This document removed the CBU Drum Storage Area from further consideration under the IR Program process and changed the status of this site to RC. Although no Remedial Actions (RAs) were implemented specifically for Site 1, Site 1 was covered by a low-permeable cap that was constructed over the Area A Landfill, which encompasses Site 1. Construction of this cap system was completed in September 1997; therefore, the area associated with the former Site 1 is currently capped.

2.1.2 Site 2 - Area A Landfill and Area A Wetland

Site 2 - Area A Landfill

The Area A Landfill is a relatively flat area bordered by a steep, wooded hillside that rises to the south, a steep wooded ravine to the west, and the Area A Wetland to the north. Figure 8-4 shows the location of the Area A Landfill. The location of Site 2 relative to other IR sites is shown on Figure 8-2.

According to the IAS Report (Envirodyne, 1983), the landfill opened sometime before 1957. However, a 1957 aerial photograph shows no apparent landfilling, which may indicate a somewhat later start-up date. All combustible materials generated by base operations that were not salvageable were incinerated, and the residues were disposed in the DRMO, Goss Cove, and Area A Landfills. The base incinerator, which was located in the Lower Subase along the waterfront at the present location of Building 478, ceased operation in 1963. From 1963 to 1973, refuse and debris were disposed in the Area A Landfill. Landfilling operations ceased in 1973. The thickness of the landfill materials is estimated to range from 10 to 20 feet based on test boring data.

The area fill method was reportedly used in landfill operations. New refuse was dumped along the face of previously deposited refuse and covered with earth. The cover material used on the landfill was sand and gravel obtained from the Groton water supply reservoir. After closure, a concrete pad was constructed in the southwestern portion of the landfill, adjacent and to the northeast of Building 373, for above-ground storage of industrial wastes. Up to the time of the RA at the Area A Landfill, the pad was still in existence. In the early 1980s, 42 steel drums, 87 transformers [mineral oil and polychlorinated biphenyls (PCB)], and 60 to 80 electrical switches were found to be stored on the pad. Two transformers and several electrical switches were reportedly leaking. Past leakage of oil was also evident. Most drums were stacked on wooden pallets, and those having PCB labels were covered and bound with plastic sheeting. All these materials were subsequently properly disposed off site.

The IAS Report indicated that refuse, including steel drums, oxygen candles, wood and metal scrap, concrete, and tires, was exposed at the edge of the landfill adjacent to the wetland. The IAS Report also stated that petroleum compounds had recently been poured from containers at two locations in the northwestern portions of the landfill and had flowed into the Area A Wetland. According to the report, when batteries were overhauled, spent sulfuric acid solution was transferred to barrels and transported to the Area A Landfill for disposal. The acid was poured into trenches dug with a bulldozer and subsequently covered with soil. Based on records, established policy, and interviews, the potential for radioactive material having been disposed on site is considered to be effectively zero.

During a 1988 inspection of the site, iron floc was observed along the toe of the slope of the landfill, extending from the dike to the eastern end of the deployed parking lot. Iron floc occurs when groundwater with high concentrations of iron discharges to an oxygen-rich environment. Bacteria use the iron and oxygen to form the orange iron floc. The slope of the landfill had been covered with fill, and material in the landfill was not visible. Sand bags, salt, supplies, and equipment were stored on top of the landfill. Several transformers, USTs, crane weights, and other equipment were previously stored on the concrete pad in the southwestern portion of the landfill.

A two-phase RI was conducted to determine the nature and extent of contamination at the Area A Landfill. The Phase I RI field investigation was conducted from 1990 to 1992 (Atlantic, 1992). The Phase I RI of the Area A Landfill consisted of test borings, monitoring well installation, and soil and groundwater sampling. Landfill materials encountered included glass, brick, wood, plastic, and ash intermixed with sand and gravel material used as cover. The Phase I RI concluded that several risk exposure scenarios exceeded acceptable regulatory levels and that a FS should be performed for the Area A Landfill site.

The Phase II RI field investigation was conducted from 1993 to 1995 (B&RE, 1997b). The Phase II RI of the Area A Landfill consisted of test borings, monitoring well installation, and soil and groundwater sampling. The Phase II RI concluded that shallow groundwater contamination (i.e., VOCs, PCBs, and inorganics) exists at the site, the landfill soil may pose a threat to human receptors due to concentrations of PCBs, and chemicals in the soil could adversely impact ecological receptors. The Phase II RI recommended that, in addition to the installation of the landfill cover system, institutional controls including access/use restrictions and groundwater monitoring should be implemented at the site.

A Focused FS (FFS) for the Area A Landfill (Atlantic, 1995c) was completed in response to the recommendations of the Phase I and Phase II RIs. The FFS evaluated several remedial alternatives. The FFS concluded that the off-site disposal and off-site incineration alternatives would provide superior protection of the environment but that the capping alternative would be more cost effective than the incineration alternative. The capping alternative was selected as the preferred remedial alternative for the Area A Landfill soil OU. The alternative was presented in the Proposed Plan for the Area A Landfill soil OU in June 1995 (Atlantic, 1995d) and was formally selected in the Record of Decision (ROD) that was signed in September 1995 (Atlantic, 1995e).

An RA, which involved the construction of a low-permeability cover system over the landfill area, was performed at the Area A Landfill. The final cover system was constructed from March 3 through September 5, 1997 (B&RE, 1996b and 1998b). The CBU Drum Storage Area (Site 1) and the Rubble Fill Area at Bunker A-86 (Site 4) were also addressed during the RA at the Area A Landfill. Site 1, formerly located within the boundary of the Area A Landfill, was capped at the same time as the landfill. Site 4 was located along the southern boundary of the Area A Landfill. Construction debris and contaminated soil and sediment from the site were removed as part of a time-critical removal action (TCRA) and incorporated into the Area A Landfill subgrade. The status of Area A Landfill is considered RIP. A majority of the Area A Landfill is paved and is currently used for storage of equipment and vehicles.

Operations and maintenance (O&M) of the cover system is being performed in accordance with the draft final O&M Manual for IR Program sites (TtNUS, 2002c). The groundwater at the Area A Landfill is

currently being monitored in accordance with the Groundwater Monitoring Plan (TtNUS, 1999a). Three years of groundwater monitoring have been conducted and reported to date. The fourth year of monitoring is ongoing. The monitoring results do not indicate that any significant contaminant migration from the landfill to the groundwater is occurring. The analytical results from Year 1, Round 4 of the monitoring program were evaluated in the BGOURI Report (TtNUS, 2002a) and the RI recommended that the monitoring program be continued to gather data to evaluate long-term trends in contaminant concentrations and that the decision to proceed to an FS should be made after sufficient data have been collected and evaluated. A summary of findings for the Area A Landfill is included as Table 2-2.

Site 2 - Area A Wetland

The Area A Wetland is located north of the Area A Landfill (see Figures 8-2 and 8-5). The location of the Area A Wetland was undeveloped, wooded land and possibly wetland until the late 1950s. In the late 1950s, dredge spoils from the Thames River were pumped to this area and contained within an earthen dike that extends from the Area A Landfill to the southern side of the Area A Weapons Center.

The Area A Wetland is underlain by dredge spoils that consist of silt and clay with traces of fine sand and shell fragments. The thickness of dredge spoils ranges from 25 to 35 feet on the southern side of the wetland, adjacent to the landfill, and from 10 to 15 feet on the northeastern side of the wetland. The total volume of dredged material in the wetlands is approximately 1.2 million cubic yards.

A small pond is located at the southern portion of the wetland, within which 1 and 3 feet of standing water is present during all seasons. Phragmites is the predominant type of vegetation. It was reported that pesticide "bricks" were placed on the wetland ice during winter and allowed to dissolve as a mosquito control measure. These "bricks" consisted of formulated (water-soluble) 1,1,1-trichloro-2,2-bis(4-chlorphenyl)ethane (DDT) and were used in the 1960s, prior to the 1972 ban on 4,4'-DDT.

A two-phase RI was conducted to determine the nature and extent of contamination at the Area A Wetland. The Phase I RI field investigation was conducted from 1990 to 1992 (Atlantic, 1992). The Phase I RI of the Area A Wetland consisted of test borings, monitoring well installation, and soil, sediment, and groundwater sampling. The Phase I RI concluded that several risk exposure scenarios exceeded acceptable regulatory levels and that an FS should be performed for the Area A Wetland site.

The Phase II RI field investigation was conducted from 1993 to 1995 (B&RE, 1997b). The Phase II RI of the Area A Wetland consisted of test borings, monitoring well installation, and sediment, surface water, and groundwater sampling. The Phase II RI concluded that little evidence of surface water or groundwater contamination exists at the site, the site may pose a risk to a construction worker due to potential exposure to manganese in the groundwater, and significant pesticide, PCB, and Polynuclear

Aromatic Hydrocarbons (PAH) concentrations exist in site soil and sediments (see Table 2-3). The recommendations in the Phase II RI indicated that an FS should be conducted for this site that evaluates a limited action alternative, and it was indicated that the alternative should include groundwater monitoring and access/use restrictions.

The groundwater at the Area A Wetland is currently being monitored under the Area A Landfill long-term groundwater monitoring program. Three years of monitoring have been conducted and reported to date. The analytical results from Year 1, Round 4 of the monitoring program were evaluated in the BGOURI Report (TtNUS, 2002a) and the RI recommended that the monitoring program be continued to gather data to evaluate long-term trends in contaminant concentrations and the decision to proceed to an FS should be made after sufficient data have been collected and evaluated.

2.1.3 Site 3 - Area A Downstream Watercourses and Over Bank Disposal Area

Site 3 - Area A Downstream Watercourses/OBDA Pond

The Area A Downstream Watercourses receive surface water and groundwater recharge from the Area A Landfill, Area A Wetland, Torpedo Shops, OBDA, OBDANE, and surrounding areas and convey them to the Thames River. The Area A Downstream Watercourses include North Lake and several small ponds (Upper Pond, Lower Pond, and OBDA Pond) and interconnected streams (Streams 1 through 6). The general configuration of the Area A Downstream Watercourses and adjacent areas is shown on Figure 8-6. The location of this site relative to other IR sites at NSB-NLON is shown on Figure 8-2.

The primary water discharge point from the Area A Wetland to the Area A Downstream Watercourses is through four 24-inch-diameter metal culvert pipes located within the dike that separates the Area A Wetland from the Area A Downstream Watercourses. The discharge from these culverts forms a small stream (Stream 4) that flows westward for approximately 200 feet into Upper Pond. Upper Pond discharges to Stream 3, which flows northward and then westward toward Triton Avenue (past the OBDANE site) to the entrance of the Torpedo Shops. At this location, it meets the drainage channel from the Torpedo Shops and forms Stream 5. Stream 5 flows westward along Triton Avenue through the Small Arms Range and under Shark Boulevard and eventually discharges to the Thames River at the DRMO outfall. A second pond (Lower Pond), northwest of Upper Pond, is a natural depression and is recharged by groundwater inflow. The outlet of the pond forms Stream 2, which enters a storm sewer and flows to the west around North Lake.

Groundwater passing beneath the Area A Landfill/Wetland dike discharges to a small pond (the OBDA Pond) located at the base of the dike and the OBDA. Stream 1 flows from this pond westward toward North Lake, a recreational swimming area for Navy personnel. Under normal flow conditions, the stream

enters a culvert that by-passes North Lake and discharges to a stream (Stream 6) below the outfall of the lake. Stream 6, which is formed by Stream 1, Stream 2, and the outflow of North Lake, flows westward under Shark Boulevard and through the golf course to the Thames River. North Lake is filled with potable water every year and drained at the end of the season. Surface water levels in North Lake do not appear to coincide with groundwater levels in adjacent monitoring wells, indicating little hydraulic connection between the surface water of North Lake and shallow groundwater.

Most of the area is within designated Explosive Safety Quantity Distance (ESQD) arcs of the Area A Weapons Center; therefore, further development is not planned for this area. Navy regulations prohibit construction of inhabited buildings or structures within these arcs and, although existing buildings operate under a waiver of these regulations, no further construction is planned.

The main cause of contamination at the Area A Downstream Watercourses was the application of pesticides. These pesticides were reportedly applied on the surface of water bodies to control mosquito proliferation adjacent to the nearby base recreational facilities (North Lake and golf course). Additional contaminants are the inorganic constituents of the river dredge spoil and Area A Landfill material that have been carried over from adjacent sites. Samples of surface soil and sediment contained mainly DDT, 1,1-dichloro-2,2-bis(4-chlorphenyl)ethane (DDD), and 1,1-dichloro-2,2-bis(4-chlorphenyl)ethene (DDE), collectively referred to as DDTR, and small amounts of other pesticides such as dieldrin. Samples of sediment also contained relatively high levels of several metals (such as arsenic, beryllium, cadmium, lead and zinc) compared to less contaminated reference areas outside the site.

A two-phase RI/FS was conducted to investigate and determine appropriate remedial alternatives for Site 3. The Phase I RI field investigation was conducted from 1990 to 1992 (Atlantic, 1992). This investigation consisted of test borings, monitoring well installation, and soil, surface water, sediment, and groundwater sampling. The RI concluded that several risk exposure scenarios exceeded acceptable regulatory levels and that an FS should be performed for the site. A draft FFS (Atlantic, 1994c) was completed for the soil and sediments at the site. Additional soil and sediment samples were collected and analyzed during the FFS to further define the extent of contamination. The FFS concluded that off-site landfilling and on-site thermal desorption provide superior protection of the environment and that the landfilling alternative would be more cost effective than the on-site thermal desorption alternative.

The Phase II RI field investigation was conducted from 1993 to 1995 (B&RE, 1997b). This investigation also included test borings, monitoring well installation, and soil, surface water, sediment, and groundwater sampling. A soil gas survey and an extensive ecological investigation were also completed during the Phase II RI. The Phase II RI concluded that VOCs were present in the groundwater at Site 3, the site poses noncarcinogenic risks to the site worker and older child trespasser, and notable concentrations of

pesticides exist in site soil and sediments. The Phase II RI recommended that the FS for this site should be revisited to focus on pesticides in soil and sediment, that more sampling should be conducted to delineate pesticide contamination and determine the origin of VOCs in groundwater, and finally, that debris associated with the OBDA should be removed.

Following the Phase II RI, an FS was completed in 1997 for soil and sediment at Site 3 (B&RE, 1997j). An alternative that included dredging, on-site dewatering, off-site disposal of sediment and soil, restoration of wetlands and waterways, and monitoring was selected for the site, and the selected remedy was documented in a ROD that was signed in March 1998 (B&RE, 1998c). A Remedial Design (RD) was completed for the soil and sediment at Site 3 in 1998 and 1999 [Foster Wheeler Environmental Corporation (FWEC), 2000]. The RA for Site 3 soil and sediment was completed in 1999 and 2000 (FWEC, 2001). A monitoring program has been conducted since the end of construction in 2000 to verify the success of site restoration activities. Wetlands functions and values and survival rates of vegetation are two of the key elements monitored. Some replanting of vegetation has been conducted based on the recommendations of the monitoring program.

A previously unknown source of petroleum contamination was detected during the RA at Site 3. The source, found during the remediation of Stream 5, is located on the northern side of the stream just east of the Small Arms Range. Petroleum product was discovered emanating from the northern side of the excavation. Upon further investigation, a small disposal area (i.e., buried drums, cable, etc.) was discovered upgradient of the location where petroleum was discovered. The site was named the Site 3 – NSA. The Site 3 – NSA was not remediated at the time of the RA because the nature and extent of contamination were unknown; however, absorbent booms and hay bales were put in place during construction activities to minimize the migration of contamination downstream, and plastic sheeting was placed along the stream bank prior to backfilling to minimize further contaminant migration to Stream 5.

Based on the recommendations of the Phase II RI, further investigation of the groundwater at Site 3 was completed during the BGOURI (TtNUS, 2002a). The field work for the BGOURI was completed prior to the identification of the Site 3 – NSA. The scope of the investigation included the installation of temporary monitoring wells and the sampling of groundwater in temporary and existing permanent monitoring wells. Chlorinated VOCs similar to those detected during the Phase II RI were detected at lower concentrations during the BGOURI. It was hypothesized that the Site 3 – NSA or an upgradient source such as the leach fields at Site 7 may have been the source of the VOCs.

A DGI was conducted at Site 3 in the fall of 2002 to investigate the NSA and to confirm the groundwater results of the BGOURI. The results of the DGI were presented in the BGOURI Update/FS (TtNUS, 2004). The soil sampling program and a portion of the groundwater sampling program were concentrated on

determining the overall nature and extent of contamination at the Site 3 – NSA. The remaining portion of the groundwater sampling program was focused on confirming the nature and magnitude of the groundwater contamination identified during the BGOURI. Petroleum contamination was identified at the Site 3 – NSA during the DGI; however, no significant source of VOC contamination was identified at the Site 3 – NSA. The groundwater data collected during the DGI indicated that the VOC contamination was originally released upgradient in the Site 7 area and is in the process of migrating through Site 3. It is likely that the primary original compound released was trichloroethene (TCE). There were detections of VOCs along Stream 5 from Site 7 to the Thames River. Comparisons of results from the Phase II RI, BGOURI, and DGI show that the VOC concentrations in groundwater are decreasing steadily and that degradation products from the dechlorination of TCE have been detected, indicating natural attenuation is occurring. A summary of findings for Site 3 is included as Table 2-4.

An FS (TtNUS, 2004) was completed to identify and evaluate appropriate remedial alternatives for the soil at Site 3 – NSA and the groundwater at Site 3. Separate Proposed Plans and RODs are currently being prepared to document the selected remedies for the Site 3 – NSA soil and Site 3 groundwater. The anticipated remedies for the soil and groundwater are excavation and off-site disposal and institutional controls and monitoring, respectively.

Site 3 - OBDA Debris

The OBDA was located on the slope of the dike below and adjacent to the Area A Landfill (Figures 8-2 and 8-6). It was located on the southwestern end of the dike where the angle of the slope approaches 45 degrees. A small wetland at the base of the dike has been designated as the OBDA Pond. The OBDA was used as a disposal site after the earthen dike was constructed in 1957. The IAS Report (Envirodyne, 1983) indicated that the material had been there for many years. The IAS Report also indicated that the materials were not covered and included 30 partially covered 200-gallon metal fuel tanks and scrap lumber. The site was inspected in 1998, and it was observed that the tanks were still present at the site and old creosote telephone poles, several empty unlabeled 55-gallon drums, and rolls of wire were present at the site. Orange iron floc was observed in the sediments in the area where water was discharging from the base of the dike embankment.

The OBDA Pond, located downgradient of the OBDA, was investigated as part of the Area A Downstream Watercourses during the Phase I and II RIs and the FFS and FS for the site. No investigative activities were completed within the limits of the disposal area. All the debris from the OBDA area was removed and disposed off site as part of a non-time-critical removal action (NTCRA) in 1997. This removal action was completed during the Area A Landfill RA because the sites are located adjacent to one another. An Engineering Evaluation/Cost Analysis (EE/CA) and Action Memorandum were prepared in 1997 to document the decision process for the NTCRA (Navy, 1997b). The soil resulting from the

decontamination of debris and concrete debris were incorporated into the subgrade of the Area A Landfill. Two gas cylinders were removed from the OBDA. One of the tanks (i.e., acetylene) was disposed as hazardous waste. All other debris was disposed off site as clean waste in permitted landfills or at metal recycling facilities. Because the debris has been removed, the status of this site is RC. A summary of findings for the OBDA is included as Table 2-5. The groundwater for Site 3 is being addressed under the Area A Downstream Watercourses/OBDA Pond.

2.1.4 Site 4 - Rubble Fill Area at Bunker A-86

Site 4 was a 25-foot by 60-foot plot located in the north-central section of NSB-NLON, approximately 80 feet west of Bunker A-86 and just south of the Area A Landfill. The site map is included as Figure 8-7. The previous site location with respect to other IR sites at NSB-NLON is shown on Figure 8-2. According to the IAS Report (Envirodyne, 1983), waste materials, including an electric motor, concrete, asphalt, tar buckets, wood, and gravel, were discarded at the site in the early 1970s. In addition to wood and concrete construction debris, previous investigations located an empty 5-gallon container of monothanolanine (labeled as a corrosive), an empty 5-gallon container of thorite (labeled as nonshrinking compound for patching concrete), and a 55-gallon drum of lube oil that was approximately 10 percent full at the site (Atlantic, 1992).

A low-permeability cover system was installed over the Area A Landfill in 1997. In conjunction with the construction of this cover system, an interception trench was constructed into the hillside between the Area A Landfill and Site 4. Grading required for the construction of the interception trench involved excavating the soil at Site 4 and the hillside between Site 4 and the Area A Landfill to a depth of approximately 8 feet. This excavation constituted a TCRA for Site 4, and an Action Memorandum was written for this site in September 1997 (Navy, 1997d).

The Site 4 soil and construction debris were excavated during the removal action and incorporated into the Area A Landfill subgrade, except wood debris, which was sampled and disposed off site (FWEC, 1997a). Following the excavation, verification sampling was conducted in an area of about 17,000 square feet to determine the extent of residual contamination. The Verification Sampling Report (B&RE, 1997c) concluded that, if the human health risk assessment conducted for the Phase II RI were revised using the verification sampling data, the cumulative ICR would exceed the upper limit of the EPA target risk range (i.e., $1x\ 10^{-4}$). Based on this information, the Navy decided to remove the remaining soil at Site 4, leaving only exposed bedrock. The Navy prepared a risk evaluation memorandum in March 1998 to document the negligible remaining risks associated with the site. An NFA Proposed Plan (Navy, 1998c) and ROD (Navy, 1998d) were prepared for this site. The status of this site is considered to be RC. The groundwater in this area is being monitored in conjunction with the Site 2 long-term groundwater monitoring plan. A summary of findings for this site is included as Table 2-6.

2.1.5 Site 6 - Defense Reutilization and Marketing Office

Site 6 is located adjacent to the Thames River in the northwestern section of NSB-NLON. The site map is included as Figure 8-8. The site's location relative to other IR sites is located on Figure 8-2. The site is located between a bedrock outcrop that runs roughly parallel to the Providence and Worchester Railroad to the east and the Thames River to the west. The site covers approximately 3 acres of land gently sloping toward the Thames River. A majority of the site is paved with an asphalt layer, and the site includes buildings, a weighing scale, and miscellaneous storage piles. Currently, the DRMO is used as a storage and collection facility for items such as computers, file cabinets, and other office equipment to be sold during auctions and sales held periodically during the year.

From 1950 to 1969, the DRMO was used as a landfill and waste-burning area. Non-salvageable waste items including construction materials and combustible scrap were burned along the Thames River shoreline, and the residue was pushed to the shoreline and partially covered.

During the review of archived aerial photographs of the DRMO area, the 1934 photographs show fill in the southern portion of the site. Fill for bulkheads and docks south of the DRMO did not exist at that time. Aerial photographs from 1951 show the land in its present configuration, except for the northwestern portion, which was not filled at that time.

During a site inspection on September 30, 1988, it was noted that metal and wood products were stored throughout most of the site. Buildings 355 and Building 479 are located in the southern, paved portion of the site and are primarily used for storage. A large scrap yard is located north of Building 479. Building 491, located in the northern, unpaved portion of the site was used to store miscellaneous items including batteries. Metal scrap bailing operations are performed adjacent to Building 491 on a gravel surface. Building 491 formerly housed a battery-acid-handling facility. Submarine batteries were previously stored in the southeastern portion of the site, adjacent to the railroad tracks. No evidence of leaks was observed. An in-ground, rubber-lined tank and associated pumping facilities were noted on the plans. DRMO personnel indicated that the tank actually may have been installed directly adjacent to the building to the east.

A Conforming Storage Facility Report [Goldberg-Zoino & Associates (GZA), 1988] for the DRMO was prepared in 1988 as a requirement for the siting of a hazardous waste storage facility in the northern portion of the DRMO. The study performed for the report indicated the presence of PCBs and other contaminants at the DRMO.

A two-phase RI was conducted to determine the nature and extent of contamination at the DRMO. The Phase I RI field investigation was conducted from 1990 to 1992 (Atlantic, 1992). The Phase I RI of the DRMO consisted of test borings, monitoring well installation, and soil, surface water, and groundwater sampling. Some evidence of the former landfill was encountered during the drilling, including wood fragments, brick, and metal but predominately earth fill material. The depth of the fill varied from 0 to 8 feet. Human health risks were determined for Navy workers due to exposure to PCBs, PAHs, and beryllium in the surface soil and due to elevated lead levels in soil at the northern portion of the site. In addition, groundwater quality exceeded drinking water standards; however, no drinking water wells were within the affected area nor could they be due to the proximity of the brackish Thames River. Risks to fish in the Thames River estuary were determined to be low from contaminants contained in the groundwater discharged from the site. It was recommended that the site proceed to the FS phase. It was also recommended that specific health and safety provisions be made for all subgrade construction projects at the site. The risks were primarily related to incidental oral and dermal exposure of site workers to contaminated surface soils (Atlantic, 1992).

A field investigation in support of the draft FFS was performed at the DRMO in October 1993 to better define the extent of soil contamination. Surface and subsurface soil samples were collected from 17 borings, and one of the borings was completed as a monitoring well. The soil borings indicated that the depth of fill ranged from approximately 1.5 to 20 feet. Fill material consisted of wood, glass, and metal scrap in a predominately sand and gravel matrix (Atlantic, 1994a).

A TCRA was completed at the site in January 1995. The removal action was completed at generally the same time as the Phase II RI. Initial activities at the site included pre-excavation sampling and analysis focused on better defining the limits of PCB-contaminated soils in the areas to be excavated. Confirmatory soil sampling and analysis were conducted on the sidewalls of the excavations. Human health and ecological risks associated with the soil left in place after the removal action were evaluated during the Phase II RI. Approximately 2,500 cubic yards of lead-, PAH-, and PCB-contaminated soils were excavated from the northern portion of the DRMO as part of a TCRA (B&RE, 1997b). The excavated area was backfilled with clean soil, and the excavated soil was transported off site to a RCRA landfill (B&RE, 1997b). The backfilled area was then capped with woven geotextile liner, a geosynthetic clay liner, a nonwoven geotextile liner and approximately 9 inches of crushed stone, and 3 inches of asphalt. The remaining portion of the DRMO was repaved. An Action Memorandum was prepared in March 1995 (Atlantic, 1995b) to document the removal action completed at the DRMO.

The Phase II RI field investigation was conducted from 1993 to 1995 (B&RE, 1997b) and consisted of the installation of five new monitoring wells, two rounds of groundwater sampling, and subsurface soil sampling. The Phase II RI concluded that the majority of contaminated soil had been removed, the groundwater was

not significantly affected, and there were relatively low human health and ecological risks associated with the DRMO. The Phase II RI recommended NFA be conducted for the DRMO soil and groundwater and that groundwater monitoring be conducted to verify that significant contamination is not leaching to the groundwater.

An FS (B&RE, 1997g) was completed for the soil and groundwater at the DRMO, and the selected remedial alternative (institutional controls and monitoring) was documented in an interim ROD (Navy, 1998a). The status of the site is RIP.

O&M of the cover system at the DRMO is being performed in accordance with the draft final O&M Manual for Installation Restoration Program Sites (TtNUS, 2002c). A groundwater monitoring program began at the DRMO in April 1998 in accordance with the Groundwater Monitoring Plan (B&RE, 1998a) and is ongoing. The results of the program are being used to verify the effectiveness of the cap in reducing infiltration and leaching of contaminants and to confirm that contamination is not migrating from the soil to groundwater and eventually to the Thames River. To date, the monitoring results have not shown any significant contaminant migration issues. A final ROD for Site 6 will be prepared in the future. A summary of findings for Site 6 is included as Table 2-7.

2.1.6 Site 7 - Torpedo Shops

The Torpedo Shops (Site 7) are located in the northern portion of NSB-NLON on the northern side of Triton Road. Figure 8-9 shows the general site arrangement. The site location with respect to other IR sites at NSB-NLON is shown on Figure 8-2. The site covers approximately 7 acres and is bordered on the east and north by 60-foot-high bedrock cliffs. The remainder of the site slopes to the southwest toward the Area A Downstream Watercourses (Site 3). An earthen berm extends along the base of the eastern portion of the exposed rock face. Three buildings (325, 450, and 477) exist at the site.

Building 325 is a torpedo overhaul facility. It was built in 1955 and had an on-site sanitary septic system until 1983, when all the building's plumbing facilities were connected to sanitary sewers. The original septic leach field for Building 325 is located southwest of the building, adjacent to Triton Road. This leach field became clogged in 1975 and was abandoned. A new leach field (south leach field) was constructed next to the original leach field and was used until sanitary sewers were installed in 1983.

A visual inspection of Building 325 was performed on March 20, 1989. According to interviews with on-site personnel, a variety of fuels, solvents, and petroleum products have been used in the building. Otto Fuel II [which is comprised of propylene glycol dinitrate (76 percent), 2-nitrodiphenylamine (1.5 percent), and di-n-butyl sebacate (22.5 percent) and produces hydrogen cyanide when burned], high-octane alcohol (190-proof grain alcohol), and TH-Dimer (jet rocket fuel) were observed in maintenance areas.

Solvents including mineral spirits, alcohol, and 1,1,1-trichloroethane, as well as petroleum products such as motor oil and grease, were used in this building. A sink in one area was previously used for film development, and another sink was used for the overhaul of alkaline batteries. These sinks drained into the on-site septic system until 1983. A maintenance area has a shallow sump covered with a flush-mounted steel grating. The area surrounding this sump was previously a washdown/blowdown area for weapons. This sump drains to the storm sewer system on the western side of Building 325. Two No. 2 fuel oil USTs were located on the southern side of this building. One of the tanks was closed in 1995. A third tank, which was located above ground adjacent to the building, was used for temporary storage of No. 2 fuel oil but, based on field reconnaissance, had been removed as of March 15, 1995.

A smaller building attached to the eastern side of Building 325 was previously used as an assembly shop for torpedoes and as a paint shop. During a previous inspection at the building, a storage closet was found to include containers of 1,1,1-trichloroethane and methyl ethyl ketone (2-butanone). Drums and cylinders were stored outside on the eastern side of this building. The vessels were labeled as containing propane, isobutane, 2-butanone, xylot, methylene chloride, propellant, and zinc chromate. An addition to the northern side of Building 325 was under construction at the time of the 1989 inspection and has since been completed. This addition is also used as a torpedo shop.

Building 450 is the primary MK-48 torpedo overhaul/assembly facility. It was built in 1974 and was served by its own septic system until 1983, when it was connected to sanitary sewers. Only domestic wastewater from toilets, lavatories, and showers in Building 450 had been directed to the septic field (north leach field). Torpedo overhaul/assembly operations of Building 450 generate fuels, solvents, and petroleum products as wastes. An Otto fuel and seawater mixture is drained from the torpedoes, which are then replenished with fresh fuel. The IAS report indicated that Building 450 generates approximately 3,000 gallons of Otto fuel wastewater per month. This building was constructed with a waste collection system that collected waste products from floor drains and discharged to an underground waste tank/sump with a capacity of approximately 1,500 gallons. The waste tank was pumped periodically and the contents were disposed off site. Otto fuel product was previously stored in a 4,000-gallon underground tank south of Building 450.

Building 477, approximately 65 feet east of Building 450, was formerly used to store Otto fuel in drums. On-site personnel report that solvents including 1,1,1-trichloroethane, TCE, toluene, mineral spirits, alcohol, and bulk freon have been used at this facility. Petroleum products including TL-250 motor oil and hydraulic fluid have also been used in this building for torpedo maintenance. In the past, only domestic wastewater from toilets, lavatories, and showers in Building 450 was directed to the septic field (north system).

Atlantic performed a site inspection of Building 450 on March 20, 1989. The former septic leach field is located southwest of this building in a flat, elevated area. The hazardous waste sump was no longer in use and reportedly was decommissioned in 1987. It was replaced with three 1,000-gallon above-ground tanks located south of the building. The floor drains were sealed and replaced with a new system for pumping waste products to the new tanks. A 4,000-gallon above-ground Otto fuel storage tank replaced the previous tank and is located south of the building. No construction is planned for the immediate future at Building 450.

The Phase I RI (Atlantic, 1992) for Site 7 focused primarily on subsurface soils because the sources being investigated at that time were the subsurface leach fields. The investigation began with a soil gas survey of the area surrounding Buildings 450 and 325. These results were used to guide the installation of monitoring wells and the collection of soil samples from the well and test borings. The Phase I RI concluded that there were negligible health risks associated with the Torpedo Shops and that this site should proceed to Step II of the IR Program (i.e., Phase II RI).

During the Phase II RI (B&RE, 1997b), minimal contamination was detected in each of the matrices sampled at the Torpedo shop (i.e., soil, groundwater, surface water, and sediment). Contamination was detected in soil and groundwater at the site that required further characterization; however, relatively low human health and ecological risks are present at the site. Minimal exceedances of State criteria were observed for sediment, and no chemicals detected in surface water exceeded the State human health Ambient Water Quality Criteria (AWQC) for the consumption of organisms and/or water and organisms.

Phase II RI sampling results included notable detections of contamination in soil and groundwater near the abandoned leach field. A human health risk assessment showed that non-cancer risks were less than acceptable levels except for the construction worker and future resident, and cancer risks were less than acceptable levels except for a hypothetical future resident. The Phase II RI recommended that further characterization of the Torpedo Shops be completed before determining whether or not the site should proceed to the FS stage.

A removal action was completed within the Site 7 along the southern side of Building 325 in December 1995. This action was completed under the CTDEP UST Program. The focus of the effort was to remove soil contaminated with total petroleum hydrocarbons (TPH) in excess of the direct exposure remediation standard for residential use. Approximately 12 cubic yards of soil were removed from the site and disposed at an approved landfill (B&RE, 1996a).

The BGOURI (TtNUS, 2002a) was completed based on the recommendation of the Phase II RI. The objectives of the BGOURI at Site 7 were to further characterize the nature and extent of soil and

groundwater contamination in the vicinity of the abandoned septic system and to quantify the risks to human receptors from the soil and groundwater. Organic contaminant detections in soils were scattered and were primarily PAHs. Metals detections were scattered and were in general only slightly greater than the background concentrations. Groundwater sampling results from the BGOURI indicated that there are only sporadic, low concentrations of contaminants in the groundwater. A small plume of chlorobenzenes was detected west of Building 325, but there were no other discernable contaminant plumes of any size, indicating that there are no significant sources leaching contamination to groundwater at Site 7. Chemical concentrations [bis(2-ethylhexyl)phthalate and TCE] in several wells located within the western portion of Site 7 exceeded Maximum Contaminant Levels (MCLs); however, the exceedances varied from well to well. The human health risk assessment showed that the risks posed from exposure to contaminated soil at Site 7 were generally low; however, the risks posed by two chemicals exceeded CTDEP's target level for individual chemicals, and there were several chemicals detected at concentrations greater than CTDEP's direct exposure criteria. The risk assessment also determined that risks to current receptors from exposure to groundwater at Site 7 are within acceptable levels, but future residential groundwater usage could result in unacceptable risks. A summary of findings for Site 7 is included as Table 2-8.

An FS (TtNUS, 2004) was completed to identify and evaluate appropriate remedial alternatives for the soil and groundwater at Site 7. Separate Proposed Plans and RODs are currently being prepared to document the selected remedies for the soil and groundwater. The anticipated remedies for the soil and groundwater are excavation and off-site disposal and institutional controls and monitoring, respectively.

2.1.7 Site 8 - Goss Cove Landfill

The Goss Cove Landfill (Site 8) is located in the southwestern corner of NSB-NLON, adjacent to the Thames River. It is west of Shark Boulevard and the intersection of Crystal Lake Road and Military Highway, east of the Thames River, and north of Goss Cove. Figure 8-10 displays the general site arrangement. The site location with respect to other IR sites at NSB-NLON is shown on Figure 8-2. The landfill encompasses approximately 3.5 acres. The Nautilus Museum and a paved parking lot are constructed directly over the site of the former landfill. The Nautilus Museum is a submarine museum operated by the Navy and open to the public.

The IAS Report (Envirodyne, 1983) indicated that the Goss Cove Landfill was operated from 1946 through 1957. Incinerator ash and inert rubble were disposed at the site in what was then the northern portion of Goss Cove. It is not known if any other materials were disposed in the former landfill. It has been reported that several large compressed gas cylinders were uncovered during the excavation of a utility trench in the parking area north of the Nautilus Museum building. One of the cylinders was leaking propane, one was filled with ammonia, and the others were empty.

In a 1934 aerial photograph, the limits of Goss Cove appeared to be open water with no evidence of fill. Railroad tracks are shown in the photograph at the same location as they are currently, between the cove and the Thames River. In 1951 aerial photographs, the fill extended to the south to approximately the location of an access driveway to the museum. The 1965 aerial photographs show the landfill extending to the present limit of encroachment on Goss Cove. Aerial photographs from 1965, 1970, 1975, and 1980 show cars parked on the landfill surface. In 1986 photographs, the Nautilus Museum is present on the southern limits of the landfill, and a paved parking area extends over the remaining portion of the landfill to the north. Construction of the Nautilus Museum was completed in 1985. Construction of an addition to the Nautilus Museum was completed in 2000.

The boring logs generated during the construction of the Nautilus Museum indicated the presence of fill material consisting of cinders, metal, brick, glass, and sand and gravel to a depth of 15 feet. Beneath the fill is a layer of organic silt that is approximately 10 to 15 feet thick. This material is presumably the sediment bottom of the former cove. The silt is underlain by fine sand to depths ranging from 25 to 100 feet below the surface. The thickness of overburden increases from east to west, toward the river.

A two-phase RI was conducted to determine the nature and extent of contamination at the Goss Cove Landfill. The Phase I RI field investigation, conducted from 1990 to 1992 (Atlantic, 1992), consisted of a soil gas survey, test borings, monitoring well installation, and soil, surface water, and groundwater sampling. Overburden monitoring wells were installed within the former landfill, and groundwater samples were obtained. One surface water sample was collected in the Thames River downstream of the landfill. The RI recommended that the site proceed to Step I of the IR Program and additional investigations be conducted at the site.

The Phase II RI field investigation was conducted from 1993 to 1995 (B&RE, 1997b). This investigation included the collection of surface and subsurface soil samples from well borings. Surface and subsurface soil samples were also collected from test borings. Shallow and deep monitoring wells were installed. Groundwater samples were collected from the Phase I and Phase II monitoring wells during each of two rounds of sampling. Surface water and sediment samples were also collected during the Phase II RI from the perimeter of Goss Cove. Additional sediment sampling was conducted in Goss Cove to perform a supplemental Toxicity Identification Evaluation (TIE). Three rounds of air sampling were performed. Air samples were collected from within and around the Nautilus Museum.

Full-time employees, older child trespassers, construction workers, and future residents were evaluated as potential human receptors in the site-specific Human Health Risk Assessment (HHRA) completed during the Phase II RI. The results of the risk assessment showed that no unacceptable human health risks are associated with exposure to various media, based on exposure to average contaminant

concentrations. All estimated Hazard Indices (HIs) for incidental ingestion, inhalation, and dermal contact with contaminated media are less than 1.0. All estimated cancer risks for these exposure routes are within the EPA target risk range and less than the cumulative CTDEP target risk of $1x10^{-5}$. Human health risks were also calculated under conditions involving exposure to maximum contaminant concentrations [i.e., the reasonable maximum exposure (RME) scenario] for all potential human receptors. Estimated HIs for the construction worker, older child trespasser, and future resident exceeded 1.0. Elevated risks for the construction worker were primarily attributable to tetrachloroethene (PCE) in groundwater, and risks for the future resident were primarily attributable to PCBs, arsenic, and antimony in soil. Estimated cancer risks for the full-time employee, older child trespasser, construction worker, and future resident all exceeded Connecticut's cumulative target cancer risk of $1x10^{-5}$. Except for the construction worker, elevated risks were associated with soil ingestion resulting from exposure to PAHs and arsenic. An additional exposure route of concern is dermal contact with groundwater for the construction worker. PCE is the main contributor to the carcinogenic risks for dermal contact with groundwater. Quantitative risks associated with exposure to ambient air at the Nautilus Museum were calculated for a full-time employee under RME conditions only. The estimated HI (0.28) was significantly less than unity for a full-time employee. The cumulative cancer risk ($1x10^{-5}$) was within the EPA and CTDEP acceptable risk range.

Results of the Phase II RI ERA, conducted on samples of surface water and sediments collected in the cove, indicated that several inorganics and organic compounds (i.e., metals and pesticides) were found at concentrations in excess of benchmark values protective of aquatic biota, suggesting that aquatic biota inhabiting the cove could be adversely impacted. In response to the results of the studies conducted during Round I of the Phase II RI, additional sampling was conducted in Goss Cove during the supplemental ecological sampling round. The results indicated that four Chemicals of Concern (COCs) (aluminum, copper, nickel, and heptachlor) were present in surface water at concentrations that represent a potential risk to aquatic biota. A number of chemicals also had Hazard Quotients (HQs) greater than 1.0, suggesting that benthic macroinvertebrates were potentially at risk. The results of toxicity tests confirmed that chemicals present in this sample were biologically available in concentrations that could adversely impact aquatic biota. Results of the simultaneous extracted metals/acid volatile sulfide (SEM/AVS) analyses conducted to determine the biological availability of copper, cadmium, nickel, lead, and zinc demonstrated that these five metals are not biologically available.

A DGI was conducted in January 1997 (B&RE, 1997e) to determine the source of the PCE contamination detected in the groundwater samples collected during the Phase II RI. The DGI concluded that the source of PCE contamination detected in the groundwater is off site and upgradient of the site and is likely a neighboring dry cleaning establishment. The CTDEP conducted a Phase I/II Environmental Site Assessment of the dry cleaners in 1998 (CTDEP, 1999). The assessment involved interviewing the

operator of the dry cleaners and collecting medium-specific samples. The results of the investigation conclusively showed that the dry cleaners released PCE to the environment. This information indicates that the dry cleaner is the source of the PCE that was detected in the downgradient groundwater at the Goss Cove Landfill.

An FS for the soil/waste and sediment at Site 8 (TtNUS, 1999c) was prepared in 1999. Additional investigations conducted as part of the FS are as follows:

- A desktop modeling effort was performed as part of the FS to evaluate the potential for migration of COCs from the former Goss Cove Landfill into Goss Cove. Results of this modeling effort showed that migration of COCs is unlikely to occur in the future from the former Goss Cove Landfill to Goss Cove.

- A Wetlands Functions and Values Assessment was completed to evaluate if the ecological stress in the Goss Cove water body was a result of natural conditions or due to migration from NSB-NLON sites. This study evaluated the marginal cove vegetation in terms of its ecological functions and values and identified the wetland species associated with the fringing belt. The results of this assessment were that the contrast between the Thames River and cove side is dramatic due to the lack of tidal flushing. Although some tidal action occurs within the cove, it does not appear adequate to aid in supporting a rich, viable, intertidal algal population and invertebrate biota. This may be related to water quality because it appears that estuarine organisms can and have become established in the cove in the past but have failed to thrive.

- Because the Phase II RI ERA showed potential risks to ecological receptors from Goss Cove sediment, further investigation and evaluation of the sediment was completed. An Evaluation of Chemical and Toxicological Data study was conducted in 1998 (SAIC, 1998) to evaluate chemical and toxicological relationships for sediments in Goss Cove. The objective of the study was to establish toxicological response relationships to contaminants in Goss Cove sediments, describe the extent of ecological risks associated with chemical contaminants in Goss Cove sediments, and identify risks for biological effects. Based on data needs, 10 stations were sampled for chemical, toxicological, and TIE. The study supports the conclusion that a complete pathway does not exist between contaminants and observed ecological effects. It may be possible to improve benthic habitat quality by reducing the hypoxic conditions in the cove, thereby reducing the ammonia concentrations that appear to cause the depauperate aquatic community.

The investigations showed that the contaminant levels detected in the sediment and surface water in Goss Cove did not pose potential adverse risks to human health or the environment. Based on these

findings, NFA was recommended for these media. The two remedial alternatives evaluated for the soil/waste in the FS were no action and installation of an engineered control cap (presumptive remedy) with institutional controls and monitoring. The capping alternative was selected for Site 8, and the ROD for this site was signed by the Navy and regulators in September 1999.

The RD for the Site 8 soil began in October 1999. Additional field work (i.e., field survey, geotechnical field investigation, and geotechnical laboratory testing program) was conducted to collect the necessary data to complete the design. The RD was finalized in November 2000 (TtNUS, 2000b), and construction of the engineered cap system was completed in June 2001.

The BGOURI was completed (TtNUS, 2002a) to further evaluate the potential risks identified in the Phase II RI associated with exposure to groundwater by human receptors. The field work for the BGOURI was completed prior to construction of the engineered cap system. Groundwater samples were collected from existing permanent monitoring wells to further characterize the site. The analytical data from the RI indicate that sources of VOCs, SVOCs, and metals within the fill material are continuing to impact the shallow groundwater at the site. It is likely that these chemicals are mobile and being transported in the groundwater to the Thames River. However, the results of the human health risk assessment showed that all risks for construction workers exposed to groundwater at Site 8 were less than or within target risk ranges. The BGOURI recommended that the Navy complete the RA for the soil, implement land use controls, and begin groundwater monitoring in accordance with the Groundwater Monitoring Plan (TtNUS, 2001a) as soon as the action is finalized. It was recommended that the decision for preparation of an FS for the groundwater at Site 8 be postponed until site conditions stabilize and the trends in groundwater contaminant concentrations are determined based on results of the groundwater monitoring program.

O&M of the cap system at Site 8 is being performed in accordance with the draft final O&M Manual for IR Program Sites (TtNUS, 2002c). The groundwater monitoring program for Site 8 began in 2001 (TtNUS, 2001a) and is ongoing. The results of the program are being used to verify the effectiveness of the cap in reducing infiltration and leaching of contaminants and to confirm that contamination is not migrating from the soil to groundwater and eventually to the Thames River. The analytical results for the first year of groundwater monitoring at the Goss Cove Landfill showed exceedances of the primary monitoring criteria and the related site-specific background for several analytes (VOCs, SVOCs, and metals). Phenanthrene concentrations appear to be increasing over time in the localized vicinity of shallow wells 8MW2S and 8MW3. Several compounds were also detected in upgradient wells at concentrations greater than downgradient wells indicating an upgradient source of these compounds. A remedy for Site 8 groundwater will be selected in the future. A summary of findings for Site 8 is included as Table 2-9.

2.1.8 Site 9 - Oily Wastewater Tank (OT-5)

Site 9, Waste Oil Tank (OT-5), was an underground, concrete storage tank located between Sculpin Avenue and Tang Avenue in the southern portion of NSB-NLON. The investigations at Site 9 were conducted under the CTDEP RCRA UST Program. The site map is included as Figure 8-11. The site's location relative to other IR sites is shown on Figure 8-2. The tank had a diameter of approximately 112 feet and was 11 feet deep. The top of the tank was approximately 5 feet below the ground surface. The tank had a capacity of approximately 750,000 gallons.

The tank was constructed in the 1940s and was used to store fuel oil. In the late 1970s, the tank was converted to a storage tank for bilge water and other waste solutions. Use of OT-5 stopped in 1993 and all tank contents including floating product and most of the settled sludge were removed (HNUS, 1994a). A residual sludge layer of approximately 2 to 3 inches was left in the tank during purging. This sludge contained PCBs at concentrations exceeding 500 mg/kg [Halliburton NUS (HNUS), 1994a].

After OT-5 was emptied, groundwater infiltrated through cracks in the concrete surface and partially refilled the tank (HNUS, 1994a). Subsurface contamination of the surrounding soil and groundwater may have been caused by draining of the infiltrated water through the cracks and into the surrounding media.

In 1994, HNUS completed a removal action at OT-5. The task included the removal and disposal of PCB-contaminated sludge at OT-5. Removal of the OT-5 waste materials from the frac trailers and roll-off containers and off-site disposal of these waste materials were initiated by the RAC on July 21, 1994 and concluded on August 16, 1994. The waste stored inside the two frac trailers and the two roll-off containers was removed in accordance with the procedure described in the Removal Action Work Plan (HNUS, 1994b).

The liquid portion of the waste was aspirated from the frac trailers and roll-off containers into a PCB-dedicated vacuum trailer that was also used to ship the waste for off-site incineration and disposal at the Aptus facility located in Aragonite, Utah. A total of seven vacuum trailer loads were removed from the frac trailers and roll-off containers and shipped to Aptus.

The solid portion of the waste was consolidated into one of the two roll-off containers and shipped in that container for off-site incineration and disposal to the Aptus facility. The empty roll-off container was then returned to the site for decontamination.

Each waste load was weighed on site prior to departure and again upon arrival at the Aptus facility. A Uniform Hazardous Waste Manifest and Notification of Waste Subject to Land Disposal Restriction were prepared for each waste shipment.

Following waste removal, the inside surfaces of the frac trailers and roll-off containers were decontaminated, and wipe samples were collected for verification purposes from inside surfaces. The trailers and containers were decontaminated repeatedly until the PCB concentrations from the wipe samples were less than the required 10 µg per 100 cm^2. The Post Removal Action Report (HNUS, 1994b) presents the results of the verification sampling and analysis procedures performed by HNUS to verify that clean-up standards were met for the decontamination of the containers used for the temporary on-site storage of the PCB-contaminated sludge removed from OT-5.

After the contents of OT-5 were removed, the tank was cleaned and the top of the tank was crushed. The tank was closed in place by filling it with inert material. No further RA is necessary for soil to ensure protection of human health and the environment at Site 9. The removal action eliminated the need to conduct additional RA. The status of this site is considered to be RC. A summary of findings for Site 9 is included as Table 2-10.

Site 9 is located within the Fuel Farm (Site 23). The groundwater at Site 23 was investigated under CERCLA during the BGOURI (TtNUS, 2002a). Further discussion of the groundwater results for Site 23 is provided in Section 2.1.21.

2.1.9 Site 10 - Lower Subase-Fuel Storage Tanks and Tank 54-H

Six former USTs, including Tank 54-H, are located at the Lower Subase at the corner of Corvina Road and Amber Jack Road. The site map is included as Figure 8-12. The location of Site 10 in relation to the other IR sites is shown on Figure 8-2.

Concrete USTs E, F, and G each had 125,000-gallon capacities and were used to store diesel fuel from 1942 to 1987. Concrete USTs K and L each had 25,000-gallon capacities and were used to store lubrication and hydraulic oil from 1954 to 1989. Tank 54-H had a 30,000-gallon capacity and was used as a reclamation tank for the other five tanks. Tanks E, F, and G have been decommissioned, and new steel tanks have been installed within the concrete shells of Tanks K and L (EPA, 1995). Tank 54-H has also been decommissioned.

The IAS concluded that there was some measurable leakage from the tanks at Site 10 and recommended monitoring of the tank levels to see if the tanks were leaking (Envirodyne, 1983).

In 1989, Fuss & O'Neill conducted a hydrogeologic investigation of two UST areas at NSB-NLON, one at the Tank Farm located southeast of the Lower Subase and the other in the Lower Subase (i.e., Site 10). The study was initiated as a result of subsurface soil contamination encountered during construction

activities in the two areas. At Site 10, four monitoring wells (FOMW-13 through 16) were installed around Tank 54-H. Soil samples were collected from each well and field screened with an organic vapor analyzer (OVA). Groundwater samples from each of the monitoring wells were analyzed by a laboratory for volatile aromatic hydrocarbons and scanned for petroleum products.

No. 2 fuel oil was detected in monitoring wells at Tank 54-H at concentrations ranging from 21 to 1,100 milligrams per liter (mg/L). In addition, low concentrations (less than 15 µg/L) of benzene and xylenes were detected in FOMW13. Fuss & O'Neill concluded that petroleum contamination had impacted groundwater in the area.

Sites 10 and 11 were evaluated collectively as Zone 1 in the Phase II RI (B&RE, 1997b) and Lower Subase RI (TtNUS, 1999b). The Thames River adjacent to Zone 1 was also investigated during the Phase II RI and Lower Subase RI. Because of this approach, the remainder of this section only discusses information in terms of Zone 1.

The investigation found that significant amounts of petroleum contamination (No. 2 fuel oil and waste lubricating oils) remain in the soil of Zone 1; however, the historical sources of petroleum contamination have been eliminated. Petroleum and lead contamination were also identified in the groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media under current and future scenarios. The ERA for the Thames River (sediment and surface water) adjacent to Zone 1 showed that the risks to ecological receptors are currently minor.

The Lower Subase RI Report (TtNUS, 1999b) recommended that Zone 1 proceed to an FS for evaluation of appropriate remedial alternatives for soil and limited actions for groundwater. Because of the extensive amount of underground utilities in Zone 1 and the nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone evaluate, to the extent possible, passive and/or in-situ remedial alternatives and the use of institutional controls. In addition, it was suggested that “hot spot” removal actions, in lieu of full-scale excavation, should be evaluated in the Zone 1 FS. It was also recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 1, in conjunction with the soil remedial alternatives. The scenarios evaluated for the groundwater should include free-phase product removal from monitoring well 13MW18 and a monitored natural attenuation/tiered groundwater monitoring program. The scenario for the storm sewer system should include cleaning and repair of the system.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Two Zone 1 catch basins were cleaned by Fleet Environmental using a vacuum truck. The material removed from

the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort. A summary of findings for Site 10 is included as Table 2-11.

An FS is currently being prepared for Zone 1 soil and groundwater. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 1 will be selected by the Navy, EPA, and CTDEP.

2.1.10 Site 11 - Lower Subase - Power Plant Oil Tanks

Site 11 consists of four former underground tanks (A, B, C, and D) located immediately east of Building 29. The site map is included as Figure 8-12. The location of Site 11 in relation to the other IR sites is shown on Figure 8-2. Concrete tanks A and B each had a capacity of 170,000 gallons and were used to store No. 6 grade fuel oil that was pumped from the Tank Farm located at the southern end of NSB-NLON. Concrete tanks C and D each had a capacity of 170,000 gallons. Tank C was used to store diesel oil, and Tank D was used to store waste oil generated by the bilge water oil recovery system at the power plant. The tanks were installed during World War II and were decommissioned in the mid-1980s. The old concrete tanks were repaired and are now used as containment structures for three new, 150,000-gallon steel tanks.

According to the IAS, there was leakage from the tanks and migration of petroleum to the groundwater, the steam and fuel pipeline tunnels, and the underground vaults. The IAS recommended replacing the tanks at Site 11 and implementing oil recovery (Envirodyne, 1982).

In 1987, Wehran Engineering Corporation completed a Final Site Investigation for subsurface oil contamination and identified an area within Site 11 that was contaminated with heavy oil. This area, comprised of electrical conduits and manholes along Corvina Road, contained a mixture of No. 5 and No. 6 fuel oils. Wehran recommended that further review of the operation and distribution of oil in Building 29 be conducted (Wehran, 1987).

Sites 10 and 11 were evaluated collectively as Zone 1 in the Phase II RI (B&RE, 1997b) and Lower Subase RI (TtNUS, 1999b). The Thames River adjacent to Zone 1 was also investigated during the Phase II RI and Lower Subase RI. Because of this approach, the remainder of this section only discusses information in terms of Zone 1.

The investigation found that significant amounts of petroleum contamination (No. 2 fuel oil and waste lubricating oils) remain in the soil of Zone 1; however, the historical sources of petroleum contamination have been eliminated. Petroleum and lead contamination were also identified in the groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media under

current and future scenarios. The ERA for the Thames River (sediment and surface water) adjacent to Zone 1 showed that the risks to ecological receptors are currently minor.

The Lower Subase RI Report (TtNUS, 1999b) recommended that Zone 1 proceed to an FS for evaluation of appropriate remedial alternatives for soil and limited actions for groundwater. Because of the extensive amount of underground utilities in Zone 1 and the nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone evaluate, to the extent possible, passive and/or in-situ remedial alternatives and the use of institutional controls. In addition, it was suggested that "hot spot" removal actions, in lieu of full-scale excavation, should be evaluated in the Zone 1 FS. It is also recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 1, in conjunction with the soil remedial alternatives. The scenarios evaluated for the groundwater should include free-phase product removal from monitoring well 13MW18 and a monitored natural attenuation/tiered groundwater monitoring program. The scenario for the storm sewer system should include cleaning and repair of the system.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Two Zone 1 catch basins were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS is currently being prepared for Zone 1 soil and groundwater. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 1 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 11 is included as Table 2-12.

2.1.11 Site 13 - Lower Subase-Building 79 Waste Oil Pit

Site 13 consists of the waste oil pit located in the northwestern corner of Building 79 on the Lower Subase. The site map is included as Figure 8-13. Figure 8-2 shows the location of the site relevant to the other IR sites at NSB-NLON. The pit was formerly used as a collection area for waste oil and solvents that were generated during the cleaning and servicing of diesel train engines. The pit has been filled with concrete (Wehran, 1987), and a recovery well system was installed sometime around 1985. The system operated for a period of several months but was determined to be ineffective and was later abandoned.

Analytical results from soil samples collected from borings in the area of the waste oil pit indicate that subsurface contamination is primarily lubricating/motor oil [Naval Environmental Support Office (NESO), 1979]. The oil was detected at a sample interval of 6 to 9 feet below the ground surface. It is estimated that the saturated volume of contamination is approximately 50 feet by 50 feet by 4 feet deep.

In 1987, Wehran Engineering Corporation completed an investigation to identify and delineate the sources of heavy oils in the subsurface of the Lower Subase (Sites 10, 11, and 13). Manholes and the area underneath the supporting platform in the vicinity of Building 79 (Site 13) contained No. 6 fuel oil older than 1 year and trace levels of waste oils. Wehran recommended removal of the oil from the manholes near Building 79 using absorption pads and/or excavation of oil-laden soil and inspection of fuel lines within the trench and subsequent cleaning of the trench.

During the Phase I RI, a brown, milky oil was identified west of Building 79. The report indicated this oil potentially originated from the former waste pit in Building 79. An old drawing shows the outlet from the waste oil pit 29 feet south of the northern side of Building 79 (Atlantic, 1992).

The Quay Wall Study Area runs from approximately Pier 2 to Pier 6 (see Figure 8-13). An investigation and removal action were completed in this area to address petroleum contamination. The area was man-made and consists of a wooden platform and quay wall constructed in 1940. The wooden platform is 4 inches thick and is supported by 10- to 12-inch-square wooden joists and 8-inch timber pilings. A steel bulkhead along the Thames River was erected in 1952; it was constructed of steel sheet piling and supports. During construction of the bulkhead, the quay wall and wooden platform were covered with approximately 6 to 7 feet of sand and gravel fill, and the area was paved for vehicular access along Albacore Road. The quay wall is located approximately 4 feet east of the steel bulkhead, immediately beneath the paved surface. Fill soil below the wooden platform and quay wall periodically wash out. Void spaces of 3 to 8 feet exist discontinuously beneath the wooden platform. Sand and gravel fill separate the void spaces, and the void spaces are filled with sand poured into a series of manholes along the length of Albacore Road. Natural river deposits of silt and sand underlie the void spaces and sand fill.

Zones of visible petroleum contamination were present in the soil immediately above the wooden platform and in the fill below the wooden platform. Petroleum was found in the area around the storm sewer manhole northeast of Pier 4. Globules of floating product were also present in the standing water in the void spaces below the wooden platform. Releases of petroleum products and oily substances were observed in the Thames River in the vicinity of the storm sewer outfall just north of Pier 4 in November 1994. It was determined that the probable source of the releases was the storm sewer manhole near Pier 4 and Building 79. An expandable rubber plug was placed in the storm sewer outfall in November 1994, and the storm sewer pipe leading to the outfall was filled with sand in late December 1994. These measures appear to have eliminated migration of petroleum product from this outlet because no visible release of petroleum product has been observed in the Thames River near the outlet.

HNUS prepared a Removal Site Evaluation for the quay wall to summarize the removal actions performed in November and December 1994 to remedy petroleum product releases that occurred along the quay

wall of the Lower Subase. Five subsurface soil samples were collected from five of the six borings. Four of the soil samples (QW-2, QW-3, QW-4, and QW-5) were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH. The fifth soil sample (QW-1) was analyzed for Target Compound List (TCL) organics, Target Analyte List (TAL) inorganics plus boron, TPH, and toxicity characteristic leaching procedure (TCLP) metals. Lead was identified as the only COC. Based on current and anticipated land use of the area, direct exposures to lead were not considered likely to occur except during construction activities. Therefore, the Removal Site Evaluation recommended that no further removal action be performed at that time but that further site investigations should focus on lead concentrations. It was estimated that no more than 800 gallons of petroleum were pumped from the void spaces.

A majority of the site is paved or covered with buildings. The site was included in Zone 4 for the Phase II RI and Lower Subase RI. The Thames River adjacent to Zone 4 was also investigated during the Phase II RI and Lower Subase RI. Because of this approach, the remainder of this section only discusses information in terms of Zone 4.

Lead contamination was identified in the shallow and deep soil and groundwater in Zone 4. Widespread TPH contamination was identified in the deep soil at Zone 4. Some petroleum contamination was also evident in the shallow soil and groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media under current and future scenarios. The ERA for the Thames River (sediment and surface water) adjacent to Zone 4 showed that the risks to ecological receptors were low to moderate.

The Lower Subase RI recommended that Zone 4, which includes Site 13 - Building 79 Waste Oil Pit, Site 19 - Solvent Storage Area (Building 316), the Quay Wall Study Area, and the fuel distribution pipeline, proceed to an FS to evaluate appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 4 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone focus, to the extent possible, on evaluation of alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. In addition, it was suggested that the Zone 4 FS consider “hot spot” removal actions in lieu of full-scale excavation. A tiered groundwater monitoring program and cleaning and repair of the Zone 4 storm sewer system was recommended for evaluation during the FS. The RI also recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Seven Zone 4 catch basins were cleaned by Fleet Environmental using a vacuum truck. The material removed

from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS for Zone 4 soil and groundwater was under preparation, but it was put on hold until additional investigation of the Thames River adjacent to Zone 4 was completed to further refine the ERA. The results of the investigation will be used to determine if the Thames River sediment should be included in the FS. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 4 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 13 is included as Table 2-13.

2.1.12 Site 14 - Over Bank Disposal Area-Northeast

The OBDANE site is located in a heavily wooded area on the edge of a ravine north of Stream 3 of the Area A Downstream, west of the Area A Weapons Center, and south of the Torpedo Shops. At one time, miscellaneous wastes were apparently dumped over the bedrock edge. The site is circular and approximately 80 feet in diameter. A dirt road provides limited access to the wooded site. Figure 8-14 shows the general site arrangement. The location of Site 14 in relation to the other IR sites is shown on Figure 8-2. A nearly vertical 20-foot-high bedrock face is located at the eastern edge of the site. The rest of the site slopes to the southwest.

The IAS Report (Envirodyne, 1983) stated that the vegetation at the site indicated that no dumping had occurred within 10 years prior to the 1982 investigation. The IAS report documented the presence of several empty fiber drums. Atlantic personnel inspected the site on September 30, 1988 and verified that the drums were still present. No visual staining or stressed vegetation was observed at this time. No development of this area was planned.

During the Phase I RI (Atlantic, 1992), surface soil samples were collected from within the limits of the identified disposal area. Based on the sample results, the RI concluded that there was negligible risk associated with Site 14 and recommended that a supplemental Step I Investigation be performed. During the Phase II RI (B&RE, 1997b), a single shallow monitoring well was installed downgradient of the site, and two rounds of groundwater samples were collected. Six additional soil samples were also collected within the limits and downgradient of the disposal area. The Phase II RI concluded that all human health risks were within or less than EPA's target range; however, arsenic was found in surface soil samples at concentrations slightly exceeding State standards, and lead contamination was found in surface soil samples approximately 80 feet south of the site. The RI Report recommended that further characterization of the surface soil with respect to arsenic and lead should be completed.

An Action Memorandum for an NTCRA was prepared for Site 14 by the Navy in 1999. Removal and off-site disposal of contaminated soil and debris at the site was the recommended alternative in the Action Memorandum. A work plan for the removal action was prepared, and the removal action was completed in May 2001. A post-removal action report was prepared to document the actions taken during removal action. No significant risks from exposure to the soil remained at site after the NTCRA; therefore, the Navy is in the process of preparing a Proposed Plan and ROD to document an NFA decision for Site 14 soil.

The groundwater at Site 14 was further characterized during the BGOURI (TtNUS, 2002). For the RI, Site 3 and Site 14 were evaluated collectively because Site 14 falls within the boundary of Site 3, and any impacts from Site 14 would be detected in the groundwater beneath Site 3. Twenty-six samples were collected from Site 3 wells, but only one groundwater sample from the single Site 14 well was collected during the BGOURI. Groundwater results for Sites 3 and 14 indicated that the water quality was generally good, with only sporadic, low-concentration detections of VOCs and metals in site monitoring wells. The VOCs were detected exclusively in Site 3 monitoring wells. Seven metals were the only chemicals detected in the Site 14 groundwater sample, and all concentrations were less than background groundwater concentrations. The HHRA determined that risks posed by exposure of construction workers to groundwater at Sites 3 and 14 are within EPA and CTDEP acceptable levels, assuming that the workers are exposed to the maximum observed concentrations of site contaminants. The HHRA also determined that risks posed by exposure of hypothetical future residents to groundwater at Sites 3 and 14 are outside of USEPA and CTDEP acceptable levels, assuming the residents are exposed to the maximum observed concentrations of site contaminants. Arsenic, benzo(a)pyrene, TCE, and vinyl chloride were the major contributors to the ICRs, and thallium was the major contributor to the HIs. All of the chemicals that contributed significantly to the risks were detected in the Site 3 wells. The BGOURI recommended that an FS be prepared to evaluate the groundwater associated with Sites 3 and 14. A summary of findings at Site 14 is included as Table 2-14.

Site 14 groundwater was further evaluated in the BGOURI Update/FS Report (TtNUS, 2004). A supplemental HHRA evaluation was performed with the Site 14 groundwater data collected during the BGOURI, separate from the Site 3 groundwater data. The evaluation indicated that there are no significant risks to potential receptors from exposure to Site 14 groundwater. Based on these results, NFA was recommended for Site 14 groundwater in the BGOURI Update/FS. The Navy is currently preparing a Proposed Plan and ROD to document the NFA decision for Site 14 groundwater.

2.1.13 Site 15 - Spent Acid Storage and Disposal Area

The SASDA was located in the southeastern section of NSB-NLON, between the southern side of Buildings 409 and 410. Figure 8-15 displays the general site arrangement. Figure 8-2 shows the location

of the site relevant to the other IR sites at NSB-NLON. The site consisted of a concrete storage pad and an UST.

According to previous reports (Atlantic, 1994b), the area was used for storage and disposal of discarded batteries. Acid was removed from the battery housings and temporarily stored in a 4- by 4- by 12-foot, rubber-coated, underground tank. The acid was periodically emptied from the tank by a pumper truck and disposed off site. The battery housings were temporarily stored on the adjacent concrete pad. The former tank and the surrounding soils encompassed approximately 1,000 square feet.

All battery acid and housing storage at the site was terminated. According to documentation (Atlantic, 1994b), the acid storage tank was filled with soil and covered by a concrete pad. Future plans for this area included the demolition of Buildings 409 and 410 and the construction of a warehouse.

Site 15 was investigated during the Phase I RI (Atlantic, 1992) and the FFS (Atlantic, 1994b). Soil and groundwater samples were collected and analyzed during the investigations to characterize the site and to determine appropriate remedial alternatives. The results of the RI and FFS suggested that a removal action should be completed to address the tank and associated contamination. An Action Memorandum was prepared, and a TCRA was completed by OHM Remediation Services Corporation (OHM) in January 1995. The tank, 318 tons (200 cubic yards) of lead contaminated soil, contaminated pavement, and the tank contents were removed and disposed off site (OHM, 1995b).

The site was further evaluated during the Phase II RI (B&RE, 1997b). The Phase II RI field investigation included the collection and analysis of soil and groundwater samples from the site. The field investigation was conducted prior to the TCRA, but the only data evaluated during the RI were data associated with sample locations that were not excavated during the TCRA. This approach provided an assessment of post-TCRA conditions at the site. The RI recommended that limited additional sampling be completed to verify that the remaining soil did not contain significant contaminant concentrations that would impact the groundwater beneath the site. The RI also recommended that if the sampling results confirmed that the soil would not impact the groundwater, an NFA decision document should be pursued for soil.

Based on the recommendations of the Phase II RI, the CTDEP completed additional sampling and analysis at the site in 1997. The results of the program showed that remaining concentrations of inorganics in the soil did not present a contaminant migration concern from soil to groundwater. Using these results, the Navy subsequently prepared an NFA Source Control ROD for the site. The ROD was written and signed in September 1997 (Navy, 1997c).

The groundwater associated with this site was further characterized as part of the BGOURI (TtNUS, 2002a). The objective of the RI was to further characterize the nature and extent of groundwater contamination to determine if the TCRA was successful and to quantify the risks to potential human receptors associated with groundwater at the site. Groundwater samples were collected from four existing groundwater monitoring wells, and the results indicated that residual contamination (i.e., metals in soil) from the former SASDA is impacting the groundwater. Because the groundwater at the site was found to be relatively acidic, it was hypothesized that the lead and other metals that were detected in groundwater will be mobile and migrate from the site. The data also indicated that a source of TCE that is unrelated to the site is impacting the Site 15 groundwater. The HHRA results from the BGOURI indicated that Site 15 groundwater does not pose any significant risks to construction workers, but it does pose potential risks to hypothetical human receptors. Carcinogenic risks for future adult residents exposed to Site 15 groundwater were less than or within acceptable risk levels, but noncarcinogenic risks for future adult residents exposed to Site 15 groundwater exceeded the acceptable level of 1.0 under the RME scenario. Although not evaluated in the HHRA, potential risks to future child residents resulting from exposures to groundwater would also be expected to marginally exceed acceptable risk levels. Chromium and silver were the major contributors to the noncarcinogenic risks. The BGOURI recommended that an FS be prepared for Site 15 groundwater to address contaminant migration issues and the potential risks to hypothetical residential users associated with metals.

A DGI was completed at the site in the fall of 2002 to delineate the extent of the remaining source material and confirm the groundwater results from the BGOURI. The results of the DGI were documented in the BGOURI Update/FS Report (TtNUS, 2004). The results the investigation showed that there is no contamination remaining in the soil that is acting as a source of contamination to the groundwater and that there is no significant groundwater contamination at the site. The HHRA and data screening results showed that there are no soil or groundwater COCs for Site 15. Comparison of the Phase II RI and DGI analytical results to the BGOURI results indicate that the BGOURI results were anomalies and were not representative of site conditions. The cause(s) of the anomalies may have been the field sampling methodology and/or laboratory issues. Based on the results of the DGI, it was recommended that the existing NFA ROD for Site 15 soil did not need to be amended and that an NFA decision document should be prepared for Site 15 groundwater. A Proposed Plan and ROD are currently being prepared for the groundwater at Site 15. The status of this site is RC. A summary of findings for Site 15 is included as Table 2-15.

2.1.14 Site 16 - Hospital Incinerator

Site 16 consists of the two former locations where the skid-mounted hospital incinerator was reportedly operated. In the 1980s, the Naval Hospital Groton operated a skid-mounted waste incinerator at two sites adjacent to the base hospital. The two sites (16-A and 16-B) are located west of Tautog Road, adjacent

to Building 449 and Building 452. The site map is included as Figure 8-16. The location of the site relevant to other IR sites is shown on Figure 8-2.

According to the FFA, the incinerator was used to destroy medical records and medical waste contaminated with pathological agents. Ash generated by the waste incinerator was transferred to dumpsters and disposed at the municipal landfill.

Site 16 was evaluated during the IAS (Envirodyne, 1983) for NSB-NLON. No sampling activities were conducted as part of the study. The study's recommendation for this site was that no further investigation was necessary because, at the time of the IAS study, the site was still operational. As a result of this, no investigation of Site 16 was conducted during either the Phase I or the Phase II RIs. The Navy has subsequently ceased operations of the incinerator at the hospital.

The site was investigated during the BGOURI (TtNUS, 2002a) to determine the impact of the operation of the incinerator. The BGOURI focused on soil at Site 16. Surface and subsurface soil samples were collected for analysis during test boring activities. Temporary groundwater monitoring wells were to be installed and sampled during the investigation, but they were not installed because no overburden groundwater was found before shallow bedrock was encountered. The depth to bedrock at Site 16 was found to be less than 3 feet below the ground surface. Additional efforts were not made to investigate the groundwater in the bedrock because of the following factors:

- The source of contamination at Site 16 was a skid-mounted incinerator, and the contaminants at the site (i.e., dioxins/furans, PCBs, and metals) are not typically mobile in the dissolved phase.

- The bedrock (granite) at NSB-NLON is relatively competent and would likely impede vertical contaminant migration. In addition, regional hydrogeologic information suggests that the depth to groundwater in the bedrock is more than 70 feet below the ground surface.

The nature and extent of contamination and HHRA results from the RI indicated that the past operation of the skid-mounted incinerator at Site 16 did not significantly impact the surrounding soil and that the site soils do not pose significant risks to any potential human receptors (i.e., all risks were within acceptable levels). Risks to ecological receptors were not evaluated during this RI because the site does not provide suitable ecological habitat.

In addition to the sampling and analytical program, interviews were conducted during the RI to obtain historical information about the incinerator. Personnel at the Naval Groton Hospital (the Director of Records and the Regional Coordinator) and the NSB-NLON Public Works Department were contacted

regarding this issue. None of the personnel knew of any historical information about the incinerator or could provide any insight into its operation.

The results of the RI did not indicate that subsequent rounds of investigation were necessary to further characterize the site or that an FS was necessary for this site. The RI recommended that an NFA decision document be prepared for this site. A Proposed Plan and ROD for Site 16 soil are currently being prepared. A summary of findings for Site 16 is included as Table 2-16.

2.1.15 Site 17 - Lower Subase-Hazardous Materials/Solvent Storage Area (Building 31)

Building 31 was constructed in 1917 and was originally used as a battery shop until the mid-1950s. The site map is included as Figure 8-17. The location of Site 17 relative to other IR sites is shown on Figure 8-2. Battery overhaul was one of the largest operations conducted at the Subase prior to use of nuclear power for the submarines. Old diesel submarines containing approximately 100 batteries were routinely serviced in the Battery Overhaul Shop at Building 31. Services ranged from charging batteries to complete battery overhaul. Spent acid from the overhauled batteries was disposed in a spent acid tank located at Site 15 (Envirodyne, 1983).

After World War II, the building was converted to a storage facility for hazardous materials. Building 31 has been used as the main hazardous/flammable materials warehouse for the base since the 1970s. Items such as sulfuric acid, methyl isobutyl ketone, potassium hydroxide, potassium tetraborate, hydrofluoric acid, and nitric acid were stored in containers of up to 55-gallon capacity. In 1992, while the concrete floor of the building was being replaced to comply with RCRA regulations, a yellow discoloration was discovered in the soil beneath the floor slab. Analysis of soil samples revealed elevated levels of lead. As a result, an Action Memorandum was prepared (HNUS, 1993) to document the need to remediate lead-contaminated soil to a depth of 1 foot below the water table. The TCRA was completed in 1995 (HNUS, 1995a). Figure 8-18 shows the cells within Building 31 that were remediated. Some contaminated soil was left in place in the areas between Building 31 and the Thames River front because its removal would have interfered too much with Subase traffic.

During subsequent investigations, Site 17 has been included in Zone 3 of the Lower Subase, which extends from Capelin Road along the southern end of Zone 2 to the southern side of Bullhead Road. Zone 3 includes Site 17, fuel oil distribution lines, and steam, condensate, and electrical ducts. The Providence and Worcester Railroad borders the eastern edge of Zone 3, and the Thames River lies to the west of it. Because of this approach, the remainder of this section only discusses information in terms of Zone 3.

Fuel oil distribution lines and utility ducts and trenches run through Zone 3. In 1996, pressure leak testing was performed on the lines and valves in the fuel distribution system within Zone 3. All sections of the line and various valves tested in the portion of the distribution system within Zone 3 passed the pressure testing procedures.

The results of the Lower Subase RI (TtNUS, 1999b) indicated that lead is still a concern in the soil and groundwater at this site and that petroleum compounds are also of concern in the soil. The Lower Subase RI recommended that Zone 3 proceed to an FS. Because of the extensive amount of underground utilities in Zone 3 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone focus on the evaluation of alternatives that rely on institutional controls to limit exposure to contaminated soil and a tiered groundwater monitoring program to verify that significant contaminant migration is not occurring. It was also recommended that "hot spot" removal actions for the lead contamination and cleaning and repair of the Zone 3 storm sewer system should be evaluated during the FS. The ERA for the Thames River adjacent to Zone 3 showed that the risks to ecological receptors in the sediment adjacent to Zone 3 are relatively low and that lead is not a significant threat to the ecological receptors. In addition, the Thames River provides significant dilution and mixing, which minimizes the impact of any contaminant migration from Zone 3.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Two catch basins in Zone 3 were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS is currently being prepared for Zone 3 soil and groundwater. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 3 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 17 is included as Table 2-17.

2.1.16 Site 18 - Solvent Storage Area (Building 33)

Site 18 consists of Building 33, which is located east of Grayback Avenue. The site map is included as Figure 8-19. Several 55-gallon drums containing solvents such as TCE and dichloroethene and some gas cylinders were stored in Building 33 (EPA, 1995). The solvent storage area was identified during the IAS (Envirodyne, 1983) for NSB-NLON. The site was identified as Study Area F in the FFA and is now identified as IR Program Site 18. The location of Site 18 relative to other IR sites is shown on Figure 8-2.

No sampling activities were conducted at Site 18 prior to the BGOURI (TtNUS, 2002a). During the BGOURI, both soil and groundwater samples were collected at Site 18 to characterize the site. One

objective of the RI was to perform an initial characterization of the nature and extent of contamination at the site because no sampling or analytical programs had been completed at the site in the past. Another objective of the RI was to quantify the risks to human receptors associated with the site. Ecological risks associated with the site were not evaluated because a majority of the site consists of a building and paved parking lot, which do not represent viable habitat.

During the RI, both surface and subsurface soil samples were collected and analyzed. Three temporary groundwater monitoring wells were installed; however, only two were sampled during the RI because one well was dry. The nature and extent of contamination and HHRA results from the RI indicated that past storage of solvents at Building 33 did not significantly impact the surrounding media and that the site does not pose significant risks to any potential human receptors. No significant concentrations of contaminants were detected in the groundwater at Site 18. All carcinogenic risks from exposure to soil at Site 18 were less than or within acceptable risk levels, and all noncarcinogenic risks were less than the acceptable level of 1.0.

The results of the BGOURI did not indicate that subsequent rounds of investigation were necessary to further characterize this site. In addition, the results did not suggest that an FS was necessary for the site. Therefore, the RI recommended that an NFA Decision Document be prepared for this site. Separate Proposed Plans and RODs for Site 18 soil and groundwater, respectively, are currently being prepared to document the NFA decisions. A summary of findings for Site 18 is included as Table 2-18.

2.1.17 Site 19 - Lower Subase-Solvent Storage Area (Building 316)

Site 19 – Solvent Storage Area Building 316, is located in the Lower Subase, west of Pier 2. The site map is included as Figure 8-13. The location of Site 19 relative to other IR sites is shown on Figure 8-2. Several 5-gallon cans containing methyl ethyl ketone were stored in Building 316 (EPA, 1995). Solvents are no longer stored in this facility.

Soil and groundwater sampling and analysis were conducted at this site during the Lower Subase RI (TtNUS, 1999b). This site was included in Zone 4, which includes Site 13 - Building 79 Waste Oil Pit, Site 19 - Solvent Storage Area (Building 316), the Quay Wall Study Area, and the fuel distribution pipeline, during the Lower Subase RI. Because of this approach, the remainder of this section only discusses information in terms of Zone 4.

Lead contamination was identified in the shallow and deep soil and groundwater in Zone 4. Widespread TPH contamination was identified in the deep soil at Zone 4. Some petroleum contamination was also evident in the shallow soil and groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media under current and future scenarios. The ERA for the Thames

River (sediment and surface water) adjacent to Zone 4 showed that the risks to ecological receptors were low to moderate.

The Lower Subase RI recommended that Zone 4 proceed to an FS to evaluate appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 4 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone focus, to the extent possible, on evaluation of alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. In addition, it was suggested that the Zone 4 FS consider "hot spot" removal actions in lieu of full-scale excavation. A tiered groundwater monitoring program and cleaning and repair of the Zone 4 storm sewer system was recommended for evaluation during the FS. The RI also recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Seven Zone 4 catch basins were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS for Zone 4 soil and groundwater was under preparation, but it was put on hold until additional investigation of the Thames River adjacent to Zone 4 was completed to further refine the ERA. The results of the investigation will be used to determine if the Thames River sediment should be included in the FS. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 4 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 19 is included as Table 2-19.

2.1.18 Site 20 - Area A Weapons Center

Site 20 is the Area A Weapons Center, which is located north of the terminus of Triton Road, adjacent to the Area A Wetland. The site map is included as Figure 8-20. The site's location relative to other IR sites is shown on Figure 8-2. The site includes Building 524 and the northern and southern weapons storage areas. Building 524 is used for administration, minor torpedo assembly, and storage of simulator torpedoes (B&RE, 1997b). No weapons production takes place in this building. Chemicals and chemical wastes, including cleaning and lubricating compounds, paints, adhesives, and liquid fuels, were stored in 1-gallon to 5-gallon containers in seven metal storage cabinets located on a paved area south of the building. Many of these materials are classified as corrosive or flammable. Building 524 was constructed in 1990 and 1991. Prior to construction, the area was primarily woodlands. Portions of the site were blasted to remove bedrock during construction.

The northern and southern weapons storage bunkers are located southeast of Building 524. The southern bunkers are first evident in photographs from 1969, and the northern area bunker is evident in photographs from 1974. Weapons containing liquid fuels such as Otto fuel, JP-10, and TH-Dimer (jet rocket fuel), are stored in these bunkers. Routine maintenance and security improvements planned for the Area A Weapons Center include grouting and waterproofing of bunkers, repaving of roads, regrading, and culvert installation.

This site was investigated during the Phase II RI (B&RE, 1997b). It was found that minimal contamination of surface water and groundwater exists and that the potential for substantial contaminant transport is low. Therefore, limited action was recommended for this site in the Phase II RI. Although Building 524 is part of Site 20, RA in this area is not expected because no impacted soil or sediment has been identified.

A ROD was signed for the soil and sediment OU associated with Site 20 in June 2000. A small (less than 200 cubic yards) RA was conducted at the site in 2001 to address PAH and arsenic contamination in the soil and sediment. The action was intended to mitigate direct exposures to soil and sediment and involved the excavation of soil and sediment with contaminant concentrations exceeding cleanup levels. Confirmatory soil and sediment samples were collected from the bottom and sidewalls of the excavation. Following verification of contaminated soil removal, the excavations were backfilled with clean soil, the drainage swales were regraded, and the disturbed asphalt was replaced. Because the RA took place at Site 20, the site status is RC.

The groundwater at Site 20 was further characterized during the BGOURI (TtNUS, 2002a). The objective of the investigation was to further characterize the nature and extent of groundwater contamination and to quantify the risks to human receptors from the groundwater. In general, organic and inorganic contaminants were detected infrequently and at low concentrations in the groundwater at Site 20. TCE and benzo(a)pyrene were the only organic contaminants identified as significant contaminants in the groundwater. Metals detected at significant concentrations in the groundwater included antimony, arsenic, nickel, silver, thallium, and zinc. High levels of total suspended solids and total dissolved solids in one sample may be the reason for the elevated concentrations of two of the metals. All the organic and inorganic contaminants were identified in samples from overburden monitoring wells.

The HHRA determined that risks posed by exposure of construction workers to the maximum observed concentrations of site contaminants in groundwater at Site 20 are less than acceptable levels. The HHRA also evaluated future residential groundwater usage, and calculated risks were greater than acceptable levels based on exposure to maximum contaminant concentrations. Even though contaminant

concentrations were generally low and risks were acceptable under the current land use scenario, the RI recommended that an FS be prepared for the groundwater associated with Site 20.

Prior to proceeding to an FS for the groundwater, a DGI was conducted at Site 20 to confirm the groundwater results of the BGOURI. The results of the DGI were presented in the BGOURI Update/FS (TtNUS, 2004). During the DGI, groundwater samples were collected from the two monitoring wells in which high silver concentrations were detected during the BGOURI. The groundwater samples were analyzed for total and dissolved TAL inorganics. Silver was not detected at concentrations greater than the detection limit (4.8 µg/L) in either well during the DGI. These results indicate that the silver concentrations detected during the BGOURI were anomalies because they were not detected during the Phase II RI or the DGI. Further data and risk evaluations were also conducted during the BGOURI Update. The results of the evaluations showed that there is no significant contamination in Site 20 groundwater and that there are no significant risks to human health associated with exposure to Site 20 groundwater. The BGOURI Update recommended that an FS not be prepared for Site 20 groundwater and that an NFA decision document be prepared for the groundwater. A Proposed Plan and ROD are currently being prepared to document the NFA decision for Site 20 groundwater. A summary of findings for Site 20 is included as Table 2-20.

2.1.19 Site 21 - Lower Subase-Berth 16

Site 21, Berth 16, is located at the Lower Subase along the Thames River at the intersection of Amberjack Road and Albacore Road. The site map is included as Figure 8-21. The location of the site relative to other IR sites is shown on Figure 8-2. The following structures are currently included in Berth 16 (Atlantic, 1995a):

Building	Original Use	Current Use
103	Instruction	Instruction
173	Substation	Electrical distribution
106	Photolab and electronics	Storage
157	Periscope Shop	Optical Shop
456,478	Maintenance Shop	Maintenance Shop

Berth 16 formerly included a refuse/classified materials incinerator, an underground, 250-gallon, diesel fuel storage tank, and an underground, diesel-fuel transfer line (Atlantic, 1995a). The incinerator was located at the current site of Building 478. The incinerator has been separated from Site 21 and is now designated as Site 25. The UST was located adjacent to the northern wall of Building 157, and the underground fuel line extended along Pier 51, east of Building 173. All these items have been decommissioned.

The area was investigated during the Pier 33 and Berth 16/Former Incinerator Site Investigation (Atlantic, 1995a) and the Lower Subase RI (TtNUS, 1999b). A geotechnical investigation for the replacement of the quay wall was also conducted at the site in 1989. The results of the geotechnical investigation were presented in the Site Investigation Report.

During the geotechnical investigation, a soil sample was collected and analyzed for metals, VOCs, TPH, oil type by fluorescence, pesticides, and PCBs, and a groundwater sample was collected and analyzed for VOCs. No. 2 fuel oil was detected in subsurface soils in front of Building 175 during the investigation. Petroleum contamination was also evident based on odor and visual inspection.

Following discovery of the petroleum contamination, the site was added to the IR Program. Atlantic conducted a Site Investigation at the site to determine the presence and magnitude of specific contaminants and to determine if the results warranted an RI/FS. The field investigation consisted of a soil gas survey, a utility-manhole inspection, soil boring installation, monitoring well installation, and soil, groundwater, and sediment sampling and analysis. Petroleum and metal contamination was identified during the Site Inspection.

Prior to proceeding to the Lower Subase RI, available data were collected and reviewed to identify data gaps that needed to be filled during the RI. As a result of the review, further investigation of soil and groundwater containing petroleum constituents, contamination in storm sewer catch basins, extent of ash disposal in the vicinity of 20MW6, and any soils containing TCLP lead levels greater than 150 µg/L were recommended. Also, testing of any UST and piping not recently tested was recommended to eliminate the possibility of an ongoing petroleum source. Additional investigation of site operations and sediment analysis of the storm sewer system were also recommended to determine the extent and source of sediment contamination. Removal and disposal of contaminated sediments and modification of any site operations identified as a contributor to the contaminated sediment were also recommended.

Soil, groundwater, and sediment sampling (in the adjacent Thames River) and analysis were conducted at this site in conjunction with the Lower Subase RI (TtNUS, 1999b). Sites 21 and 25 were evaluated collectively as Zone 7 during the Lower Subase RI. Because of this approach, the remainder of this section only discusses information in terms of Zone 7.

A large area of lead contamination was identified in the shallow and deep soil in Zone 7. TPH contamination was also identified in two general areas. Little organic contamination was identified in the groundwater; however, two areas of lead contamination were identified in Zone 7 groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media. The ERA for the Thames River (sediment and surface water) adjacent to Zone 7 showed that the risks to

ecological receptors were low to moderate. The evaluation indicated that there were potential risks to sediment-dwelling organisms from contaminants near Pier 17 but not near Pier 15. However, most of the sediment near Piers 15 and 17 was subsequently dredged making interpretation of the results from historical studies difficult.

The Lower Subase RI Report (TtNUS, 1999b) recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The RI also recommended that Zone 7 soil and groundwater proceed to an FS for evaluation of appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 7 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone focus, to the extent possible, on alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. "Hot spot" removal actions for the lead contamination were also recommended for evaluation during the FS. In addition, it was recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 7 in conjunction with the soil remedial alternatives. A tiered groundwater monitoring program was recommended for evaluation during the FS.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Five catch basins in Zone 7 were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS for Zone 7 soil and groundwater was under preparation, but it was put on hold until additional investigation of the Thames River adjacent to Zone 7 was completed to further refine the ERA. The results of the investigation will be used to determine if the Thames River sediment should be included in the FS. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 7 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 21 is included as Table 2-21.

2.1.20 Site 22 - Lower Subase - Pier 33

Site 22 is located at the Lower Subase along the Thames River and includes Pier 33, Building 175, and approximately 800 feet of property in the area of Pier 33, Building 175, and Amberjack Road. The site map is included as Figure 8-22. The site's location relative to other IR sites is shown on Figure 8-2.

Building 175 was originally used to house several above-ground battery acid storage tanks (Atlantic, 1995a). The building was completely filled with large above-ground storage tanks. Transfer lines from the battery acid storage tanks extended along Amberjack Road in trenches to the piers. These storage tanks and the

associated transfer piping have been removed. There are no known or reported spills from the storage tanks or transfer system. Building 175 is currently used for miscellaneous storage and administrative purposes. No underground steam or fuel-oil utilities service Building 175.

A 1,000-gallon, underground fuel storage tank was located adjacent to the southern side of Building 175. The age and type of the tank are unknown. Based on a tank test performed on May 22, 1990, no leakage was identified. Stained soil was observed around the fill pipe of the UST, and concentrations of TPH detected in shallow and deep soil samples collected in the vicinity of the UST exceeded State and federal criteria (Atlantic, 1995a). This information indicated that the UST was the source of the TPH contamination; this tank has since been excavated, removed, and replaced by a new 1,000-gallon UST. A 250-gallon, underground diesel fuel storage tank is located adjacent to the northern side of Building 175. This tank services an emergency generator for the sewage lift station. The age and type of this tank are unknown.

Zone 5 consists of Site 22. The area was investigated during the Pier 33 and Berth 16/Former Incinerator Site Investigation (Atlantic, 1995a) and the Lower Subase RI (TtNUS, 1999b). A geotechnical investigation for the replacement of the quay wall was also conducted at the site in 1989. The results of the geotechnical investigation were presented in the Site Investigation Report.

During the geotechnical investigation, soil samples were collected and analyzed for metals, VOCs, TPH, oil type by fluorescence, pesticides, and PCBs. No. 2 fuel oil was detected in subsurface soils in front of Building 175 during the investigation. Petroleum contamination was also evident based on odor and visual inspection.

Following discovery of the petroleum contamination, the site was added to the IR Program. Atlantic conducted a Site Investigation at the site to determine the presence and magnitude of specific contaminants and to determine if the results warranted an RI/FS. The field investigation consisted of a soil gas survey, a utility-manhole inspection, soil boring installation, monitoring well installation, and soil, groundwater, and sediment sampling and analysis.

Prior to proceeding to the Lower Subase RI, available data were collected and reviewed to identify data gaps that needed to be filled during the RI. It was recommended that additional investigation of the stained soil at the southwestern corner of Building 175, metal contaminants in storm sewer drains, and any TCLP lead levels greater than 150 µg/L be completed during the RI. Additional investigation of site operations and sediment analysis of the storm sewer system were also recommended to determine the extent and source of sediment contamination. Removal and disposal of contaminated sediment and

modification of any site operations identified as a contributor to the contaminated sediment were also recommended.

Additional soil, groundwater, and sediment sampling (in the adjacent Thames River) were conducted at this zone in conjunction with the Lower Subase RI. Petroleum compounds and lead were identified as the primary COCs for this site. The petroleum contamination appears to be from an UST formerly located at the site. The lead contamination, detected in the sediment collected from a catch basin between Zones 5 and 6, appears to be related to the storage of lead ballast in this area and to surface water runoff. The HHRA showed that there are potential risks from exposure to site media under a hypothetical future residential scenario. The ERA for the Thames River adjacent to Zone 5 showed that the risks to ecological receptors in this area are relatively low.

The Lower Subase RI Report (TtNUS, 1999b) recommended that Zone 5 proceed to an FS to evaluate appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 5 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended that the FS for this zone focus, to the extent possible, on alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. It was also recommended that a “hot spot” removal action for the petroleum contamination in the soil of Zone 5 should be included in one of the alternatives evaluated during the FS. It was also recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 5, in conjunction with the soil remedial alternatives. The scenario for the groundwater should include a combination of monitored natural attenuation and a tiered groundwater monitoring program.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Two catch basins in Zone 5 were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS is currently being prepared for Zone 5 soil and groundwater. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 5 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 22 is included as Table 2-22.

2.1.21 Site 23 - Fuel Farm

In the early 1940s, Crystal Lake was drained and dredged to allow for construction of the nine concrete USTs (see Figure 8-23). When construction was complete, the former lake bed was reportedly filled with soils excavated from a small hill west of the Site 23 and graded to create a level surface for development

at NSB-NLON. The location of Site 23 relative to the other IR sites is shown on Figure 8-2. The Fuel Farm features include the following:

- Nine former 110-foot-diameter, 11-foot-high USTs (OT-1 to OT-9)
- A 30,000-gallon, double-walled UST (OT-10)
- An oil/water separator (at OT-10)
- A 10,000-gallon waste oil tank (at OT-10)
- A fuel oil loading area adjacent to Building 482
- A tanker truck dumping pad and trough (at OT-10)
- Associated UST piping systems
- The Morale, Welfare, and Recreation (MWR) Center (Building 461)
- Buildings 310, 322, and O-831
- Six baseball/softball fields
- A restroom facility (Building 445)
- An air sparging /soil vapor extraction (AS/SVE) facility for the Navel Exchange (NEX) service station
- Two 150,000-gallon diesel above-ground storage tanks
- Six baseball/recreational fields and a number of parking areas are located on top of the Fuel Farm.

Each of the nine former USTs had a holding capacity of 750,000 gallons and was approximately 110 feet in diameter and 11 feet in depth. Tank stability was obtained using a combination of a site-wide drainage system, a series of columns inside the tanks, and an underdrain system. A site-wide stormwater drainage/dewatering system and french drains were installed around OT-1, OT-2, OT-3, OT-4, and OT-5. A series of 37 columns transmitted the weight of the tank roof and overlying fill to the floor of the tank.

The Fuel Farm originally contained an extensive drainage system consisting of numerous catch basins, corrugated metal pipe, perforated corrugated metal pipe, vitrified clay pipe, and reinforced concrete pipe. According to NSB-NLON personnel, the drainage system served approximately one-third of the entire facility. Portions of the drainage system were installed with perforated corrugated metal pipe to depress the water table in the Fuel Farm. The surface water and groundwater collected by the storm sewer system ultimately discharge to a boomed area of the Thames River, adjacent to the Goss Cove Landfill. Based on known elevations of storm sewer catch basins, the elevation of the drainage system was below the process piping.

No. 6 fuel oil was stored in tanks OT-1 through OT-3 from the date of construction until they were removed from service in the summer of 1991. Tanks OT-7 through OT-9 were decommissioned in the summer of 1990 and were used exclusively for storage of diesel during all 48 years of service. Product (No. 6 fuel oil or diesel fuel) was historically delivered via barge to a pier, where it was pumped via

pipelines to the Fuel Farm USTs through the Building 332 valve house. Product was transferred via pipeline from the USTs to the power plant or the submarines at the Lower Subase on an as-needed basis. The No. 6 fuel oil transfer lines were situated within concrete-lined trenches but were removed because No. 6 fuel oil was no longer used at NSB-NLON. The trenches for the diesel lines were not lined.

A reduced demand for diesel fuel at NSB-NLON in the mid-1970s led to the decommissioning and demolition of tank OT-6. This reduced demand also led to the modification of tank OT-5 for waste oil storage purposes. Tank OT-4 was used to store tank bottom wastes from OT-1. Tank OT-5 was used as part of an oil/water separator system. Tanks OT-4 and OT-5 were reportedly decommissioned after the installation of a new 30,000-gallon waste oil underground tank (OT-10) in 1990. Tanks OT-1 through OT-9 have been demolished and closed in place. Tank closure was accomplished following RCRA closure requirements by cleaning the tanks, demolishing the tank roof supports, and allowing the roof to collapse into the tank. The void was then filled with gravel, and the site was restored using soil and topsoil.

A number of petroleum releases were documented by the Navy in the vicinity of the Fuel Farm at NSB-NLON. Investigations of the Fuel Farm conducted from 1989 through 1999 detected evidence of releases of petroleum products from these tanks and their associated piping and, possibly, from other nearby sources. Both soil contamination and free-product were identified at Site 23 during the investigations. Petroleum hydrocarbons have been detected periodically at the outfall of the Fuel Farm storm sewer system.

RAs were conducted to address free product and soil contamination at Site 23 in 1997. The actions were conducted in accordance with the Corrective Action Plan contained in the Site Investigation Report (B&RE, 1997i). Approximately 783 tons of petroleum-impacted soil were removed from Site 23 near OT-8 and Tang Avenue during the removal actions.

The Fuel Farm drainage system was rehabilitated in 2000. The original combined groundwater and stormwater system was separated into a deep groundwater system and a new shallow stormwater system. The old deteriorated pipes in the groundwater collection system were slip-lined to improve their integrity and conductance. The old tank ring-drains (french drains) were not rehabilitated but their connection with the groundwater collection system was maintained. As part of the drainage system rehabilitation project, contaminated soil and free product were also remediated. Contaminated soil and free product, which were previously identified during the Tank Farm Site Investigation Addendum (TtNUS, 1999d) in the vicinity of the former UST OT-3, were removed and disposed off site. The Navy initiated a sampling program for the deep groundwater collection system after construction activities were completed. It was anticipated that the results would be used to determine if further action is required for groundwater.

Site 23 was further characterized during the BGOURI in 2000 (TtNUS, 2002a). Groundwater samples were collected from monitoring wells completed in the overburden and bedrock aquifers. Soil samples were collected to characterize the hydrogeologic properties of the overburden aquifer. VOCs and SVOCs were detected infrequently in the groundwater samples collected during the BGOURI. Metals were detected frequently in the groundwater samples, but the detections are likely related to the fill material used to construct the Fuel Farm. The HHRA did not identify any significant risks to receptors from exposure to groundwater. The RI recommended postponing any decisions on the groundwater at Site 23 until a sufficient amount of data was available from the groundwater collection system monitoring program to properly characterize the groundwater. The completion date of the monitoring program has not been determined. A summary of findings for Site 23 is included as Table 2-23.

2.1.22 Site 24 - Lower Subase-Central Paint Accumulation Area (Building 174)

Site 24 - Central Paint Accumulation Area (Building 174) is located in the northern section of the Lower Subase along the Thames River, immediately east of Pier 32. The site map is included as Figure 8-24. The location of Site 24 relative to other IR sites is shown on Figure 8-2.

In 1982, Building 174 was refitted to allow boat anchor sandblasting and painting activities (EPA, 1995). Also in the late 1980s, the building was used as the primary paint storage facility for all paints used for boat maintenance activities.

No investigations of the soil or groundwater at this site were conducted prior to the Lower Subase RI. Soil, groundwater, and sediment sampling (in the adjacent Thames River) were conducted at this site in conjunction with the Lower Subase RI (TtNUS, 1999b). For investigation purposes, Site 24 and the surrounding area were identified as Zone 6. Because of this approach, the remainder of this section only discusses information in terms of Zone 6.

Petroleum compounds (TPH and PAHs) and several inorganics were identified as COCs for this zone. The source of the TPH and PAHs is not known. The lead contamination, detected in the sediment collected from a catch basin between Zones 5 and 6, appears to be related to the storage of lead ballast in this area and to surface water runoff. The HHRA showed that there are potential risks from exposure to site media under a hypothetical future residential scenario. The ERA for the Thames River adjacent to Zone 6 showed that the risks to ecological receptors in this area are relatively low.

The Lower Subase RI Report (TtNUS, 1999b) recommended that Zone 6 proceed to an FS to evaluate appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 6 and the sensitive nature of the activities conducted at this location (i.e., national security), it was

recommended that the FS for this zone focus, to the extent possible, on alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. It was also recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 6, in conjunction with the soil remedial alternatives. A tiered groundwater monitoring program was also recommended for evaluation during the FS.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Two catch basins in Zone 6 were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS is currently being prepared for Zone 6 soil and groundwater. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 6 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 24 is included as Table 2-24.

2.1.23 Site 25 - Lower Subase-Classified Materials Incinerator

Site 25 consists of the former classified materials incinerator located on the Lower Subase, approximately 300 feet east of Pier 17. The site map is included as Figure 8-21. The site's location relative to other IR sites is shown on Figure 8-2.

It was reported that, between 1944 and 1963, facilities within former Building 97 (current Building 478) were used to burn classified materials and other solid wastes generated at NSB-NLON (EPA, 1995). All materials generated by base operations that were not salvageable were incinerated at Site 25. Residual ash produced by materials burning was disposed in the Goss Cove Landfill (EPA, 1995). Adjacent to the incinerator was a dumpster-cleaning operation. The incinerator became inoperable in 1963 and operations ceased. The incinerator was demolished in 1979, and Buildings 456 and 478 were constructed.

The area was investigated during the Pier 33 and Berth 16/Former Incinerator Site Investigation (Atlantic, 1995a) and the Lower Subase RI (TtNUS, 1999b). A geotechnical investigation for the replacement of the quay wall was also conducted at the site in 1989. The results of the geotechnical investigation were presented in the Site Investigation Report.

During the geotechnical investigation, a soil sample was collected and analyzed for metals, VOCs, TPH, oil type by fluorescence, pesticides, and PCBs, and a groundwater sample was collected and analyzed for VOCs. No. 2 fuel oil was detected in subsurface soils in front of Building 175 during the investigation. Petroleum contamination was also evident based on odor and visual inspection.

Following discovery of the petroleum contamination, the site was added to the IR Program. Atlantic conducted a Site Investigation at the site to determine the presence and magnitude of specific contaminants and to determine if the results warranted an RI/FS. The field investigation consisted of a soil gas survey, a utility-manhole inspection, soil boring installation, monitoring well installation, and soil, groundwater, and sediment sampling and analysis. Petroleum and metal contamination was identified during the Site Inspection.

Prior to proceeding to the Lower Subase RI, available data were collected and reviewed to identify data gaps that needed to be filled during the RI. As a result of the review, further investigation of soil and groundwater containing petroleum constituents, contamination in storm sewer catch basins, extent of ash disposal in the vicinity of 20MW6, and any soils containing TCLP lead levels greater than 150 µg/L were recommended. Also, testing of any UST and piping not recently tested was recommended to eliminate the possibility of an ongoing petroleum source. Additional investigation of site operations and sediment analysis of the storm sewer system were also recommended to determine the extent and source of sediment contamination. Removal and disposal of contaminated sediments and modification of any site operations identified as a contributor to the contaminated sediment were also recommended.

Soil, groundwater, and sediment sampling (in the adjacent Thames River) and analysis were completed at this site during the Lower Subase RI (TtNUS, 1999b). Site 25 was evaluated collectively with Site 21 and Transformers at Building 157, Vault 31 during the RI as Zone 7. Because of this approach, the remainder of this section only discusses information in terms of Zone 7.

A large area of lead contamination was identified in the shallow and deep soil in Zone 7. TPH contamination was also identified in two general areas. Little organic contamination was identified in the groundwater; however, two areas of lead contamination were identified in Zone 7 groundwater. The HHRA showed that there are potential risks to receptors from exposure to contaminated site media. The ERA for the Thames River (sediment and surface water) adjacent to Zone 7 showed that the risks to ecological receptors were low to moderate. The evaluation indicated that there were potential risks to sediment-dwelling organisms from contaminants near Pier 17 but not near Pier 15. However, most of the sediment near Piers 15 and 17 were subsequently dredged making interpretation of the results from historical studies difficult.

The Lower Subase RI Report (TtNUS, 1999b) recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The RI also recommended that Zone 7 soil and groundwater proceed to an FS for evaluation of appropriate remedial alternatives. Because of the extensive amount of underground utilities in Zone 7 and the sensitive nature of the activities conducted at this location (i.e., national security), it was recommended

that the FS for this zone focus, to the extent possible, on alternatives that rely on institutional controls to limit exposure to contaminated soil and passive and/or in-situ remedial alternatives. "Hot spot" removal actions for the lead contamination were also recommended for evaluation during the FS. In addition, it was recommended that the FS evaluate limited action scenarios for the groundwater and storm sewer system of Zone 7, in conjunction with the soil remedial alternatives. A tiered groundwater monitoring program was recommended for evaluation during the FS.

The Navy subsequently cleaned the Lower Subase storm sewer catch basins in August 2000. Five catch basins in Zone 7 were cleaned by Fleet Environmental using a vacuum truck. The material removed from the catch basins was containerized, tested, and properly disposed off site. The storm sewer lines were not surveyed or repaired during the effort.

An FS for Zone 7 soil and groundwater was under preparation, but it was put on hold until additional investigation of the Thames River adjacent to Zone 7 was completed to further refine the ERA. The results of the investigation will be used to determine if the Thames River sediment should be included in the FS. The date for finalization of the FS for the Lower Subase zones has not been determined. After the FS is finalized, a remedy for Zone 7 will be selected by the Navy, EPA, and CTDEP. A summary of findings for Site 25 is included as Table 2-25.

2.2 SITE GROUPINGS

Several sites are located in the area of NSB-NLON referred to as the Lower Subase. The Lower Subase site is bounded on the west by the Thames River and to the east by the Providence and Worcester Railroad. The Lower Subase extends to and includes Pier 1 to the south and Pier 33 to the north. The Lower Subase is the original Subase and therefore, the history of its use dates back to 1867. Most of the construction at the Lower Subase took place in the early 1900s, with a major expansion from 1935 to 1945. Sites in the Lower Subase which were described in previous sections, have been grouped together to facilitate additional investigation. The following sites are included in the Lower Subase:

Site 10 - Lower Subase - Fuel Storage Tanks and Tank 54-H
Site 11 - Lower Subase - Power Plant Oil Tanks
Site 13 - Lower Subase - Building 79 Waste Oil Pit
Site 17 - Lower Subase - Hazardous Materials/Solvent Storage Area (Building 31)
Site 19 - Lower Subase - Solvent Storage Area (Building 316)
Site 21 - Lower Subase - Berth 16
Site 22 - Lower Subase - Pier 33
Site 24 - Lower Subase - Central Paint Accumulation Area (Building 174)
Site 25 - Lower Subase - Classified Materials Incinerator

TABLE 2-1

SUMMARY OF FINDINGS FOR SITE 1 - CBU DRUM STORAGE AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.	
Source of Contamination	Waste oils, lubricants, and paint solvents leaked from 55-gallon storage drums formerly located on the site.	
Analytical Parameters	Atlantic, Phase I RI (1992) <u>Soils:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and cyanide Other TPH and TCLP metals and PCBs	B&RE, Phase II RI (1997b) <u>Soils and Groundwater:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and boron and hardness Other TPH
Historic Nature and Extent of Contamination	<u>Phase II RI - Soils:</u> PAH contamination detected in subsurface soils up to a maximum concentration of 16,000 µg/kg. Pesticides detected in surface soils up to a maximum concentration of 3,900 µg/kg (4,4'-DDD) and in the subsurface soils up to a maximum concentration of 2,100 µg/kg (4,4'-DDD). Metals detected in soils at maximum concentrations exceeding background levels. Highest detected contaminant concentrations occurred at soil depths between 5 and 8 feet below ground surface. <u>Phase II RI - Groundwater:</u> Various metals detected in filtered and unfiltered samples. The maximum detected concentration of VOCs was 24 µg/L (xylenes) and SVOCs was 31 µg/L (naphthalene).	
Recommended Remedial Alternative	A NFA Decision Document for Site 1 was signed by the Navy and regulators and was distributed on September 19, 1996. This document removed Site 1 from further consideration in the IR Program process and changed the site's status to RC. The site was capped during construction of the Site 2 cover system. Groundwater associated with Site 2 is currently being monitored under a long-term groundwater monitoring program. A remedy for the groundwater will be selected in the future.	

TABLE 2-2

SUMMARY OF FINDINGS FOR SITE 2 - AREA A LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Landfilling of refuse generated from on-base activities; leaks of transformer fluids, PCBs, and waste acids from drums stored at this site.		
Analytical Parameters	Atlantic, Phase I RI (1992) Soil and Groundwater: TCL organics (volatiles, semi-volatiles, pesticides/PCBs) TAL inorganics and cyanide Other TCLP metals and pesticides (soil), radiological (groundwater)	Atlantic, FFS (1995c) Soil: TCL organics (volatiles, semi-volatiles, pesticides/PCBs) TAL inorganics plus boron and cyanide Dioxin Engineering parameters TCLP (volatiles, semi-volatiles, pesticides/PCBs, herbicides, metals)	B&RE, Phase II RI (1997b) Soil: Dioxin Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics plus boron and hardness Radiological
	TtNUS, BGOURI (2002b) Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	TtNUS, Annual Groundwater Monitoring Reports (2001b, 2002d, and 2003a) Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	

TABLE 2-2

SUMMARY OF FINDINGS FOR SITE 2 - AREA A LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	<u>Phase II RI - Soil:</u> Relatively high concentrations of various organic and inorganic chemicals were detected in a few soil samples. Ethylbenzene and xylenes were detected in the subsurface soil at maximum concentrations of 28,000 µg/kg, and 140,000 µg/kg, respectively. Chlorobenzene was detected in the surface and subsurface soil at maximum concentrations of 4,500 µg/kg. Aroclor-1254 was detected in the subsurface soil at a maximum concentration of 100,000 µg/kg. Aroclor-1260 was detected in the surface soil at a maximum concentration of 12,000 µg/kg. In addition, several PAHs were detected in the soil, and several metals were detected in the surface soil at concentrations exceeding background. <u>Phase II RI - Groundwater:</u> BTEX contamination at maximum concentrations of 760 µg/L (total xylenes). Chlorobenzene contamination at maximum concentrations of 1200 µg/L. Aroclor-1260 contamination at a maximum concentration of 710 µg/L. <u>Groundwater Monitoring Program – Groundwater:</u> The results of Year 3 of the monitoring program showed low concentrations of total xylenes, bis(2-ethylhexyl)phthalate, arsenic, cadmium, chromium, copper, and zinc in groundwater along the downgradient edge of the landfill. The results did not indicate any significant contaminant migration issues.
Recommended Remedial Alternative	A low-permeability cover system was installed at the site in 1997. The status of the soil/landfill is considered to be RIP. O&M of the cover system is being completed by the Navy. Groundwater monitoring is being conducted at the site as part of a long-term groundwater monitoring program. A remedy for the groundwater will be selected in the future.

BTEX - Benzene, toluene, ethylbenzene, and xylenes.

TABLE 2-3

SUMMARY OF FINDINGS FOR SITE 2 - AREA A WETLAND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of contamination in the site soils, sediments, surface water, and groundwater.		
Source of Contamination	Pesticide bricks used for mosquito control. Drainage from adjoining sites. Placement of Thames River dredge spoils in site.		
Analytical Parameters	Atlantic, Phase I, RI (1992) <u>Soils, Sediment, Surface Water, Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and cyanide and boron TCLP-metals, pesticides Other radiological for groundwater	Atlantic, FFS (1995c) <u>Sediment</u> TCL inorganics (volatiles, semi-volatiles, pesticides/PCBs) TAL inorganics plus boron and cyanide Engineering parameters	B&RE, Phase II RI (1997b) <u>Surface Water and Groundwater</u> TCL organics (volatiles, semivolatiles) TCL pesticides/PCBs - surface water TAL inorganics and boron and hardness <u>Sediment</u> TCL Pesticides TCLP - metals, engineering parameters
	TtNUS, BGOURI (2002b) <u>Groundwater:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	TtNUS, Groundwater Monitoring Reports (2001b, 2002d, and 2003a) <u>Groundwater:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	

TABLE 2-3

SUMMARY OF FINDINGS FOR SITE 2 - AREA A WETLAND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Phase II RI - Soil and Sediments: Numerous PAHs in surface soil and sediments at concentrations up to a maximum of 80,000 µg/kg (fluoranthene). Maximum detected PCB concentration in sediment samples was 1,500 µg/kg (Aroclor-1260). 4,4'-DDD, 4,4'-DDE and 4,4'-DDT were the most frequently detected pesticides (18 out of 43, 18 out of 46, and 13 out of 39, respectively) and at the highest concentrations (up to 4,800 µg/kg for 4,4'-DDD) in the sediment samples. Phase II RI - Surface Water and Groundwater: Relatively low concentrations of all organic and inorganic contaminants were detected in surface water and groundwater samples. Manganese was detected in filtered, shallow and deep groundwater samples at maximum concentrations of 9,360 µg/kg and 7,090 µg/kg, respectively. Groundwater Monitoring Program – Groundwater: The results of Year 3 of the monitoring program showed low concentrations of total xylenes, bis(2-ethylhexyl)phthalate, arsenic, cadmium, chromium, copper, and zinc in groundwater along the downgradient edge of the landfill. The results did not indicate any significant contaminant migration issues.
Recommended Remedial Alternative	The Phase II RI recommended that this site proceed to an FS and alternatives involving limited action (e.g., land use controls) be developed and evaluated. The groundwater beneath the Area A Wetland is being monitored as part of the Site 2 long-term groundwater monitoring program.

TABLE 2-4

SUMMARY OF FINDINGS FOR SITE 3 - AREA A DOWNSTREAM WATERCOURSES/OBDA POND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, sediment, surface water, and groundwater contamination at the site.		
Source of Contamination	Drainage into the water courses from adjoining base facilities. Direct disposal into the wetland located at the base of the OBDA dike. Pesticide bricks used for mosquito control.		
Analytical Parameters	Atlantic, Phase I RI (1992) <u>Soils, Sediments, Surface Water, Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and cyanide TCLP metals and pesticides (soil, sediment) Radiology (surface water, groundwater)	Atlantic, FFS (1994c) <u>Soil</u> TCL organics (pesticides/PCBs) Engineering characteristics <u>Sediment</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics plus boron and cyanide Dioxin, engineering char. TCLP (VOC, SVOC, pesticides, herbicides, metal)	B&RE, Phase II RI (1997b) Soil Gas Survey - Area A Water Courses <u>Sediment, Surface Water, Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and boron and hardness Other radiological (groundwater) Dioxin (sediment)
	TtNUS, BGOURI (2002a) <u>Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	TtNUS, BGOURI Update/FS (2004) <u>Soil</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics <u>NSA - Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters <u>Other Areas – Groundwater</u> TCL organics (volatiles, PAHs) TAL inorganics	

TABLE 2-4

SUMMARY OF FINDINGS FOR SITE 3 - AREA A DOWNSTREAM WATERCOURSES/OBDA POND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: All soil with contamination above the remedial goals was excavated and disposed offsite during the RA conducted in 1999 and 2000. Prior to the RA, concentrations of pesticides in soil were detected at concentrations of up to 1,400,000 µg/kg (4,4'-DDT). Petroleum contamination (TPH concentrations greater than 1,000 mg/kg) is present in the soil at Site 3 – NSA. Sediment: All sediment with contamination above remedial goals was excavated and disposed offsite during the RA conducted in 1999 and 2000. Prior to the RA, PAHs were detected at a maximum concentration of 4,700 µg/kg (pyrene) adjacent to Shark Boulevard and maximum pesticide concentrations ranged from 120,000 µg/kg of 4, 4' DDD in Zone 3 to 850,000 µg/kg of 4,4' DDD in Zone 2. Phase II RI - Surface Water: No significant pesticide contamination. Magnesium contamination at maximum concentration of 22,600 µg/L. Phase II RI - Groundwater: TCE detected in deep wells at a maximum concentration of 17 µg/L. Vinyl chloride detected in shallow wells at maximum concentration of 130 µg/L. Magnesium detected in filtered shallow groundwater samples at maximum concentration of 61,000 µg/L. BGOURI Update/FS - Groundwater: TCE and vinyl chloride were both detected at maximum concentrations of 2 µg/L. Magnesium detected at a maximum concentration of 5,770 µg/L.

TABLE 2-4

SUMMARY OF FINDINGS FOR SITE 3 - AREA A DOWNSTREAM WATERCOURSES/OBDA POND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	An FS was prepared that focused on pesticide and metals contamination in soil and sediments associated with the site. A ROD was signed in March 1998, and the selected remedy was excavation and off-site disposal of contaminated soils and sediment. A RD for the soil and sediment was completed in 1999, and the RA was completed in 2000. A monitoring program has been conducted since the end of construction in 2000 to verify the success of site restoration activities. An FS was prepared for the petroleum-contaminated soil at Site 3 – NSA. The expected remedy for the soil is excavation and off-site disposal. A Proposed Plan and ROD are currently being prepared to document the selected remedy. An FS was completed for the groundwater at Site 3. The expected remedy for the groundwater is institutional controls with monitoring. A Proposed Plan and ROD are currently being prepared to document the selected remedy.

TABLE 2-5

SUMMARY OF FINDINGS FOR SITE 3 - OBDA DEBRIS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Remove the debris from the site and dispose offsite.
Potential Source of Contamination	Direct disposal of debris over the OBDA dike.
Analytical Parameters	FWEC, OBDA Post Removal Report (1997c) Debris: 4,4'-DDT Soil Resulting from Decontamination of Debris: 4,4'-DDT
Nature and Extent of Contamination	No sample results available, action only involved determination of contamination of debris.
Recommended Remedial Alternative	The debris at this site was removed during a NTCRA, and the status of the site has been changed to RC. An Action Memorandum was prepared by the Navy (1997b) to document the RA. The groundwater at Site 3 is addressed in Table 2-4.

TABLE 2-6

SUMMARY OF FINDINGS FOR SITE 4 - RUBBLE FILL AREA AT BUNKER A-86
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, sediment, surface water, and groundwater contamination. Confirm removal of contaminated soil.
Source of Contamination	Refuse generated by on-base construction activities.
Analytical Parameters	Atlantic, Phase I RI (1992) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and cyanide and boron TCLP metals and PCBs B&RE, Phase II RI (1997b) Soil, Sediment, Surface Water, Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and boron and hardness Other TCLP-metals (soil) Engineering characteristics (soil, groundwater, sediment) B&RE, Bunker A-86 Verification Sampling Report (1997c) Soil: TCL semivolatiles TAL inorganics Synthetic Precipitation Leaching Procedure (SPLP)-Metals
Historic Nature and Extent of Contamination	Soil: PAH contamination in surface soil at a maximum concentration of 180,000 µg/kg (phenanthrene). Several metals were detected at concentrations that exceeded background. All of the soil at this site was removed during a RA that took place in 1997. Sediment: Semivolatiles detected at maximum concentration of 820,000 µg/kg (butylbenzylphthalate). Surface Water: One semivolatile and 11 inorganics detected in unfiltered surface water. Only three inorganics detected in the filtered surface water. Groundwater: Low concentrations of volatiles (maximum detection=11 µg/L of chloroform), semivolatiles [maximum detection=11 µg/L of bis(2-ethylhexyl) phthalate] and pesticides (maximum detection=0.53 µg/L of heptachlor). Concentrations of inorganics detected in groundwater exceeded federal and State screening criteria.

TABLE 2-6

SUMMARY OF FINDINGS FOR SITE 4 - RUBBLE FILL AREA AT BUNKER A-86
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	A TCRA was completed at the site. All of the contaminated soil and construction debris, except wood debris, was excavated and disposed under the Site 2 cover system. A risk evaluation memorandum was prepared for this site after the TCRA to document the minimal remaining risks. An NFA Proposed Plan and ROD were prepared for the soil at this site in 1998. The status of this site is RC. Groundwater in the area is being monitored in conjunction with the Site 2 long-term groundwater monitoring program.

TABLE 2-7

SUMMARY OF FINDINGS FOR SITE 6 - DEFENSE REUTILIZATION AND MARKETING OFFICE
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, surface water, and groundwater contamination at the site.	
Source of Contamination	Discharges from a former battery acid handling facility. Residue from previous on-site landfilling activities.	
Analytical Parameters	Atlantic, Phase I RI (1992) Soil, Surface Water, Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganic plus boron and cyanide Other TCLP metals (soil), Radiological (surface water, groundwater) OHM, Final Report for Interim Remedial Action (1995a) Soil: Total lead, PCBs, and PAHs TCLP (metals) Pavement: PCBs, lead (total) Air: National Institute for Occupational Safety and Health (NIOSH) lead, beryllium, PCBs, and PAHs TtNUS, Annual Groundwater Monitoring Reports (1999e, 2000a, 2002b, and 2003b) Groundwater: TCL organics (volatiles, semivolatiles, PCBs/pesticides) TAL inorganics Miscellaneous water quality parameters	Atlantic, FFS (1994a) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics plus boron and cyanide Dioxin, engineering characteristics TCLP (metals) B&RE, Phase II RI (1997b) Soil, Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) (soil) TCL organics (volatiles, semivolatiles) (groundwater) TAL inorganics plus boron and hardness Other radiological (groundwater) Engineering characteristics

TABLE 2-7

SUMMARY OF FINDINGS FOR SITE 6 - DEFENSE REUTILIZATION AND MARKETING OFFICE
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Phase II RI - Soil: Numerous VOCs and SVOCs detected in subsurface soils. TCE and 1,1,2,2-tetrachloroethane detected at concentrations of 7,100 µg/kg and 6,400 µg/kg, respectively. 1,2-Dichloroethene was detected at a maximum concentration of 16,000 µg/kg. Aroclor 1260 detected in the subsurface soils at a maximum concentration of 12,000 µg/kg. Lead detected in surface and subsurface soils at maximum concentrations of 5,980 mg/kg and 2140 mg/kg, respectively. TCLP lead exceeded federal standards. Phase II RI - Surface Water: No organic chemicals were detected. Several metals were detected in the single sample analyzed. Phase II RI - Groundwater: Concentrations of lead detected in shallow and deep unfiltered groundwater samples at maximum concentrations of 52.7 µg/L and 50.9 µg/L, respectively. Lead was only detected in one of the filtered samples at a concentration of 2.4 µg/L. Groundwater Monitoring Program – Groundwater: The maximum concentration of lead detected in the groundwater during Rounds 13 and 14 of the monitoring program was 5.0 µg/L. The groundwater data from the monitoring program were compared to regulatory criteria and statistically analyzed. The evaluations showed no significant contaminant migration is occurring from the DRMO
Recommended Remedial Alternative	A TCRA was completed in January 1995 to remove soil containing elevated concentrations of lead, PAHs, and PCBs from the northern half of the DRMO. After the contaminated soil was removed, the area was backfilled with clean soil and capped. An FS was completed for the site after the TCRA to determine appropriate RAs. An Interim ROD was prepared and signed in 1998, documenting the selected remedy as institutional controls, monitoring, and maintenance of the existing cover system. The status of the site is RIP. O&M of the cap system is being performed in accordance with the O&M Manual. The groundwater at this site is currently being monitored in accordance with the DRMO Groundwater Monitoring Plan to verify that contaminant migration is not occurring. A final ROD for the site will be prepared.

TABLE 2-8

SUMMARY OF FINDINGS FOR SITE 7 - TORPEDO SHOPS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, sediment, surface water, and groundwater contamination at the site.		
Source of Contamination	Waste discharges from Torpedo Shop drains into the former Torpedo Shop septic systems.		
Analytical Parameters	Atlantic, Phase I RI (1992) Soil, Sediment, Surface Water and Groundwater TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and cyanide Other TCLP metals (soil and surface water)	B&RE, Phase II RI (1997b) Soil, Sediment, Surface Water, and Groundwater TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, boron, and hardness Other TPH (soils, groundwater) TCLP metals, volatiles, semivolatiles, pesticides and herbicides (soils) Pesticide/PCBs (not for groundwater) Engineering characteristics (not for surface water)	B&RE, Site Characterization Report for Building 325 (1996a) Soil and Groundwater Volatiles (BTEX) TPH
	TtNUS, BGOURI (2002) Soil TCL organics (volatiles, semivolatiles) TAL inorganics Engineering parameters Groundwater TCL organics (volatiles, semivolatiles) TAL inorganics Miscellaeous water quality parameters		

TABLE 2-8

SUMMARY OF FINDINGS FOR SITE 7 - TORPEDO SHOPS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	<u>Phase II RI - Soil:</u> Concentrations of metals above background levels detected in surface and subsurface soils. Diethylphthalate detected in surface soil at maximum concentration of 14,000 µg/kg. PAHs detected in shallow soil samples to a maximum concentration of 4,300 µg/kg (phenanthrene). <u>BGOURI – Soil:</u> Diethylphthalate and phenanthrene were not detected in any of the new soil samples collected during the BGOURI. Low concentrations (less than 70 µg/kg) of several VOCs detected in subsurface soil samples. Only one PAH, pyrene (25 µg/kg), was detected in the soil samples. <u>Phase II RI - Sediment:</u> Maximum concentrations for analytes detected in sediment included methylene chloride (18 µg/kg) pyrene (240 µg/kg), and 4,4'-DDD (93 µg/kg). <u>Phase II RI - Surface Water:</u> Maximum concentrations of barium, lead, and manganese detected in surface water were 30.5 µg/L, 4.4 µg/L, and 32.1 µg/L, respectively. No organic chemicals other than di-n-butylphthalate (0.6 µg/L) were etected. <u>Phase II RI - Groundwater:</u> Various chlorinated volatile hydrocarbons detected during all three rounds of sampling in only unfiltered samples. The maximum detection was 42 µg/L (1,1,1-trichloroethane). Semivolatiles [maximum detection=380 µg/L of bis(2-ethylhexyl) phthalate] and inorganics (arsenic=112 µg/L, lead=84.1 µg/L and manganese=7,830 µg/L). <u>BGOURI – Groundwater:</u> Chlorinated volatile hydrocarbons also detected in groundwater during BGOURI. The maximum detection was 165 µg/L (chlorobenzene). Other compounds detected include 1,4-dichlorobenzene, 1,3-dichlorobenzene, and TCE. Semivolatiles [maximum detection=190 µg/L of bis(2-ethylhexyl) phthalate] and inorganics (arsenic=11.4 µg/L, lead=32.8 µg/L, and manganese=1,250 µg/L).

TABLE 2-8

SUMMARY OF FINDINGS FOR SITE 7 - TORPEDO SHOPS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	Further characterization of the Torpedo Shops was completed during the BGOURI. The characterization focused on the abandoned sewer lines and leach fields and on gaining a better understanding of the shops' historical sewer system. The results of the BGOURI did not show any significant new information, but they provided clarification on the nature and extent of contamination. The risk assessment results from the RI showed that there are potential risks from contact with PAHs in soil and VOCs in groundwater. An FS was prepared to develop and evaluate alternatives for the PAHs in soil. The expected remedy for the soil is excavation and off-site disposal. A Proposed Plan and ROD are currently being prepared to document the selected remedy. An FS was also completed for the groundwater at Site 7. The expected remedy for the groundwater is institutional controls with monitoring. A Proposed Plan and ROD are currently being prepared to document the selected remedy.

TABLE 2-9

SUMMARY OF FINDINGS FOR SITE 8 - GOSS COVE LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the natural and extent of soil, sediment, surface water, and groundwater contamination at the site.	
Source of Contamination	Contaminant migration from inactive landfill; PCE contamination in groundwater is migrating onto the Goss Cove Site from an off-site source.	
Analytical Parameters	Atlantic, Phase I RI (1992) <u>Soil, Surface Water, Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and boron Other TCLP-metals (soil) Radiological (groundwater and surface water) B&RE, DGI Report for Goss Cove Landfill (B&RE, 1997e) <u>Soil, Groundwater</u> TCL organics (VOCs) <u>Air</u> TCL volatiles TtNUS, Groundwater Monitoring Report (2003c) <u>Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	B&RE, Phase II RI (1997b) <u>Soil, Sediment, Surface Water, Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, boron, and hardness Engineering characteristics Other TCLP-metals (soil and sediment), Radiological (groundwater) Dioxin (soil) TtNUS, BGOURI (2002a) <u>Groundwater</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters

TABLE 2-9

SUMMARY OF FINDINGS FOR SITE 8 - GOSS COVE LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	<u>Phase II RI - Soil:</u> BTEX compounds detected in subsurface soil at a maximum concentration of 480,000 µg/kg (xylenes). Phenol and chrysene detected in subsurface soil at maximum concentrations of 1,600,000 µg/kg and 500,000 µg/kg, respectively. PCBs detected in subsurface soils at a maximum concentration of 33,000 µg/kg (Aroclor-1254). <u>Phase II RI - Sediment:</u> PAHs detected at maximum concentration of 8,000 µg/kg (pyrene). <u>Phase II RI - Surface Water:</u> Boron detected at a maximum concentration of 580 µg/L <u>Phase II RI - Groundwater:</u> BTEX compounds detected in groundwater at a maximum concentration of 610 µg/L. PCE detected in deep well sample at a maximum concentration of 5,600 µg/L. During the DGI, PCE was detected at a maximum concentration of 2,500 µg/L at the well closest to the off-site dry cleaners. Boron detected in filtered, deep well samples at a maximum concentration of 2,590 µg/L. <u>BGOURI – Groundwater:</u> BTEX compounds detected in groundwater at a maximum concentration of 454 µg/L. PCE detected at a maximum concentration of 1,900 µg/L in wells upgradient of the landfill. Degradation products of PCE also detected in the groundwater. Boron was not analyzed for during the BGOURI. Maximum concentration of lead was 53.1 µg/L. <u>Groundwater Monitoring Program – Groundwater:</u> BTEX compounds detected in groundwater at a maximum concentration of 200 µg/L. PCE detected at a maximum concentration of 3,300 µg/L in wells upgradient of the landfill. Degradation products of PCE also detected in the groundwater. Maximum concentration of lead was 85.6 µg/L.

TABLE 2-9

SUMMARY OF FINDINGS FOR SITE 8 - GOSS COVE LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	An FS was prepared for the soil/waste at this site. Outstanding ecological issues associated with the surface water and sediment in Goss Cove were also addressed in the FS. A Proposed Plan and ROD were prepared in 1999 to document the selected remedies of capping, institutional controls, and monitoring for the soil/waste and NFA for the sediment and surface water. Installation of the engineered cap system was completed in 2001. The groundwater at the site is currently being monitored under a long-term groundwater monitoring program. A remedy for the groundwater will be selected in the future.

TABLE 2-10

SUMMARY OF FINDINGS FOR SITE 9 - OILY WASTEWATER TANK (OT-5)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.
Source of Contamination	Residual fuel oil contamination contained in tank sludge passing through cracks in the concrete tank walls and bottom.
Analytical Parameters	HNUS, Site Characterization Report (1994a) Soil, Groundwater, Tank Water, Concrete TCL organics volatiles, semi-volatiles, pesticides/PCBs) TAL inorganics Other TCLP metals
Nature and Extent of Contamination	Soil: SVOCs and metals detected in samples collected above the tank (2 to 4 feet below ground surface). 2-Methylnaphthalene detected at a maximum concentration of 2,600 µg/kg. Arsenic, beryllium, and chromium detected at concentrations of 2,800 µg/kg, 430 µg/kg, and 30,700 µg/kg, respectively. No significant contamination detected below the tank. Groundwater: The only chemical found at a concentration slightly exceeding federal or State MCLs was PCE. Tank Water: Various semivolatiles, pesticides, PCBs and inorganics were detected in the tank water. Concrete: No chemical concentrations detected in the analyzed samples were greater than screening levels.

TABLE 2-10

SUMMARY OF FINDINGS FOR SITE 9 - OILY WASTEWATER TANK (OT-5)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	OT-5 contents have not significantly affected subsurface soil or groundwater. The majority of soil contamination was detected above the tank at a depth of 2 to 4 feet below the ground surface. In 1993, a majority of the contents of OT-5, including the floating product layer, water, and sludge, were removed and disposed off site. Residual materials contained in OT-5 were later removed and stored on site as follows: Storage Vessel — Contents Frac Trailer No. 1 — 6,000 Gallons Waste Decontamination Fluid Frac Trailer No. 2 — 19,000 Gallons OT-5 Bottom Sludge Roll-Off Container No. 1 — 20,000 Pounds Bottom Sludge + Waste Wipe Cloths + Discarded PPE Roll-Off Container No. 2 — 20,000 Pounds Bottom Sludge + Waste Wipe Cloths + Discarded PPE The primary waste contaminants were PCBs at concentrations up to 500 mg/kg. In April 1994, HNUS completed a removal action of these materials and then performed Post Removal Action sampling that confirmed the residual waste materials had been properly shipped and disposed and that the waste storage vessels had been properly decontaminated. After the contents of OT-5 were removed, the tank was cleaned, and the top of the tank was crushed. The tank was closed in place by filling it with inert material. The status of this site is considered to be RC. Site 9 is located within the Site 23. The groundwater at Site 23 was investigated under CERCLA during the BGOURI. Further discussion on the groundwater results for Site 23 is provided in Table 2-23.

TABLE 2-11

SUMMARY OF FINDINGS FOR SITE 10 - LOWER SUBASE - FUEL STORAGE TANKS AND TANK 54-H
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Leaks of stored fuels through cracks in the tank walls.		
Analytical Parameters	Atlantic, Phase I RI (1992)	B&RE, Phase II RI (1997b)	TtNUS, Lower Subase RI (1999b)
	Soil: TCL volatiles TAL metals TCLP metals TPH, Fluorescence	Soil: TCLP metals Lead TPH	Soil: TCL semivolatiles TAL metals SPLP lead TPH
	Groundwater: TCL volatiles TAL metals TPH, Fluorescence	Groundwater: TCL volatiles and semivolatiles TAL metals TPH Hardness	Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters
			Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous parameters
			Thames River Surface Water: Miscellaneous water quality parameters

TABLE 2-11

SUMMARY OF FINDINGS FOR SITE 10 - LOWER SUBASE - FUEL STORAGE TANKS AND TANK 54-H
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: High concentrations of TPH detected in deep (maximum of 51,600 mg/kg) and shallow (maximum of 2,300 mg/kg) soil samples. Concentrations of SVOCs in shallow soil were as high as 45 mg/kg and concentrations in deep soil were as high as 42 mg/kg. Lead was detected in shallow and deep soil samples and in TCLP leachates from shallow and deep soil samples. Groundwater: A small plume of lead contamination exists in the area between Building 89 and Site 11. TCL VOCs and SVOCs were infrequently detected at low concentrations. TPH and fluorescence data indicate petroleum contamination in groundwater. Free-phase product detected in well 13MW18. Sediment: PAHs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene was detected at a concentration (880 µg/kg) greater than ecological guideline. The maximum concentrations of barium, copper, and mercury (59.8, 272, and 0.39 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Surface Water: Dissolved oxygen ranged from 7.6 to 8.8 mg/L, pH ranged from 7.5 to 7.9, and salinity ranged from 26.3 to 29.0 parts per thousand (ppt) in the Thames River.
Recommended Remedial Alternative	The Lower Subase RI Report recommended that Zone 1 soil and groundwater proceed to an FS. Passive or in-situ remedial alternatives should be considered for the soil. "Hot spot" removal actions and institutional controls should also be considered. It was recommended that free-phase product be removed from the groundwater and that a monitored natural attenuation/tiered groundwater monitoring program be implemented. Cleaning and repair of the storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 1 concluded that the risks to ecological receptors are relatively minor. The RI recommended additional actions for the Thames River if the results of the tiered groundwater monitoring program showed significant contaminant migration from Zone 1 to the Thames River. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. An FS for Zone 1 soil and groundwater is currently being prepared.

TABLE 2-12

SUMMARY OF FINDINGS FOR SITE 11 - LOWER SUBASE - POWER PLANT OIL TANKS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Leaks of fuel oil through cracks in the concrete storage tanks.		
Analytical Parameters	Atlantic, Phase I RI (1992)	B&RE, Phase II RI (1997b)	TtNUS, Lower Subase RI (1999b)
	Soil: TCL volatiles TAL metals TCLP metals TPH, Fluorescence	Soil: TCLP metals Lead TPH	Soil: TCL semivolatiles TAL metals SPLP lead TPH
	Groundwater: TCL volatiles TAL metals TPH, Fluorescence	Groundwater: TCL volatiles and semivolatiles TAL metals TPH Hardness	Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters
			Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous parameters
			Thames River Surface Water: Miscellaneous water quality parameters

TABLE 2-12

SUMMARY OF FINDINGS FOR SITE 11 - LOWER SUBASE - POWER PLANT OIL TANKS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: High concentrations of TPH detected in deep (maximum of 51,600 mg/kg) and shallow (maximum of 2,300 mg/kg) soil samples. Concentrations of SVOCs in shallow soil were as high as 45 mg/kg, and concentrations in deep soil were as high as 42 mg/kg. Lead was detected in shallow and deep soil samples and in TCLP leachates from shallow and deep soil samples. Groundwater: A small plume of lead contamination exists in the area between Building 89 and Site 11. TCL VOCs and SVOCs were infrequently detected at low concentrations. TPH and fluorescence data indicate petroleum contamination in groundwater. Free-phase product detected in well 13MW18. Sediment: PAHs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene was detected at a concentration (880 µg/kg) greater than ecological guideline. The maximum concentrations of barium, copper, and mercury (59.8, 272, and 0.39 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Surface Water: Dissolved oxygen ranged from 7.6 to 8.8 mg/L, pH ranged from 7.5 to 7.9, and salinity ranged from 26.3 to 29.0 ppt in the Thames River.
Recommended Remedial Alternative	The Lower Subase RI Report recommended that the Zone 1 soil and groundwater proceed to an FS. Passive or in-situ remedial alternatives should be considered for the soil. "Hot spot" removal actions and institutional controls should also be considered. It is recommended that free-phase product be removed from the groundwater and that a monitored natural attenuation/tiered groundwater monitoring program be implemented. Cleaning and repair of the storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 1 concluded that the risks to ecological receptors are relatively minor. The RI recommended additional actions for the Thames River if the results of the tiered groundwater monitoring program showed significant contaminant migration from Zone 1 to the Thames River. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. An FS for Zone 1 soil and groundwater is currently being prepared.

TABLE 2-13

SUMMARY OF FINDINGS FOR SITE 13 - LOWER SUBASE - BUILDING 79 WASTE OIL PIT
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Contaminant migration from inactive waste disposal area.		
Analytical Parameters	Atlantic, Phase I RI (1992) Soil: TCL organics (volatiles) TPH TAL inorganics, boron, and cyanide TCLP metals Fluorescence oil identification Groundwater: TCL organics (volatiles) TAL inorganics, boron, and cyanide TPH Fluorescence oil identification	B&RE, Phase II RI (1997b) Soil: TPH Lead TCLP metals Groundwater: TCL organics (volatiles, semivolatiles) TAL inorganics, boron, and hardness	TtNUS, Lower Subase RI (1999b) Soil: TCL semivolatiles TAL metals SPLP lead TPH Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous parameters Thames River Surface Water: Miscellaneous water quality parameters

TABLE 2-13

SUMMARY OF FINDINGS FOR SITE 13 - LOWER SUBASE - BUILDING 79 WASTE OIL PIT
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: Little VOC contamination was evident in the soils. PAH and TPH contamination was detected in shallow soils but was more widespread in deep soils. Two areas of lead contamination were identified in shallow soils, and lead was detected in TCLP leachates from shallow soils. Lead concentrations in deep soils were significantly less than in shallow soils. Lead was detected at a maximum concentration of 10,600 mg/kg. Detected TPH concentrations at this site reached 11,800 mg/kg. Groundwater: Minor concentrations of VOCs and SVOCs were detected in groundwater samples. Three small areas of lead contamination were detected in the groundwater. Other inorganics detected in the groundwater at significant concentrations included antimony, arsenic, beryllium, cadmium, chromium, copper, mercury, nickel, thallium, and zinc. Sediment: SVOCs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene was detected at a concentration (1,900 µg/kg) greater than ecological guidelines. The maximum concentrations of lead, selenium, and zinc (569, 0.9, and 1,650 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Surface Water: Dissolved oxygen ranged from 6.8 to 7.0 mg/L, pH ranged from 7.6 to 7.8, and salinity ranged from 27.1 to 29.2 ppt in the Thames River.
Recommended Remedial Alternative	The Lower Subase RI Report recommended that the Zone 4 soil and groundwater proceed to an FS. Passive or in-situ remedial alternatives as well as "hot spot" removal actions and institutional controls should be considered for the soil. A tiered groundwater monitoring program and cleaning and repair of the storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 4 concluded that the risks to ecological receptors were low to moderate. The RI recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. Additional investigation of the Thames River adjacent to Zone 4 is currently being completed to further refine the ERA. The FS for Zone 4 soil and groundwater and Thames River sediment will be finalized after the additional investigation is completed.

TABLE 2-14

SUMMARY OF FINDINGS FOR SITE 14 - OVER BANK DISPOSAL AREA – NORTHEAST
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.	
Source of Contamination	Contaminant migration from inactive waste disposal area.	
Analytical Parameters	Atlantic, Phase I RI (1992) <u>Soil:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and boron TCLP metals TtNUS, BGOURI (2002a) <u>Groundwater:</u> TCL organics (volatiles) TAL metals	B&RE, Phase II RI (1997b) <u>Soil:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, boron, and hardness TCLP metals <u>Groundwater:</u> TCL organics (volatiles and semivolatiles) TAL inorganics, boron, and hardness
Nature and Extent of Contamination	<u>Soils:</u> Concentrations of VOCs ranged no higher than 18 µg/kg. Arsenic and lead were detected at maximum concentrations of 16.3 mg/kg and 403 mg/kg, respectively, in the surface soil. <u>Phase II RI - Groundwater:</u> Carbon disulfide and bis(2-ethylhexyl) phthalate were detected at 1 µg/L each in the groundwater. Arsenic was detected at 2.1 µg/L in one groundwater sample. Manganese, iron, aluminum, and zinc were detected in the groundwater at maximum concentrations of 779 µg/L, 4,430 µg/L, 171 µg/L, and 9.1 µg/L, respectively. <u>BGOURI – Groundwater:</u> Seven metals were detected in the single sample collected during the RI. Barium (48.8 µg/L), iron (1,330 µg/L), and manganese (88.2 µg/L) were the only metals detected, other than essential nutrients (calcium, magnesium, potassium, and sodium).	

TABLE 2-14

SUMMARY OF FINDINGS FOR SITE 14 - OVER BANK DISPOSAL AREA – NORTHEAST
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	Based on detections of lead and arsenic in the surface soil at 14SS3, the Phase II RI recommended further characterization. The Navy opted to conduct a NTCRA at the site in 2001. Contaminated soil and debris were removed from the site and disposed off site. No significant risks from exposure to the soil remained at site after the NTCRA; therefore, the Navy is in the process of preparing a Proposed Plan and ROD to document a NFA decision for Site 14 soil. The groundwater was further characterized during the BGOURI, and the risks associated with exposure to the groundwater were further evaluated during the BGOURI Update/FS. The evaluation indicated that there are no significant risks to potential receptors from exposure to Site 14 groundwater. A Proposed Plan and ROD are currently being prepared to document the NFA decision for Site 14 groundwater.

TABLE 2-15

SUMMARY OF FINDINGS FOR SITE 15 - SPENT ACID STORAGE AND DISPOSAL AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, sediment, and groundwater contamination at the site.	
Source of Contamination	Acid leaks from the battery acid storage tank and battery housing storage pad located at the site.	
Analytical Parameters	Atlantic, Phase I RI (1992) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL Inorganics TCLP metals	B&RE, Phase II RI (1997b) Soil, Sediment and Groundwater TCL Organics (volatiles, semivolatiles, pesticides/PCBs) TAL Inorganics Other engineering characteristics (sediment, groundwater)
	Atlantic, FFS (1994b) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL Inorganics Other TCLP (volatiles, semivolatiles, pesticides, herbicides, and metals) Engineering characteristics	OHM, Final Report for Soil Remediation at SASDA (1995b) Soil: Total Lead TCLP Lead CTDEP Soil: SPLP Lead
	BGOURI, TtNUS (2002a) Groundwater: TCL organics (volatiles, semivolatiles) TAL inorganics	BGOURI Update/FS, TtNUS (2004) Soil: TCL organics (volatiles) TAL inorganics Groundwater: TCL organics (volatiles) TAL inorganics Acidity

TABLE 2-15

SUMMARY OF FINDINGS FOR SITE 15 - SPENT ACID STORAGE AND DISPOSAL AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	<u>Phase II RI - Soil:</u> VOCs were detected at trace levels. SVOCs, including benzoic acid, bis(2-ethylhexyl)phthalate, carbazole, dibenzofuran and several PAHs, were detected in surface soil at a maximum concentration of 3,705 μg/kg. Pesticides, particularly DDT, DDD, and DDE, were detected at a maximum concentrations of 190 µg/kg, 55 μg/kg, and 130 μg/kg, respectively, in the surface soil. Lead was detected in the surface soil samples at a maximum concentration of 432 µg/kg, with a corresponding TCLP concentration of 1.4 mg/L. It has been estimated that approximately 200 cubic yards of lead-contaminated soil surround the tank. Other metals detected in the soil includes barium, cadmium, and chromium. <u>BGOURI Update Soil:</u> Two VOCs (acetone and methylene chloride), which are common laboratory contaminants, were detected in the soil samples. Twenty-two inorganics were detected in the subsurface soil samples collected during the investigation. Maximum concentrations of cadmium, chromium, lead, nickel, silver, and zinc, which were identified as potential COCs during the BGOURI, were detected at maximum concentrations of 4.8, 34.1, 560, 19.7, 0.62, 207 mg/kg, respectively. <u>Phase II RI Sediment:</u> Three phthalate esters were detected at concentrations ranging from 37 µg/kg to 990 µg/kg. Benzoic acid (260 µg/kg), carbazole (22 µg/kg), and several PAHs ranging from 25 µg/kg to 250 µg/kg were detected in the sediment. Three pesticides [4,4'-DDT (6 µg/kg), endosulfan sulfate (10 µg/kg) and heptachlor (2.5 µg/kg)] as well as several metals were detected. Lead was found at a concentration of 18.1 mg/kg. <u>Phase II RI Groundwater:</u> Carbon disulfide was the only volatile detected at 3 μg/L. Semivolatiles detected in groundwater samples included bis(2-ethylhexyl)phthalate, naphthalene, phenanthrene, 1,4-dichlorobenzene, and di-n-butyl phthalate. One pesticide, heptachlor, was detected at 0.54 μg/L. Several metals were detected in the groundwater.

TABLE 2-15

SUMMARY OF FINDINGS FOR SITE 15 - SPENT ACID STORAGE AND DISPOSAL AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination (Continued)	BGOURI Update Groundwater: Chloroform was the only VOC detected and it was only detected in one of six samples at a concentration of 3 µg/L. Cadmium was detected in one sample at a concentration of 4.4 µg/L. Chromium, lead, and silver were detected at concentrations that were one to three orders of magnitude less than the concentrations detected during the BGOURI. Nickel was not detected in any groundwater sample. Zinc was detected at a maximum concentration of 365 µg/L.
Recommended Remedial Alternative	A TCRA was completed at Site 15 in 1995. All contaminated pavement, tank contents, and tank materials have been excavated, characterized, and properly disposed off site. Further evaluation of the site after the TCRA showed that the site does not represent a significant risk to human health and the environment. NFA was recommended for the soil at the site. A ROD was signed for this site in 1997 documenting the selected remedy of NFA for the soil. The status of the site is RC. An NFA decision document for Site 15 groundwater is currently being prepared.

TABLE 2-16

SUMMARY OF FINDINGS FOR SITE 16 - HOSPITAL INCINERATORS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine by investigation if there is a potential for the existence of contamination due to past practices at the site that may pose a threat, or potential threat, to public health, welfare, or the environment.
Potential Source of Contamination	Former skid-mounted incinerator
Analytical Parameters	BGOURI, TtNUS (2002a) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs, dioxins/furans) TAL inorganics SPLP metals and PCBs
Nature and Extent of Contamination	Soil: Low concentrations of five pesticides, one PCB congener, and seven dioxin/furan congeners were detected in the soil samples. Low concentrations of a few VOCs were also detected in soil samples. Toluene was the only VOC detected in both surface and subsurface soil samples. SVOCs, mainly PAHs, were only detected in Site 16 subsurface soil samples and may be related to the asphalt pavement covering a majority of the site. Twenty inorganics were detected in the soil samples. SPLP results for surface soil samples indicate that chromium, copper, lead, and vanadium are a potential concern due to contaminant migration; however, the results for the subsurface soil sample do not indicate that inorganics pose a potential concern due to contaminant migration.
Recommended Remedial Alternative	Site 16 was investigated during the BGOURI. The results of the RI did not indicate that subsequent rounds of investigation were warranted. The RI recommended that an NFA decision document be prepared for the site. A Proposed Plan and ROD are currently being prepared to document NFA for the site.

TABLE 2-17

SUMMARY OF FINDINGS FOR SITE 17 - LOWER SUBASE -
HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Leaks of battery acid and other hazardous materials stored at the site through the concrete floor slabs.		
Analytical Parameters	Atlantic, Phase I RI (1992)	HNUS, Action Memorandum (1995a) Post Removal Action Report	B&RE, Phase II RI (1997b)
	<u>Soil</u>: TCL volatiles TAL metals TCLP metals TPH Fluorescence	<u>Soil</u>: TCL volatiles TAL/RCRA metals TCLP metals Lead pH	<u>Soil</u>: TCLP metals Lead TPH
	<u>Groundwater</u>: TCL volatiles TAL metals TPH Fluorescence	<u>Groundwater:</u> TCL (volatiles, semivolatiles, pesticides/PCBs) TAL metals RCRA metals	<u>Groundwater</u>: TCL volatiles and semivolatiles TAL metals TPH Hardness
	TtNUS, Lower Subase RI (1999b)		
	<u>Soil</u>: TCL semivolatiles TAL metals SPLP lead TPH	<u>Groundwater</u>: TCL semivolatiles TAL metals TPH Natural attenuation parameters	
	<u>Thames River Sediment</u>: TCL semivolatiles TAL metals AVS/SEM Miscellaneous Parameters	<u>Thames River Surface Water:</u> Miscellaneous water quality	

TABLE 2-17

SUMMARY OF FINDINGS FOR SITE 17 - LOWER SUBASE -
HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: Although a majority of soil under and adjacent to Building 31 has been remediated, some soils in the vicinity of Building 31 still have elevated levels of lead. The maximum concentrations of lead detected in remaining shallow and deep soil were 4,390 mg/kg and 6,060 mg/kg, respectively. SVOCs, primarily PAHs, and TPH were also detected at relatively high concentrations in both shallow and deep soil. Groundwater: Lead was detected at a maximum total concentration of 392 µg/L in a sample taken from a temporary well inside of Building 31. The maximum concentration of lead detected in a permanent well outside of Building 31 was 10.5 µg/L. Analytical data do not indicate that SVOCs or TPH have migrated to the groundwater. Thames River Sediment: SVOCs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene and phenol were detected at maximum concentrations (1,900 and 150 µg/kg, respectively) greater than ecological guidelines. The maximum concentrations of antimony, lead, and selenium (41.1, 1,380, and 1.1 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Thames River Water: Dissolved oxygen ranged from 6.9 to 8.2 mg/L, pH ranged from 7.7 to 7.8, and salinity ranged from 27.5 to 27.2 ppt in the Thames River.

TABLE 2-17

SUMMARY OF FINDINGS FOR SITE 17 - LOWER SUBASE -
HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	A TCRA was completed at Site 17 in October 1993. All soil above mean low tide elevation with total lead concentrations of 500 mg/kg or more was excavated. All solidified soil had a TCLP extract lead concentration of less than 5.0 mg/L. Demolition debris slated for off-site non-hazardous landfilling were disposed at an approved hazardous waste landfill. It was determined that decontamination of debris and disposal in a non-hazardous landfill was not as cost effective as direct disposal of the debris in the hazardous landfill. The remaining concrete floor slab within Building 31 was either not contaminated or was properly decontaminated. The Lower Subase RI recommended that the Zone 3 soil and groundwater, which includes Site 17, proceed to an FS. It was recommended that institutional controls and "hot spot" removal actions be evaluated for the lead contamination in the soil and that a tiered groundwater monitoring program be considered for the site's groundwater. In addition, the RI recommended that the storm sewer system in the vicinity of Building 31 should be cleaned and repaired. The ERA for the Thames River adjacent to Zone 3 concluded that the risks to ecological receptors were low and that lead is not a significant threat to ecological receptors. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. An FS for Zone 3 soil and groundwater is currently being prepared.

TABLE 2-18

SUMMARY OF FINDINGS FOR SITE 18 - SOLVENT STORAGE AREA (BUILDING 33)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine if there is a potential for the existence of contamination due to past practices at the site that may pose a threat, or potential threat, to public health, welfare, or the environment.
Potential Source of Contamination	Solvent drums and gas cylinders
Analytical Parameters	TtNUS, BGOURI (2002a) <u>Soil:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics SPLP metals SPLP pesticides/PCBs <u>Groundwater:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality
Nature and Extent of Contamination	<u>Soil:</u> Low concentrations of 2-butanone, methylene chloride, and toluene were detected in soil samples. Fifteen PAHs were detected at low concentrations in one surface and one subsurface soil sample. Sixteen inorganics were detected in Site 18 soil but only three inorganics were detected at concentrations greater than background soil concentrations. <u>Groundwater:</u> No VOCs, SVOCs, pesticides, or PCBs were detected in the groundwater samples collected at Site 18. All inorganics were detected at concentrations less than background groundwater concentrations, with the exception of beryllium, which was not detected in background samples. The concentration of beryllium was less than all screening criteria.
Recommended Remedial Alternative	The site was investigated during the BGOURI. The results of the RI did not indicate that subsequent rounds of investigation were necessary to further characterize this site. In addition, the results did not suggest that an FS was necessary for the site. Therefore, the RI recommended that an NFA Decision Document be prepared for this site. Separate Proposed Plans and RODs for Site 18 soil and groundwater, respectively, are currently being prepared to document the NFA decision.

TABLE 2-19

SUMMARY OF FINDINGS FOR SITE 19 - LOWER SUBASE - SOLVENT STORAGE AREA (BUILDING 316)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine by evaluation of newly acquired data if there is a potential for the existence of contamination due to past practices at the site that may pose a threat, or potential threat, to public health, welfare, or the environment.
Potential Source of Contamination	Cans of solvent.
Analytical Parameters	TtNUS, Lower Subase RI (1999b) Soil: TCL semivolatiles TAL metals SPLP lead TPH Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous parameters Thames River Surface Water: Miscellaneous water quality
Nature and Extent of Contamination	SVOCs, predominantly PAHs, and inorganics were detected in shallow and deep soil samples. SVOC concentrations ranged from 22 µg/kg [benzo(b)fluoranthene] to 65 µg/kg [indeno(1,2,3-cd)pyrene]. The maximum concentration of lead detected near this site was 57.1 mg/kg, and the maximum aluminum concentration was 3,770 mg/kg. TPH was detected at a concentration of 210 mg/kg in a shallow soil sample. Inorganics were detected in filtered and unfiltered groundwater samples. Antimony, barium, copper, and zinc were detected in filtered samples. Semivolatiles and TPH were not detected in the groundwater samples.

TABLE 2-19

SUMMARY OF FINDINGS FOR SITE 19 - LOWER SUBASE - SOLVENT STORAGE AREA (BUILDING 316)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	The Lower Subase RI Report recommended that Zone 4 soil and groundwater proceed to an FS. It was recommended that passive or in-situ remedial alternatives as well as "hot spot" removal actions and institutional controls be considered for the soil. A tiered groundwater monitoring program and cleaning and repair of the storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 4 concluded that the risks to ecological receptors were low to moderate. The RI recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. Additional investigation of the Thames River adjacent to Zone 4 is currently being completed to further refine the ERA. The FS for Zone 4 soil and groundwater and Thames River sediment will be finalized after the additional investigation is completed.

TABLE 2-20

SUMMARY OF FINDINGS FOR SITE 20 - AREA A WEAPONS CENTER
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil, sediment, surface water, and groundwater contamination.	
Source of Contamination	Possible leaks from containers of cleaning solutions, paints, adhesives, and lubricants stored in metal storage cabinets located south of Building 524. Leaks of liquid fuels from the weapons storage bunkers.	
Analytical Parameters	Atlantic, Phase I RI (1992) <u>Soil, groundwater</u> TCL organics, (volatiles semivolatiles, pesticides/PCBs) TAL inorganics plus boron and cyanide TCLP metals and pesticides (soil) Radiological (groundwater)	B&RE, Phase II RI (1997b) <u>Soils, Sediments, Surface Water, Groundwater:</u> TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics and boron and hardness TCLP inorganics (soils, sediments), dioxin (sediments)
	TtNUS, BGOURI (2002a) <u>Groundwater</u>: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters	TtNUS, BGOURI Update/FS (2004) <u>Groundwater</u>: TAL inorganics

TABLE 2-20

SUMMARY OF FINDINGS FOR SITE 20 - AREA A WEAPONS CENTER
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	<u>Phase II RI Soils:</u> The most prevalent contaminants detected were phthalate esters and PAHs. PAH contamination was detected in surface soils at concentrations as high as 5700 µg/kg (fluoranthene). A few phthalate esters were detected in several of the subsurface and surface soil samples; however, these compounds were generally detected less frequently and at lower concentrations than the PAHs. The maximum concentration of VOC detected was 690 µg/kg (acetone in one sample). <u>Phase II RI Sediments:</u> The most prevalent contaminants detected were phthalate esters and PAHs. PAH contamination at concentrations up to 6900 µg/kg (flouranthene and pyrene) was detected. Concentrations of phthalate esters ranged from 26 µg/kg to 1,100 µg/kg. <u>Phase II RI Surface Water and Groundwater:</u> Minimal organic and inorganic contamination. The only organic compounds detected in surface water were di-n-octylphthalate and butyl benzylphthalate (both at concentrations of 2 µg/L or less). All concentrations of organics in groundwater were less than 12 µg/L. Manganese was detected at elevated levels (maximum of 6,500 µg/L) in the groundwater. <u>BGOURI and BGOURI Update:</u> TCE, benzo(a)pyrene, arsenic, silver, and thallium were detected in Site 20 groundwater during the BGOURI. Silver was not detected above detection limit (4.8 µg/L) in the groundwater samples collected during the DGI for the BGOURI Update. The results indicate that the silver concentrations detected during the BGOURI were anomalies.
Recommended Remedial Alternative	A ROD was signed for the soil and sediment associated with Site 20 in June 2000. A small (less than 200 cubic yards) RA was conducted at the site in 2001 to address PAH and arsenic contamination in the soil and sediment. The action involved the excavation of soil and sediment with contaminant concentrations exceeding the cleanup levels. The status of Site 20 is RC. Site 20 groundwater was further characterized and evaluated during the BGOURI and BGOURI Update. Overall it was determined that there are no significant levels of contamination in the groundwater and that there are no significant risks associated with exposure to the groundwater. An NFA Proposed Plan and ROD are currently being prepared for Site 20 groundwater.

TABLE 2-21

SUMMARY OF FINDINGS FOR SITE 21 - LOWER SUBASE - BERTH 16
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.
Source of Contamination	Leaks and operating residues generated by USTs, underground fuel transfer piping, and a refuse incinerator formerly operated on the site.
Analytical Parameters	Atlantic, Final SI Report (1995a) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence Dioxin Other TCLP metals Sediments: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence Other TCLP metals Groundwater: TCL organics (volatiles, semivolatiles pesticides/PCBs) TAL inorganics TPH Fluorescence Other TCLP metals TtNUS, Lower Subase RI (1999b) Soil: TCL semivolatiles TAL metals SPLP Lead TPH Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous Parameters Thames River Surface Water: Miscellaneous water quality

TABLE 2-21

SUMMARY OF FINDINGS FOR SITE 21 - LOWER SUBASE - BERTH 16
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: Concentrations of TPH detected across the site, particularly northwest of Building 157. Maximum detected TPH concentration was 2,600 mg/kg. Several SVOCs, primarily PAHs, were detected in shallow and deep soil. High concentrations of inorganics were detected across the site. Detected concentrations of lead ranged from 1.6 to 189,000 mg/kg. Groundwater: Low VOC concentrations detected in groundwater samples (0.6 µg/L to 2 µg/L). No TPH detected in groundwater samples. High lead concentrations up to a maximum value of 117 µg/L (total). Maximum concentration of lead in filtered samples was 97.5 µg/L Storm Sewer Sediments: TPH concentrations up to 1300 mg/kg detected in Berth-16 storm sewer sediment. Inorganics also detected in sediment samples. Thames River Sediment: SVOCs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene was detected at a maximum concentration (630 µg/kg) that was greater than the ecological criteria. The maximum concentrations of barium, copper, and mercury (57.8, 126, and 0.52 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Thames River Surface Water: Dissolved oxygen ranged from 7.3 to 10.1 mg/L, pH ranged from 7.8 to 7.9, and salinity ranged from 25.6 to 29.0 ppt in the Thames River.

TABLE 2-21

SUMMARY OF FINDINGS FOR SITE 21 - LOWER SUBASE - BERTH 16
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	The Lower Subase RI recommended that Zone 7 proceed to an FS to evaluate appropriate remedial alternatives for the soil and groundwater. The RI also recommended that "hot spot" removal actions for lead, institutional controls, and passive or in-situ remedial alternatives should be evaluated for soil in the FS and a tiered groundwater monitoring program and cleaning and repair of storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 7 concluded that the risks to ecological receptors were low to moderate. The RI recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. Additional investigation of the Thames River adjacent to Zone 7 is currently being completed to further refine the ERA. The FS for Zone 7 soil and groundwater and Thames River sediment will be finalized after the additional investigation is completed.

TABLE 2-22

SUMMARY OF FINDINGS FOR SITE 22 - LOWER SUBASE - PIER 33
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.		
Source of Contamination	Leaks from underground fuel storage tanks and associated piping networks currently located at the site.		
Analytical Parameters	Atlantic, Final SI Report (1995a)		
	Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence Other TCLP metals	Sediments: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence	Groundwater: TCL organics (volatiles, semivolatiles pesticides/PCBs) TAL inorganics TPH Fluorescence
	TtNUS, Lower Subase RI (1999b)		
	Soil: TCL semivolatiles TAL metals SPLP lead TPH	Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters	
	Thames River Sediment: TCL organics (semivolatiles, Pesticides/PCBs) TAL inorganics AVS/SEM Miscellaneous parameters	Thames River Surface Water: Miscellaneous water quality	

TABLE 2-22

SUMMARY OF FINDINGS FOR SITE 22 - LOWER SUBASE - PIER 33
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: TPH detected in soils at a maximum concentration of 6,800 ppm. Concentrations of VOCs and SVOCs up to maximum concentrations of 1,900 µg/kg and 23,000 µg/kg, respectively. Contamination originating from tank on southern side of Building 175. Sediment: Maximum detected TPH concentration of 3,300 mg/kg in storm sewers. High concentrations of lead up to a maximum value of 85,600 mg/kg. Groundwater: No detected concentrations of TPH. Low concentrations of VOCs. Low concentrations of metals. Thames River Sediment: SVOCs, pesticides, and metals were detected in sediment samples from the Thames River. Benzo(a)pyrene and phenol were detected at maximum concentrations (870 and 72 µg/kg, respectively) greater than ecological criteria. The maximum concentrations of antimony, copper, and mercury (32.7, 36.8, 0.43 mg/kg, respectively) resulted in the highest HQs when compared to ecological criteria. Thames River Surface Water: Dissolved oxygen ranged from 7.3 to 8.7 mg/L, pH was near 7.8, and salinity ranged from 23.8 to 28.1 ppt in the Thames River.
Recommended Remedial Alternative	The Lower Subase RI recommended that Zone 5 soil and groundwater proceed to an FS to evaluate appropriate remedial alternatives. "Hot spot" removal actions for the petroleum contamination, institutional controls, and in-situ or passive remedial alternatives should be evaluated for the soil in the FS. A combination of monitored natural attenuation and tiered-groundwater monitoring program should be evaluated for the groundwater. Cleaning and repair of the storm sewer system should also be considered during the feasibility study. The ERA for the Thames River adjacent to Zone 5 concluded that the risks to ecological receptors were low. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. An FS for Zone 5 soil and groundwater is currently being prepared.

TABLE 2-23

SUMMARY OF FINDINGS FOR SITE 23 - FUEL FARM
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine the nature and extent of soil and groundwater contamination at the site.
Source of Contamination	Leaks from the nine former 110-foot-diameter, 11-foot-high concrete USTs and the associated underground fuel transfer piping.
Analytical Parameters	B&RE, Tank Farm SI Report (1997i) Tank Farm Soil: Tank Area TPH, BTEX Methyltert-butylether (MTBE) Tank Farm Groundwater: Tank Area TPH, BTEX MTBE, DRO, GRO Fuel Pipeline Soil: TPH Sitewide Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and TPH Sitewide Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and TPH Sitewide Surface Water: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and TPH Sitewide Stream Sediments: TCL organics (volatiles, semivolatiles, pesticides/PCBS) TAL inorganics, cyanide, and TPH Sitewide Pipe Sediments: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics, cyanide, and TPH TtNUS, BGOURI (2002a) Groundwater: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics Miscellaneous water quality parameters Soil: Miscellaneous engineering parameters

TABLE 2-23

SUMMARY OF FINDINGS FOR SITE 23 - FUEL FARM
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Sitewide Soil: Contaminants detected in the soil included volatiles, semivolatiles, pesticides, inorganics, and TPH. Benzo(a)pyrene (1.7 mg/kg), chromium (26.1 mg/kg), and lead (85.1 mg/kg) were detected at concentrations exceeding their associated screening criterion. Inorganics are prevalent throughout the UST farm and are suspected to be attributed to the type of fill material used during the construction of the UST farm. Sitewide Groundwater: Volatiles, semivolatiles, pesticides, inorganics and TPH were detected in the groundwater. Acenaphthene (0.6 µg/L), benzo(a)anthracene (0.8 µg/L), phenanthrene (23 µg/L), arsenic (21.1 µg/L), beryllium (5.6 µg/L), copper (52.7 µg/L), lead (165 µg/L), mercury (5.8 µg/L), nickel (5,990 µg/L), and zinc (165 µg/L) were detected at concentrations exceeding their associated screening criterion. Sitewide Surface Water: Contaminants detected in the surface water included inorganics and TPH. None of the contaminants detected were at concentrations exceeding their associated screening criterion. Sitewide Sediments: Volatiles, semivolatiles, pesticides, inorganics and TPH were detected in the sitewide sediments (i.e., stream and storm sewer sediments). Benzo(a)anthracene (3.3 mg/kg), benzo(a)pyrene (3.9 mg/kg), benzo(b)fluoranthene (5.1 mg/kg), benzo(k)fluoranthene (2.8 mg/kg), dibenzo(a,h)anthracene (1.1 mg/kg), cadmium (1.2 mg/kg), chromium (53.3 mg/kg), lead (185 mg/kg), and vanadium (41.9 mg/kg) were detected at concentrations exceeding their associated screening criterion. Sitewide Pipeline Sediments: Contaminants detected in the pipeline sediments (i.e., sediments from catch basins near tanks) included volatiles, semivolatiles, pesticides, PCBs, inorganics and TPH. Benzo(a)anthracene (3.5 mg/kg), benzo(a)pyrene (3.8 mg/kg), benzo(b)fluoranthene (4.3 mg/kg), benzo(k)fluoranthene (3.1 mg/kg), dibenzo(a,h)anthracene (1.1 mg/kg), Aroclor-1260 (5.2 mg/kg), dieldrin (0.039 mg/kg), cadmium (2.2 mg/kg), chromium (27.7 mg/kg), lead (7,340 mg/kg), thallium (1.6 mg/kg), and vanadium (40.5 mg/kg) were detected at concentrations exceeding their associated screening criterion. Fuel Pipeline: Eight of 80 samples had TPH concentrations that were in excess of screening criterion.

TABLE 2-23

SUMMARY OF FINDINGS FOR SITE 23 - FUEL FARM
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination (Continued)	Tank Area Soil: TPH concentrations detected around OT-4 (9,860 mg/kg) exceeded the TPH screening criterion. Tank Area Groundwater: TPH concentrations detected at OT-1 (17,300 µg/L), OT-2 (5,400 µg/L), OT-3 (17,800 µg/L), OT-4 (120,000 µg/L), OT-8 (4,920,000 µg/L) and OT-9 (900 µg/L) exceeded the TPH screening criteria. The benzene (828 µg/L) concentration detected at OT-2 exceeded the screening criteria. Concentrations of phenanthrene (180 µg/L) and several inorganics were detected at OT-4 at levels exceeding their respective screening criterion. Free product was observed near OT-8 in well MW-7 at a thickness of 1.66 feet. BGOURI Groundwater: VOCs and SVOCs were detected infrequently in the groundwater samples collected during the BGOURI. Xylenes (5 µg/L) and naphthalene (1.4 µg/L) were detected in one well. PCE was detected in another well at a concentration of 3 µg/L. Metals were detected frequently in the groundwater samples, but the detections are likely related to the fill material used to construct the Fuel Farm. Lead was detected at a significant concentration (31.2 µg/L).
Recommended Remedial Alternative	Tanks OT-1 through OT-9 have been closed in place. Remediation of free product and contaminated soil was completed at Site 23 under the RCRA UST closure program. NFA is recommended for the soil at Site 23. The Lower Subase fuel pipelines were evaluated in the Lower Subase RI and will be addressed in the FSs for each zone. A new storm sewer system was designed and installed at Site 23. The Navy initiated a sampling program for the deep groundwater collection system after construction activities were completed. The groundwater associated with Site 23 was further characterized during the BGOURI, and no significant contamination was found. The RI recommended postponing any decisions on the groundwater at Site 23 until a sufficient amount of data are available from the groundwater collection system monitoring program to properly characterize the groundwater. A decision for further action for the groundwater will be determined in the future.

TABLE 2-24

SUMMARY OF FINDINGS FOR SITE 24 - LOWER SUBASE - CENTRAL PAINT ACCUMULATION AREA (BUILDING 174)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine by investigation if there is a potential for the existence of contamination due to past practices at the site that may pose a threat, or potential threat, to public health, welfare or the environment.
Potential Source of Contamination	Accumulated paint.
Analytical Parameters	TtNUS, Lower Subase RI (1999b) Soil: TCL volatiles and semivolatiles TAL metals SPLP metals TPH Groundwater: TCL volatiles and semivolatiles TAL metals TPH Natural attenuation parameters Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous parameters Thames River Surface Water: Miscellaneous water quality parameters
Nature and Extent of Contamination	Soil: TPH and SVOCs, primarily PAHs, were the primary contaminants detected in this area. The maximum concentration of TPH (4,000 mg/kg) was detected in a shallow soil sample. The maximum detected concentration of a SVOC was 1,000 µg/kg (pyrene). Several inorganics were also identified as COCs. Groundwater: Inorganics (antimony, barium, thallium) were detected in groundwater at significant levels. Four SVOCs were detected at low concentrations in the groundwater. Thames River Sediment: SVOCs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene and phenol were detected at maximum concentrations (750 and 72 µg/kg, respectively) greater than ecological criteria. The maximum concentrations of barium, copper, and mercury (64.7, 121, and 0.32 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines.

TABLE 2-24

SUMMARY OF FINDINGS FOR SITE 24 - LOWER SUBASE - CENTRAL PAINT ACCUMULATION AREA (BUILDING 174)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination (Continued)	Thames River Surface Water: Dissolved oxygen ranged from 7.5 to 8.8 mg/L, pH ranged from 7.6 to 7.9, and salinity ranged from 23.8 to 28.1 ppt in the Thames River.
Recommended Remedial Alternative	The Lower Subase RI recommended that this site proceed to a FS to evaluate appropriate remedial alternatives for the soil and groundwater. Passive or in-situ remedial alternatives and institutional controls should be evaluated for the soil. A tiered groundwater monitoring program and cleaning and repair of the storm sewer system should also be evaluated during the FS. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. An FS for Zone 6 soil and groundwater is currently being prepared.

TABLE 2-25

SUMMARY OF FINDINGS FOR SITE 25 - LOWER SUBASE - CLASSIFIED MATERIALS INCINERATOR
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Objective	Determine by investigation if there is a potential for the existence of contamination due to past practices at the site that may pose a threat, or potential threat, to public health, welfare, or the environment.
Source of Contamination	Former incinerator.
Analytical Parameters	Atlantic, Final Site Inspection Report (1995a) Soil: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence Dioxin Other TCLP metals Sediments: TCL organics (volatiles, semivolatiles, pesticides/PCBs) TAL inorganics TPH Fluorescence Other TCLP metals Groundwater: TCL organics (volatiles, semivolatiles pesticides/PCBs) TAL inorganics TPH Fluorescence Other TCLP metals TtNUS, Lower Subase RI (1999b) Soil: TCL semivolatiles TAL metals SPLP Lead TPH Groundwater: TCL semivolatiles TAL metals TPH Natural attenuation parameters Thames River Sediment: TCL semivolatiles TAL metals AVS/SEM Miscellaneous Parameters Thames River Surface Water: Miscellaneous water quality parameters

TABLE 2-25

SUMMARY OF FINDINGS FOR SITE 25 - LOWER SUBASE - CLASSIFIED MATERIALS INCINERATOR
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Nature and Extent of Contamination	Soil: Concentrations of TPH detected across the site, particularly northwest of Building 157. Maximum detected TPH concentration was 2,600 mg/kg. Several SVOCs, primarily PAHs, were detected in shallow and deep soil. Elevated concentrations of inorganics were detected across the site. Detected concentrations of lead ranged from 1.6 to 189,000 mg/kg. Groundwater: Low VOC concentrations detected in groundwater samples (0.6 µg/L to 2 µg/L). No TPH detected in groundwater samples. High lead concentrations up to a maximum value of 117 µg/L (total). Maximum concentration of lead in filtered sample was 97.5 µg/L Sediments: TPH concentrations up to 1,300 mg/kg detected in Berth-16 storm sewer sediment. Inorganics also detected in sediment samples. Thames River Sediment: SVOCs and metals were detected frequently in sediment samples from the Thames River. Benzo(a)pyrene was detected at a maximum concentration (630 µg/kg) greater than the ecological criterion. The maximum concentrations of barium, copper, and mercury (57.8, 126, and 0.52 mg/kg, respectively) resulted in the highest HQs when compared to ecological guidelines. Thames River Surface Water: Dissolved oxygen ranged from 7.3 to 10.1 mg/L, pH ranged from 7.8 to 7.9, and salinity ranged from 25.6 to 29.0 ppt in the Thames River.

TABLE 2-25

SUMMARY OF FINDINGS FOR SITE 25 - LOWER SUBASE - CLASSIFIED MATERIALS INCINERATOR
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Recommended Remedial Alternative	The Lower Subase RI recommended that Zone 7 proceed to an FS to evaluate appropriate remedial alternatives for the soil and groundwater. The RI also recommended that "hot spot" removal actions for lead, institutional controls, and passive or in-situ remedial alternatives should be evaluated for soil in the FS and that a tiered groundwater monitoring program and cleaning and repair of storm sewer system should also be evaluated in the FS. The ERA for the Thames River adjacent to Zone 7 concluded that the risks to ecological receptors were low to moderate. The RI recommended additional characterization of the sediment in the Thames River to provide the data necessary to refine the ERA prior to proceeding to an FS. The Navy cleaned the Lower Subase storm sewer catch basins in August 2000. The storm sewer lines were not surveyed or repaired during the effort. Additional investigation of the Thames River adjacent to Zone 7 is currently being completed to further refine the ERA. The FS for Zone 7 soil and groundwater and Thames River sediment will be finalized after the additional investigation is completed.

3.0 REGULATORY PROCESS ACTIVITIES

Beginning in 1980, investigations of the NSB-NLON hazardous waste sites were conducted under the Department of NACIP Program. Since 1986, investigations at NSB-NLON have been conducted under the DOD IR Program. Funding to pay for such investigations is allocated for DOD sites under the Defense Environmental Restoration Account (DERA).

An FFA for NSB-NLON was completed in January 1995 between the EPA, the State of Connecticut, and the Navy. This agreement was entered to accomplish the following:

- Ensure that the environmental impacts associated with the past and present activities at NSB-NLON are thoroughly investigated and that the appropriate remedial action is taken as necessary to protect human health and the environment.

- Establish a procedural framework and timetable for developing, implementing, and monitoring appropriate response actions at NSB-NLON in accordance with CERCLA as amended by the 1986 Superfund Amendments and Reauthorization Act (SARA) and the 1984 Hazardous and Solid Waste Amendments (HSWA).

- Provide for the O&M of any RA selected and implemented pursuant to the FFA.

- Provide for the appropriate State involvement in the initiation, development, selection, and enforcement of RAs to be undertaken at the NSB-NLON.

- Identify removal actions that are appropriate for the NSB-NLON.

The IR Program parallels CERCLA, otherwise known as Superfund. Under the Superfund program, abandoned waste sites that potentially contain hazardous constituents undergo several phases of environmental investigation that ultimately determine the need for a remedy, and if necessary, the selection and implementation of the remedy for the site. The phases of investigation under CERCLA include the Preliminary Assessment (PA)/SI, RI, FS, ROD, RD/RA, O&M of in place remedies, and Five-Year Reviews. The process required by the FFA follows the IR Program, and is analogous to CERCLA with one exception: the PA/SI is replaced by the Site Screening Process (SSP). Superfund also has provisions for Interim Measures that can be implemented if a site poses an immediate threat to the environment.

3.1 CERCLA PROCESS ACTIVITIES

3.1.1 Preliminary Assessment/Site Investigation and Site Screening Process

The initial study conducted under CERCLA at a site in response to a real or suspected hazardous substance release is the PA/SI. The PA/SI is usually conducted by EPA or an authorized state agency. The PA/SI relies heavily on existing information and is limited in scope. If the PA/SI identifies sites or study areas as potentially posing a threat to human health or the environment, a RI/FS is conducted.

The SSP is the FFA's alternative to the PA/SI process. The SSP is the mechanism for evaluating whether identified Site Screening Areas (SSAs) should proceed with an RI/FS. SSAs refer to areas not previously identified that may pose a threat, or potential threat, to public health, welfare or the environment.

The SSP considers current CERCLA guidance to determine whether there have been releases of hazardous substances, pollutants, or contaminants, to the environment from the SSAs. The SSP Report provides the basis for determining whether an RI/FS is performed or the site is removed from the program. Those SSAs that require an RI/FS become AOCs. AOCs are areas at the site where hazardous substances, pollutants, or contaminants are or may have been placed or eventually will be located.

3.1.2 Remedial Investigation/Feasibility Study

The RI/FS is the next phase of the CERCLA remedial process and is required for all AOCs. The RI is intended to determine the nature and extent of contamination, potential migration pathways, toxicity and persistence of contaminants, and potential (risk) for adverse impacts to human health or the environment. The FS is intended to develop remedial objectives, identify Applicable or Relevant and Appropriate Requirements (ARARs), develop and screen remedial alternatives, analyze remedial alternatives, and recommend the alternative(s) that best meets the CERCLA criteria (protection of human health and the environment; compliance with ARARS; reduction of toxicity, mobility, or volume through treatment; short-term effectiveness; long-term effectiveness; implementability; cost; state acceptance; and community acceptance). CERCLA does not provide specific requirements for concentration limits or groundwater monitoring.

After completion of the RI/FS, a Proposed Plan is completed prior to the beginning of the formal public comment period. Subsequently, a ROD that identifies the preferred remedial alternative(s) is issued by the Navy and EPA.

3.1.3 Removal Action

A removal action may be completed prior to or during the RI/FS to reduce the threat to human health or the environment by removing released hazardous substances or reducing potential exposure pathways. TCRAs are implemented when there is an imminent threat to human health or the environment. NTCRAs may be delayed 6 months or more, based on the reduced threat to human health of the environment.

To enable the selection of the best remedial alternative for NTCRAs, an EE/CA is prepared. Unlike the FS, the EE/CA focuses only on the material to be removed and does not use the full CERCLA criteria. An Action Memorandum is completed prior to a formal public comment period.

Subsequent to a removal action, the RI/FS may conclude that NFA is required to reduce the threat to human health and the environment. In this case, an NFA ROD would be issued, and the CERCLA remedial process would be concluded.

3.1.4 Interim Remedial Actions

An interim RA may be completed prior to or during the RI/FS to reduce the threat to human health or the environment by removing released hazardous substances or reducing potential exposure pathways. To facilitate selection of the best remedial alternative for an interim RA, an FFS is prepared. An interim ROD is issued, and interim RD and RA activities are initiated. After implementation of the interim RA, the FS may conclude that NFA is required to reduce the threat to human health and the environment. In this case, an NFA ROD would be issued, and the CERCLA remedial process would be concluded.

3.1.5 Remedial Design/Remedial Action

The ROD establishes the scope and schedule for the development of the RD and RA. The RD often proceeds in a stepped process (30, 60, and 100 percent complete) and addresses detailed design issues not addressed during the FS. The RA involves implementation of the RD.

3.1.6 Post Remedial Action Documents

Following the implementation of a RA, depending on the RA implemented, the waste or source at the site will either be contained (e.g., cap system), undergoing some type of remedial process (e.g., AS/SVE), or be removed (e.g., excavation and disposal of contaminated material/source). In each situation, Post RA documents are required.

In situation where the RA removes the waste or source at the site in its entirety, the post RA documents will report the verification sampling that demonstrates the removal of the contaminated media and source

areas. These documents would then be followed by an NFA ROD that would be issued to conclude the CERCLA remedial process for that site.

In situations where the RA includes a containment or treatment design, O&M and monitoring program will need to be implemented. The O&M program identifies the periodic inspection schedules and required maintenance procedures for the implemented RDs. The monitoring program will identify sampling locations and sampling frequencies that assess the effectiveness of the implemented RD. O&M and monitoring program reports are prepared each time an activity is performed at a site with an in-place RA. These reports, prepared by the Navy or their representative, are provided to the EPA and State for their review. The purpose of these reports is to describe the performance requirements of the implemented RA, provide direction on maintaining the implemented RA, and ensure the implemented RA is performing as intended.

3.1.7 Five Year Reviews

The Five-Year Reviews are periodic reviews of the data generated by the O&M and monitoring program. In accordance with the FFA, if a selected RA results in any hazardous substance, pollutants or contaminants remaining at the site, the parties (Navy, EPA, and State) shall review each such RA at least every 5 years after the initiation of the selected final RA at the site to assure that human health and the environment are being protected by the RA implemented.

In cases where the Five-Year Reviews indicate that a change in RA is required, the data generated from the monitoring program along with historical RI/FS data would be used in an FS that would evaluate potential alternative remedial approaches, and a new RA would be selected. In cases where the Five-Year Reviews indicate that the implemented RA has achieved cleanup requirements, an NFA ROD would be issued, and the CERCLA remedial process would be concluded. Lastly, if cleanup requirements are not met and the RA is performing as expected, the Five-Year Review will conclude that the implemented RA and associated O&M and monitoring programs should continue and be re-evaluated in another 5 years.

4.0 SITE RANKING

This section provides a summary of the relative risk ranking procedure. A detailed description of this procedure can be found in the Relative Risk Site Evaluation Primer, Revised Edition (DOD, 1996). A summary of relative ranking results for each site at NSB-NLON is also provided in this section. Results of the risk ranking procedure are intended to assist in prioritizing site cleanups.

4.1 REQUIREMENTS FOR RELATIVE RISK SITE EVALUATIONS

Relative Risk Site Evaluations are required for all sites at active military installations, BRAC installations, and formerly used defense properties with future funding requirements that are not classified as (1) RIP, (2) RC, (3) lacking sufficient information, or (4) abandoned ordnance. Relative Risk Site Evaluations were performed for 18 of the 25 sites at NSB-NLON. Because of recent remedial/removal actions that were completed at NSB-NLON under the IR Program, 11 sites now fall into the categories of RIP or RC. Site 2, Site 6, and Site 8 fall into the RIP category. Site 1, Sites 3 A and B, Site 4, Site 9, Site 14, Site 15, and Site 20 fall into the RC category. Relative Risk Site Evaluations were not performed for these seven sites. More detailed descriptions of the RIP and RC categories are provided below.

Relative Risk Site Evaluations are not required for sites classified as having all RIP even though they may be in remedial action operation (RAO) or long-term monitoring (LTM). A RIP determination requires that RA construction is complete for a site.

Relative Risk Site Evaluations are not required for sites classified as RC. Sites classified as RC are those for which a DOD component deems that NFA is required, with the possible exception of LTM. An RC determination requires that one of the following apply: (1) there is no evidence that contaminants were released at the site, (2) no contaminants were detected at the site other than at background concentrations, (3) contaminants attributable to the site are less than action levels used for risk screening, (4) the results of a baseline risk assessment demonstrate that cumulative risks posed by the site are less than established thresholds, or (5) removal and/or remedial action operations (RAOs) at a site have been implemented, completed, and are the final action for the site. Based upon one of these designations, only LTM remains for a site.

4.2 RELATIVE RISK SITE EVALUATION FRAMEWORK

The DOD has developed a Relative Risk Site Evaluation framework as a means of categorizing sites in the Defense Environmental Restoration Program (DERP) into High, Medium, and Low relative risk groups. The ranking of sites is not a substitute for a baseline human health risk assessment nor is it a

means of placing sites into a NFA category. The categorization of sites into relative risk groups is based on an evaluation of contaminants, pathways, and human and ecological receptors for groundwater, surface water, sediment, and surface soils. The air medium is not considered. Each of these environmental media is evaluated using three factors:

1. The Contaminant Hazard Factor (CHF)
2. The Migration Pathway Factor (MPF)
3. The Receptor Factor (RF)

The CHF is a combined measure of contaminant concentrations in a given environmental medium. CHF ratings are either "significant," "moderate," or "minimal" for each medium. A CHF rating is determined based on the ratio of the maximum concentration of a contaminant in each media (groundwater, surface water, sediment, and surface soil) to a risk-based concentration standard for that contaminant (Media Protection Standard or Preliminary Remediation Goal). For media containing more than one contaminant, the ratios are added.

The MPF is a measure of the movement or potential movement of contamination away from the original source. MPF ratings are either "evident," "potential," or "confined" for each medium. A rating of "evident" means that analytical data or observable evidence indicates that contamination in the medium is present at, is moving towards, or has moved to a point of exposure. A rating of "potential" indicates that contamination has moved only slightly beyond the source, could move but is not moving appreciably, or information is not sufficient to make a determination of "evident" or "confined." A rating of "confined" indicates a low possibility for contamination to be present at or migrating from the source to a point of exposure.

The RF is an indication of the potential for human or ecological contact with site contaminants. RF ratings are either "identified," "potential," or "limited" for each media. A rating of "identified" indicates that receptors with access to contaminated media have been identified. A rating of "potential" indicates a potential for receptors to have access to contaminated media. A rating of "limited" indicates that there is little or no potential for receptors to have access to contaminated media.

Sites lacking reliable concentration data will be designated as "not evaluated." Actions on these sites may be deferred, or the sites may be programmed for additional data collection. In addition, removal action or another response action may be appropriate.

Upon determination of the CHF, MPF, and RF, a decision matrix is used to determine the category of relative risk for each medium. Relative risk categories are High, Medium, and Low. The highest rating

resulting from the evaluation of the three media becomes the relative risk category of the site. A site's rating may change based on new or additional information or as a result of remediation activities.

4.3 SUMMARY OF SITE RISK RANKING FOR NSB-NLON

The results of the Relative Risk Site Evaluation are used, in conjunction with other risk management concerns, to assist in the sequencing of remedial work. A site having a relative risk rating of “High” is given more priority than a site with a relative risk rating of “Low.” A summary of relative risk ranking results for the applicable NSB-NLON sites is shown on Table 4-1 (Refer to the SMP dated March 1999 for a summary of the Relative Risk Site Evaluation Concept and for the Relative Risk Site Evaluation Worksheets.

TABLE 4-1

RELATIVE RISK RANKING RESULTS
2004 SITE MANAGMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

Site	Name	Rank
1	CBU Drum Storage Area	NA(1)
2	Area A Landfill and Area A Wetland	NA(2) High(3)
3	Area A Downstream Watercourses/OBDA Pond and OBDA Debris	NA(1) NA(1)
4	Rubble Fill Area at Bunker A-86	NA(1)
6	DRMO	NA(2)
7	Torpedo Shops	Medium
8	Goss Cove Landfill	NA(2)
9	Oily Wastewater Tank (OT-5)	NA(1)
10	Lower Subase-Fuel Storage Tanks and Tank 54-H	High
11	Lower Subase-Power Plant Oil Tanks	High
13	Lower Subase-Building 79 Waste Oil Pit	High
14	OBDANE	NA(1)
15	SASDA	NA(1)
16	Hospital Incinerators	Low
17	Lower Subase-Hazardous Materials/Solvent Storage Area (Building 31)	Medium
18	Solvent Storage Area (Building 33)	Medium
19	Lower Subase-Solvent Storage Area (Building 316)	Low
20	Area A Weapons Center	NA(1)
21	Lower Subase-Berth 16	High
22	Lower Subase-Pier 33	High
23	Fuel Farm	High
24	Lower Subase-Central Paint Accumulation Area (Building 174)	Low
25	Lower Subase-Classified Materials Incinerator	Medium

1 NA = Response Complete
2 NA = Remedies In Place
3 Only one risk ranking evaluation spreadsheet was developed for Site 2. The data used for the risk ranking includes soil and groundwater data for the Area A Landfill and surface water and sediment data from the Area A Wetland.

5.0 SCHEDULE

A schedule of milestones and a detailed schedule that covers all active IR Program sites in the SMP are attached as Appendix A. The schedules for historical CERCLA activities at the sites have generally been removed from the schedule and only future events are presented in the schedule.

5.1 SCHEDULE DEVELOPMENT

The schedules were developed using the current status of activity for each site at NSB-NLON, anticipated activities, and projected funding availability. Line item durations were typically developed using the FFA, which provides durations for specific process activities.

In some cases, due to requests from regulators, accelerated durations were used for scheduling. The "deliverables" required during the remedial process are separated into two categories: primary and secondary. A description of each of these deliverables is provided below.

5.1.1 Primary Documents

According to the FFA, Primary Documents are developed by the Navy and initially submitted as a draft. The draft Primary Documents are subject to review by the EPA, CTDEP, and the Restoration Advisory Board (RAB).

Following the Navy response to and resolution of EPA, CTDEP, and RAB comments on draft Primary Documents, a draft final version Primary Document is prepared. Following a regulator concurrence period, the final Primary Document is prepared and issued. Primary Documents include the following:

- Final Plan of Action for IR - August 1989
- Phase I RI Report - August 1992
- Scope of Work for RI/FS
- SIAS
- PA
- Study Area Screening Evaluation Report

- RI/FS Work Plan (and any RI/FS Work Plan addenda for subsequent phases)
- Phase I RI Report (Including sampling and date results, risk assessment, and preliminary analysis of alternatives)
- Phase II RI Work Plan
- Phase II RI Report (Including sampling and date results, risk assessment, and preliminary analysis of alternatives)
- RI/FS Report (including treatability and pilot studies, initial screening of alternatives, detailed analysis of alternatives, and risk assessment addendum, if warranted by the scope of the RI)
- Proposed Plans and RODs
- Scope of Work for RD/RA
- RD Work Plan
- Sixty percent (60 percent) RD [including Quality Assurance/Quality Control (QA/QC) and Contingency Plans]
- Final RD (including RA Work Plan and Final Construction QA/QC Project Plan)
- Project Closeout Report
- Five-Year Reviews

5.1.2 Secondary Documents

Secondary Documents include those documents that are discrete portions of Primary Documents and are typically input or feeder documents. Secondary Documents are issued by the Navy in draft and are subject to review and comment by EPA and CTDEP. Although the Navy will respond to comments received, the draft Secondary Documents may be finalized in the context of the corresponding draft final Primary Documents. Secondary Documents include the following:

- Study Area Screening Evaluation Work Plan
- Initial Screening of Alternatives
- Detailed Analysis of Alternatives
- Treatability and Pilot Study Work Plans (if warranted by the scope of the RI/FS)
- Treatability and/or Pilot Studies (if warranted by the scope of the RI/FS)
- Sampling and Data Results
- RA Work Plan
- Pre-Final RD (85 percent)

5.1.3 Durations

The FFA (EPA, 1995) defines review, response, and revision time frames for Primary and Secondary documents as follows:

- EPA/State review of draft Secondary and Primary Documents - 60 days

- Navy review and response to EPA/State comments of draft Primary and Secondary Documents - 45 days

- Meeting(s) held to informally dispute any unresolved issues regarding draft Primary Documents or to discuss any unresolved issues regarding draft Secondary Documents; Navy submittal of draft final Primary and Secondary Documents - 45 days

- EPA/State submit Letter of Concurrence with draft final Primary Document or invoke Formal Dispute Resolution in accordance with Section XIII (Dispute Resolution) - 30 days

- Navy issuance of final Primary Document after Navy submittal of draft final Primary Document pursuant to Section 7.6 (e) (3) - 60 days

- Navy issuance of final Primary Document that conforms to the results of Dispute Resolution - 45 days

The FFA provides a provision to extend a timetable, deadline, or schedule for good cause.

The SMP is reviewed and revised as necessary each year. The review cycle is as follows:

- Discussion (90 days) of budget with EPA/CTDEP, Natural Resources Trustee, and community members; amended SMP submitted by April 30th of the following year.
- 30-day review and comment period.
- 30-day respond to comment period.

6.0 NSB-NLON CLEANUP TEAM

The names, addresses, and responsibilities of the cleanup team are as follows:

PROJECT MANAGERS:

Mr. Mark Evans
Remedial Project Manager
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Engineering Field Activity Northeast
10 Industrial Highway
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Naval Submarine Base – New London
Environmental Department – Box 39
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Ms. Kymberlee Keckler
Remedial Project Manager
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Mr. Mark Lewis
Environmental Analyst 3
Conneticut Department of Environmental Protection
Eastern District Remediation Program
Planning & Standards Division
Bureau of Water Management
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RESTORATION ADVISORY BOARD COMMUNITY MEMBERS:

Mrs. Deborah Motycka Downie (Co-Chairman)
5 Back Acres Way
Stonington, CT 06378

Ms. Susan Orrill
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Mr. Larry H. Gibson
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Gales Ferry, CT 06335

Mr. Noah Levine
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Ledgelight Health District
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ATSDR
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Ms. Pamela Kilbey-Fox
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Mr. Arthur Cohen
Director of Health
Uncas Health District
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Norwich, CT 06360

Mr. Thomas Wagner
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Mr. L.J. Chmura
Groton City Conservation Commission
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Mr. Andrew Stackpole
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Ms. Mary Ann Simmons
Environmental Programs
Navy Environmental Health Center
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7.0 ADMINISTRATIVE RECORD INDEX

Appendix B presents the Administrative Record Index. The index is a chronological listing of NSB-NLON-specific documents generated under the IR Program at NSB-NLON.

8.0 FIGURES

NUMBER

8-1 Facility Location Map
8-2 Site Location Map
8-3 Site Map, Site 1 - CBU Drum Storage Area
8-4 Site Map, Site 2 - Area A Landfill
8-5 Site Map, Site 2 - Area A Wetland
8-6 Site Map, Site 3 - Area A Downstream Watercourses/OBDA
8-7 Site Map, Site 4 - Rubble Fill Area At Bunker A-86
8-8 Site Map, Site 6 - DRMO
8-9 Site Map, Site 7 - Torpedo Shops
8-10 Site Map, Site 8 - Goss Cove Landfill
8-11 Site Map, Site 9 - OT-5
8-12 Site Map, Site 10 - Fuel Storage Tanks and Tank 54-H and Site 11 - Power Plant Oil Tanks
8-13 Site Map, Site 13 - Building 79 Waste Oil Pit and Site 19 - Solvent Storage Area (Building 316)
8-14 Site Map, Site 14 - OBDANE
8-15 Site Map, Site 15 - Spent Acid Storage and Disposal Area
8-16 Site Map, Site 16 - Hospital Incinerators
8-17 Site Map, Site 17 - Hazardous Materials/Solvent Storage Area (Building 31) and Quay Wall Study Area
8-18 Site Map, Areas of Remediation at Site 17
8-19 Site Map, Site 18 - Solvent Storage Area (Building 33)
8-20 Site Map, Site 20 - Area A Weapons Center
8-21 Site Map, Site 21 - Berth 16 and Site 25 - Classified Material Incinerator
8-22 Site Map, Site 22 - Pier 33
8-23 Site Map, Site 23 - Fuel Farm
8-24 Site Map, Site 24 - Central Paint Accumulation Area (Building 174)

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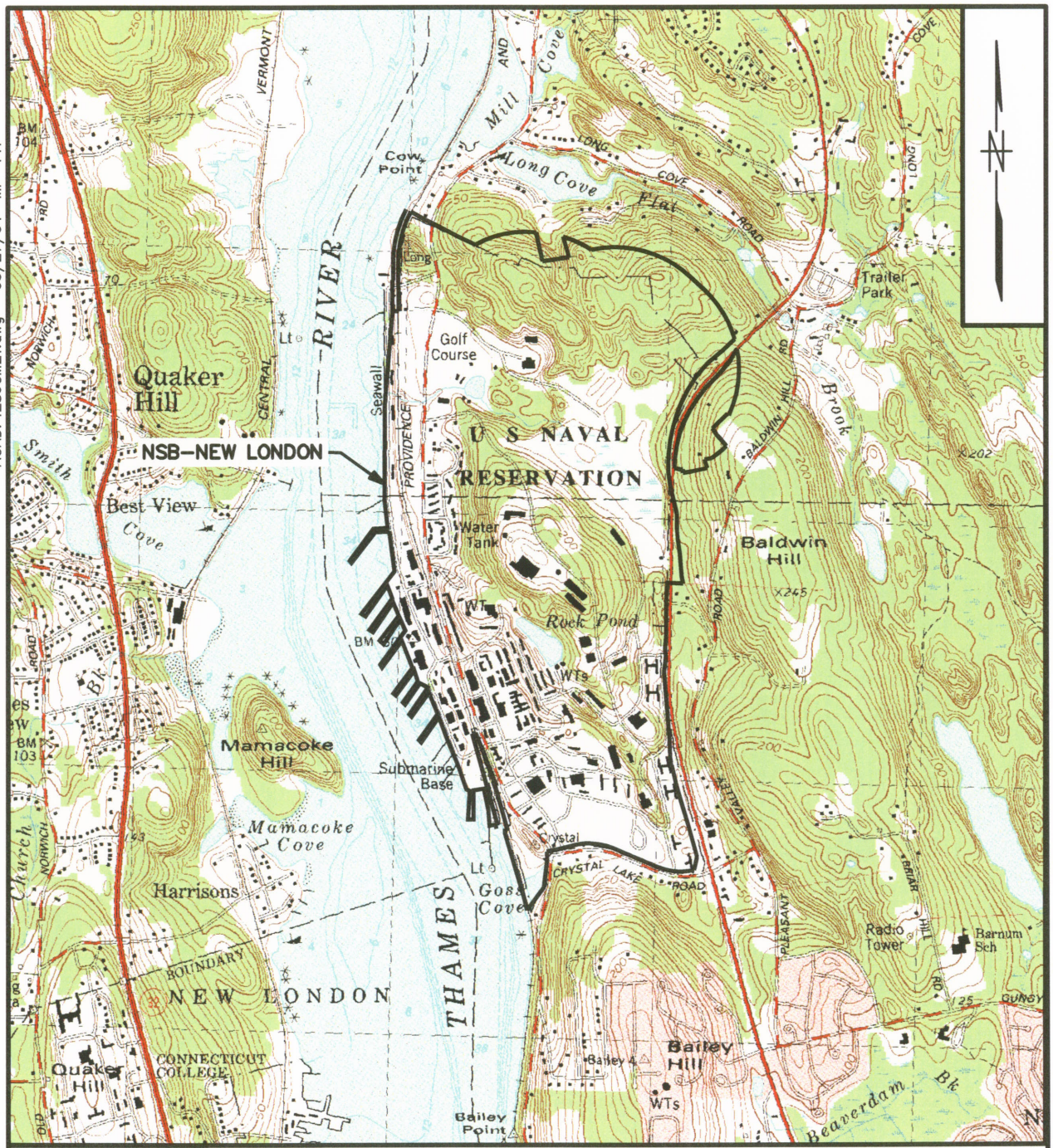

SOURCE: QUADRANGLE MAP UNCASVILLE, CONNECTICUT 1984.

DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	FACILITY LOCATION MAP 2004 SITE MANAGEMENT PLAN NSB-NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/3/04
COST/SCHED-AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8-1	REV. 0

FORM CADD NO. TtNUS_AV.DWG – REV 0 – 1/22/98

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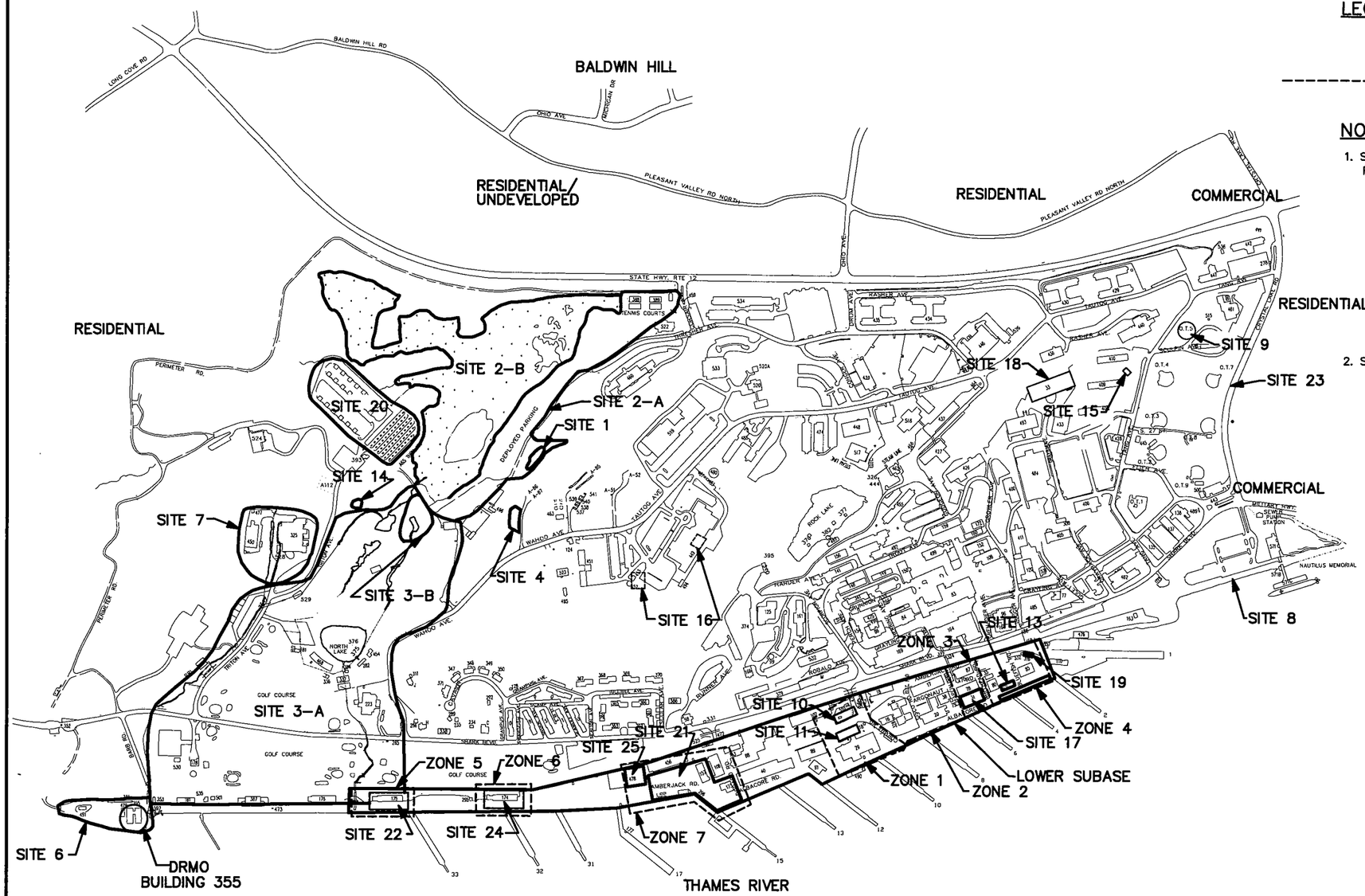


LEGEND:

-------- LOWER SUBASE REMEDIAL INVESTIGATION ZONE BOUNDARY

NOTES:

1. SITE AND STUDY AREA LOCATIONS WERE TAKEN FROM THE FOLLOWING REPORTS:
   - FEDERAL FACILITY AGREEMENT UNDER CERCLA 120, NAVAL SUBMARINE BASE, NEW LONDON, CONNECTICUT
   - FINAL INITIAL ASSESSMENT STUDY (ENVIRODYNE, MARCH 1983)
   - HYDROGEOLOGIC INVESTIGATION UNDERGROUND STORAGE TANKS OT-4, OT-7, OT-8, OT-9, AND 54-H (FUSS & O'NEILL, SEPTEMBER 1989)
   - PHASE I REMEDIAL INVESTIGATION (ATLANTIC, AUGUST 1992)
   - SITE CHARACTERIZATION REPORT FOR OT-10, BUILDING 325, AND BUILDING 89 (HNUS, APRIL 1995)
   - DRAFT FINAL SUPPLEMENT TO INITIAL ASSESSMENT STUDY (NAVAL FACILITIES ENGINEERING SERVICE CENTER, APRIL 1995)
   - REMOVAL SITE EVALUATION FOR QUAY WALL (HNUS, MAY 1995)
2. SITE AND STUDY AREA BOUNDRIES ARE APPROXIMATE.

SITE 1 – CONSTRUCTION BATTALION UNIT (CBU) DRUM STORAGE AREA
SITE 2 – (A) AREA A LANDFILL AND (B) AREA A WETLAND
SITE 3 – (A) AREA A DOWNSTREAM WATER COURSES AND (B) OVERBANK DISPOSAL AREA (OBDA)
SITE 4 – RUBBLE FILL AREA AT BUNKER A-86
SITE 6 – DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)
SITE 7 – TORPEDO SHOPS
SITE 8 – GOSS COVE LANDFILL
SITE 9 – OILY WASTEWATER TANK (OT-5)
SITE 10 – LOWER SUBASE-FUEL STORAGE TANKS AND TANK 54-H
SITE 11 – LOWER SUBASE-POWER PLANT OIL TANKS
SITE 13 – LOWER SUBASE-BUILDING 79 WASTE OIL PIT
SITE 14 – OVERBANK DISPOSAL AREA NORTHEAST (OBDANE)
SITE 15 – SPENT ACID STORAGE AND DISPOSAL AREA (SASDA)
SITE 16 – HOSPITAL INCINERATORS
SITE 17 – HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31)
SITE 18 – SOLVENT STORAGE AREA (BUILDING 33)
SITE 19 – SOLVENT STORAGE AREA (BUILDING 36)
SITE 20 – AREA A WEAPONS CENTER
SITE 21 – BERTH 16
SITE 22 – PIER 33
SITE 23 – FUEL FARM
SITE 24 – CENTRAL PAINT ACCUMULATION AREA (BUILDING 174)
SITE 25 – LOWER SUBASE-CLASSIFIED MATERIALS INCINERATOR

0 800 1600
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

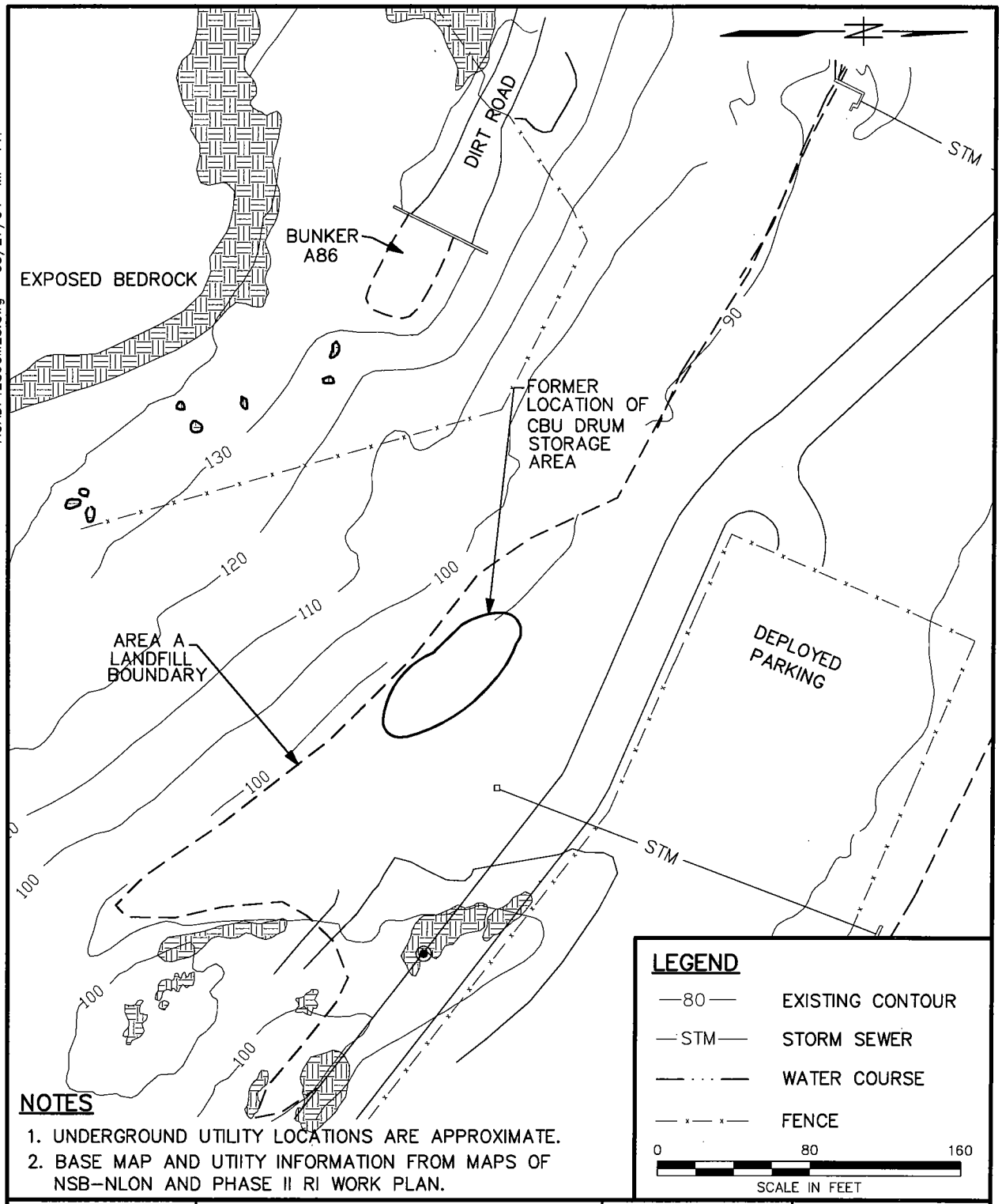
DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE LOCATION MAP
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/3/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-2
REV. 0

FORM CADD NO. T+NUS_BH.DGN - REV 0 - 1/20/98



NOTES

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
2. BASE MAP AND UTIITY INFORMATION FROM MAPS OF NSB-NLON AND PHASE II RI WORK PLAN.

DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE MAP SITE 1 – CBU DRUM STORAGE AREA 2004 SITE MANAGEMENT PLAN NSB-NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/3/04
COST/SCHED-AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8-3	REV. 0

FORM CADD NO. TtNUS_AV.DWG - REV 0 - 1/22/98

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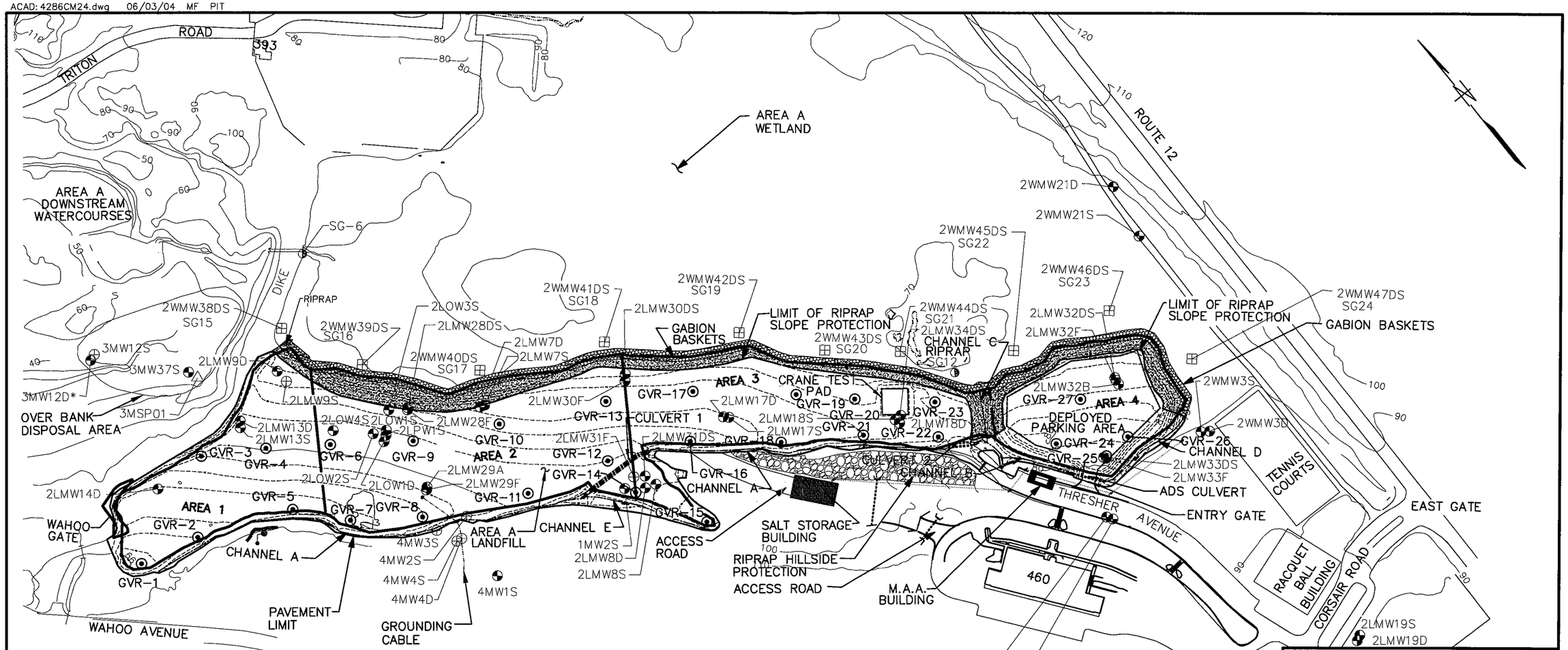
ACAD: 4286CM24.dwg 06/03/04 MF PIT



NOTES:

1. BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB-NLON AND PHASE II RI WORK PLAN (ATLANTIC, MAY 1993).
2. GAS VENT COORDINATE INFORMATION FROM SAI SURVEY CO. FOSTER WHEELER AS-BUILT REPORT 11-1-97.
3. * - WELL 3MW12D WAS REPLACED IN OCTOBER 2002.

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- STAFF GAUGE
- MONITORING WELL AND STAFF GAUGE
- SEEP SAMPLE
- GAS VENT

0 200 400
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 2 - AREA A LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-4
REV. 0

FORM CADD NO. SOUTH_BH.DGN - REV 0 - 02/11/97

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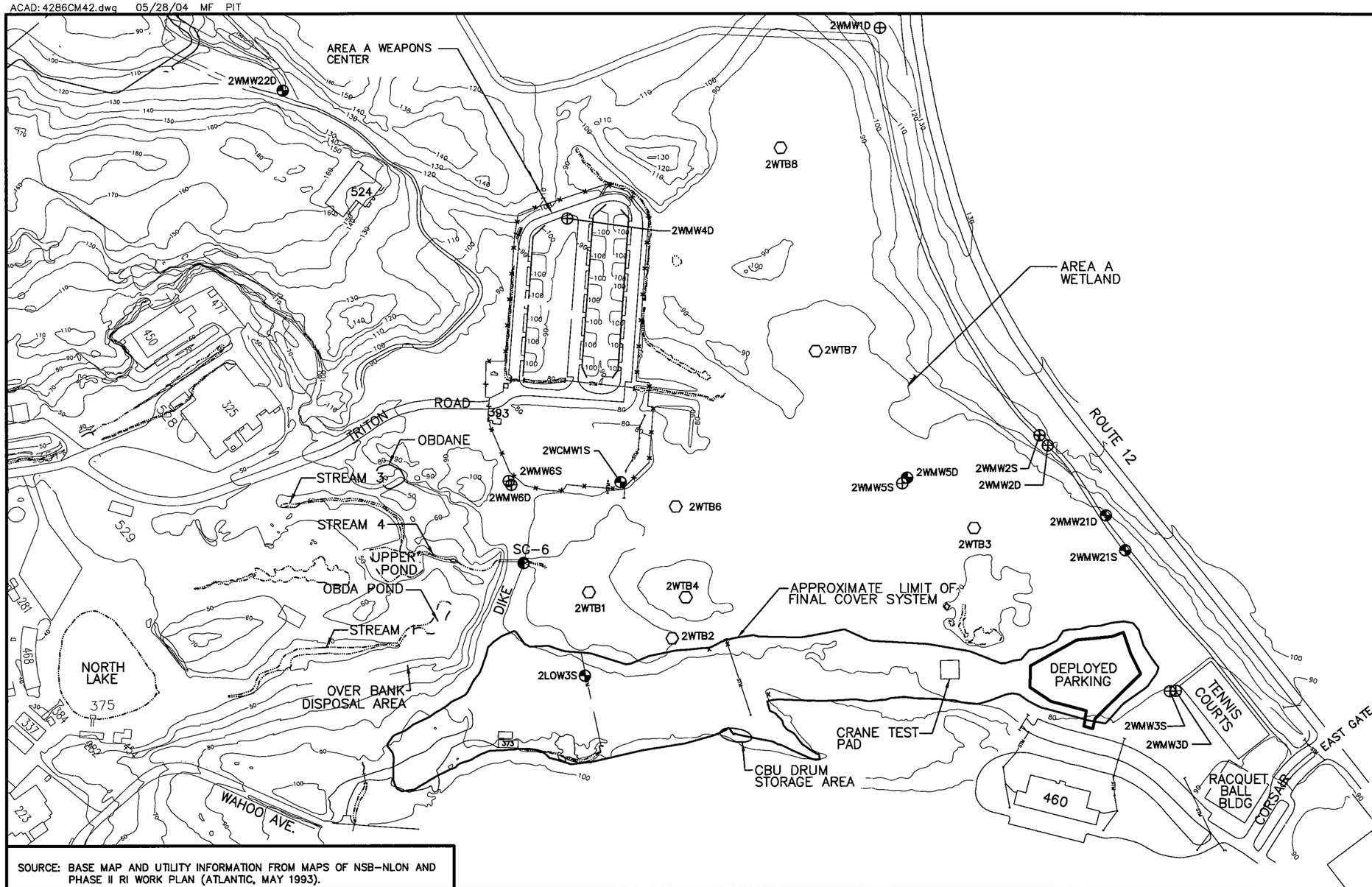

LEGEND:

⊕ 2WMW2S	PHASE I MONITORING WELL
◐ 2WMW21S	PHASE II MONITORING WELL
⬡ 2WTB3	PHASE I TEST BORING
◑ SG-6	PHASE II STAFF GAUGE
123	BUILDING NUMBER
—10—	EXISTING CONTOUR
—X—	FENCE
	WATERCOURSE
—STM—□	STORM SEWER AND CATCH BASIN

NOTE:

2WMW2S WAS NOT COMPLETED DUE TO A LACK OF GROUNDWATER. A SOIL SAMPLE WAS COLLECTED FROM THIS LOCATION.

0 300 600
SCALE IN FEET

SOURCE: BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB-NLON AND PHASE II RI WORK PLAN (ATLANTIC, MAY 1993).

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 2-AREA A WETLAND
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/3/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-5
REV. 0

FORM CADD NO. TtNUS_BH.DGN - REV 0 - 1/20/98

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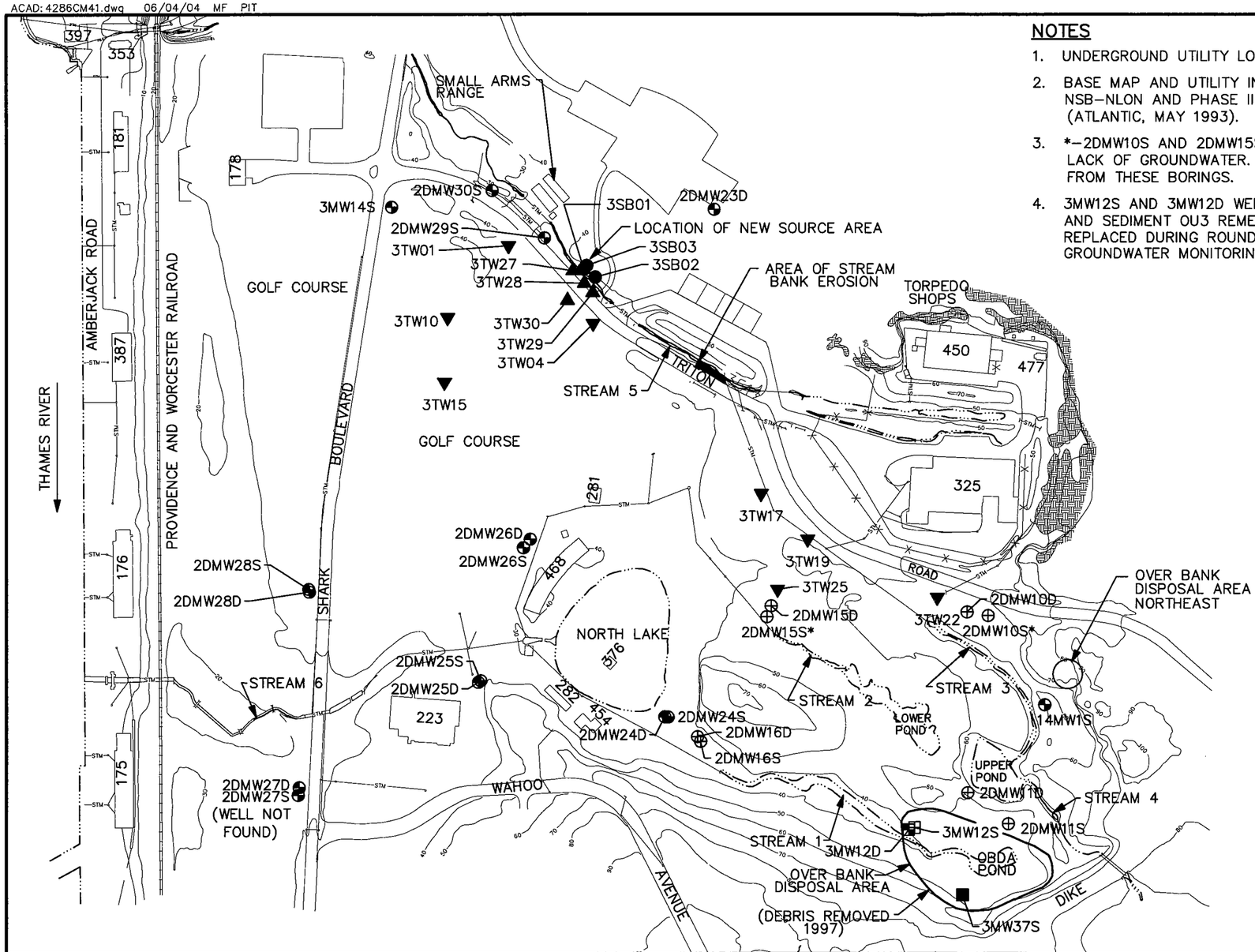


NOTES

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
2. BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB–NLON AND PHASE II RI WORK PLAN, (ATLANTIC, MAY 1993).
3. *–2DMW10S AND 2DMW15S WERE NOT COMPLETED DUE TO A LACK OF GROUNDWATER. SOIL SAMPLES WERE COLLECTED FROM THESE BORINGS.
4. 3MW12S AND 3MW12D WERE DESTROYED DURING THE SOIL AND SEDIMENT OU3 REMEDIAL ACTION. 3MW12D WAS SUBSEQUENTLY REPLACED DURING ROUND 11 (2002) OF THE AREA A LANDFILL GROUNDWATER MONITORING PROGRAM.

LEGEND

- 3MW37S — AREA A LANDFILL GROUNDWATER MONITORING PROGRAM MONITORING WELL
- 3TW1 — BGOURI TEMPORARY WELL
- 3TW27 — BGOURI DGI TEMPORARY WELL
- 3SB01 — SOIL BORING
- 3MW12D — REPLACED WELL
- 3MW12S — ABANDONED WELL
- 2DMW25D — PHASE I MONITORING WELL
- 2DMW26D — PHASE II MONITORING WELL
- 10 — TOPOGRAPHIC CONTOUR
- 123 — BUILDING No.
- WATERCOURSE
- STM — STORM SEWER AND CATCH BASIN
- EXPOSED BEDROCK
- FENCE

0 250 500
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED–AREA
SCALE AS NOTED

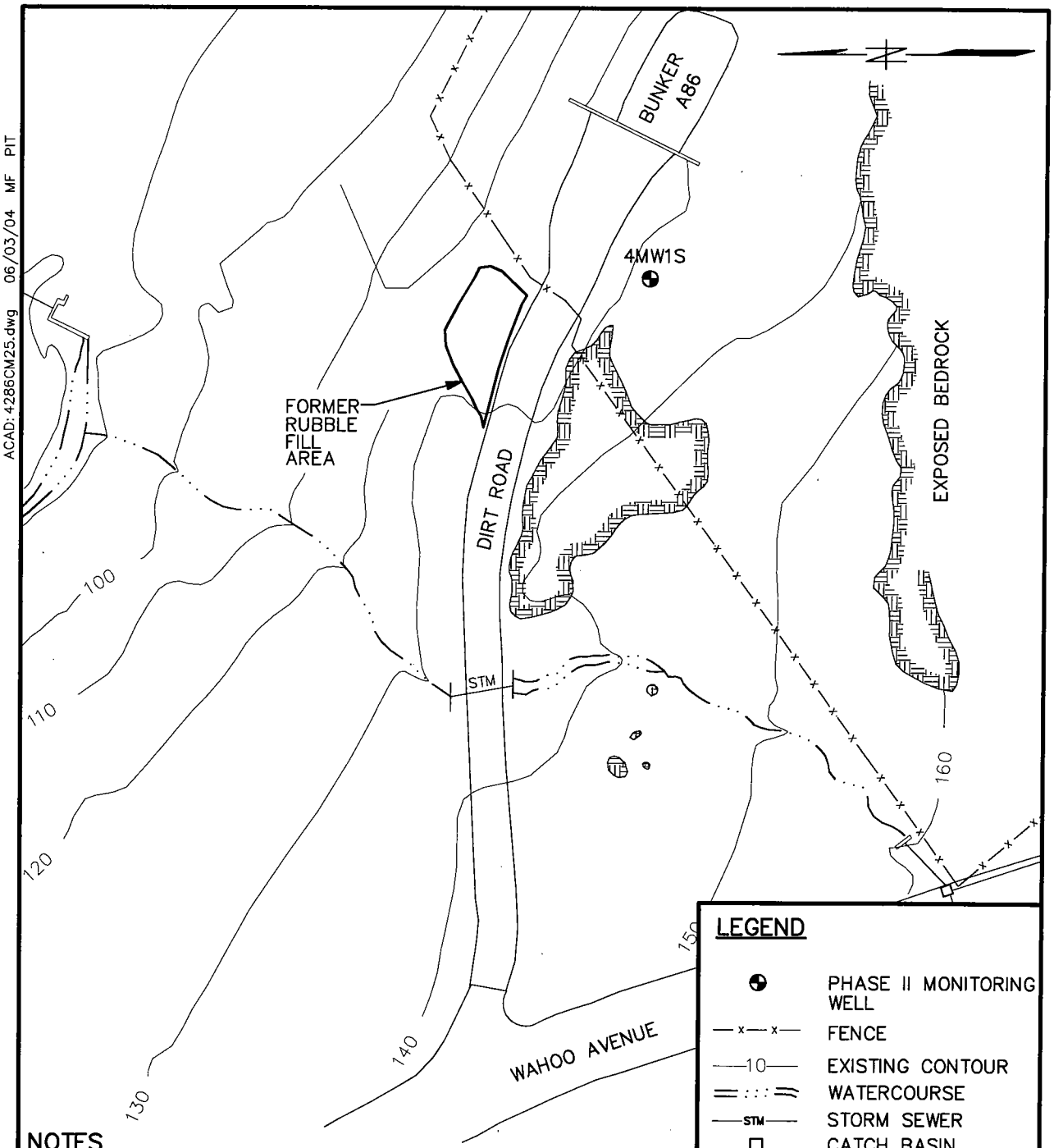
Tetra Tech NUS, Inc.

SITE MAP
SITE 3–AREA A DOWNSTREAM WATERCOURSES/OBDA
2004 SITE MANAGEMENT PLAN
NSB–NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/4/04
APPROVED BY DATE
DRAWING NO. FIGURE 8–6
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

ACAD: 4286CM25.dwg 06/03/04 MF PIT



LEGEND

- PHASE II MONITORING WELL
- FENCE
- EXISTING CONTOUR
- WATERCOURSE
- STORM SEWER
- CATCH BASIN

0 60 120
SCALE IN FEET

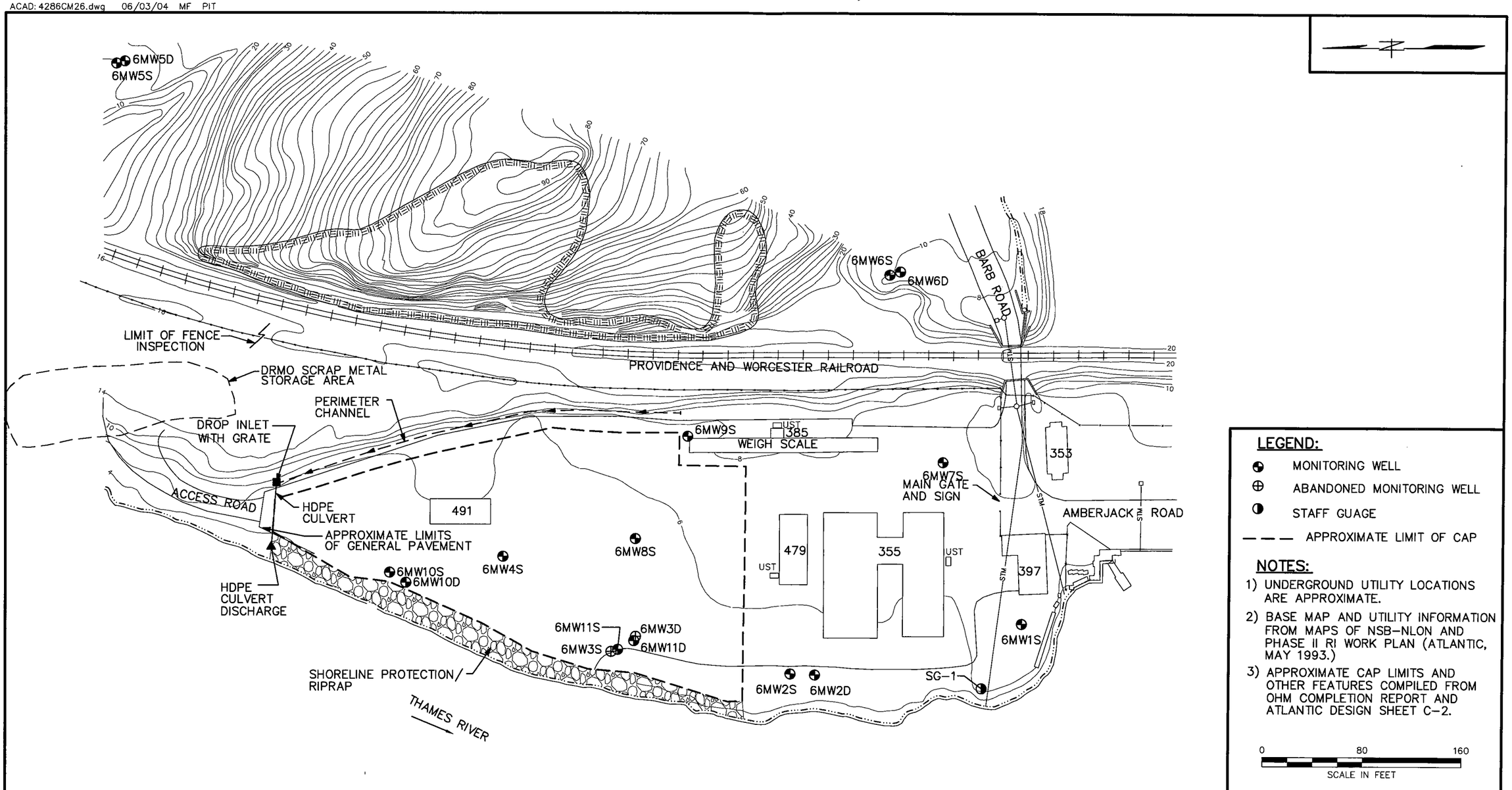
NOTES

1. UNDERGROUND UTILITY LOCATIONS AREA APPROXIMATE.
2. BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB-NLON AND PHASE II RI WORK PLAN.

DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE MAP SITE 4-RUBBLE FILL AREA AT BUNKER A86 2004 SITE MANAGEMENT PLAN NSB-NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/4/04
COST/SCHED-AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8-7	REV. 0

FORM CADD NO. TtNUS_AV.DWG - REV 0 - 1/22/98

ACAD: 4286CM26.dwg 06/03/04 MF PIT



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- STAFF GUAGE
- APPROXIMATE LIMIT OF CAP

NOTES:

1) UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
2) BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB–NLON AND PHASE II RI WORK PLAN (ATLANTIC, MAY 1993.)
3) APPROXIMATE CAP LIMITS AND OTHER FEATURES COMPILED FROM OHM COMPLETION REPORT AND ATLANTIC DESIGN SHEET C–2.

0 80 160
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED–AREA
SCALE AS NOTED

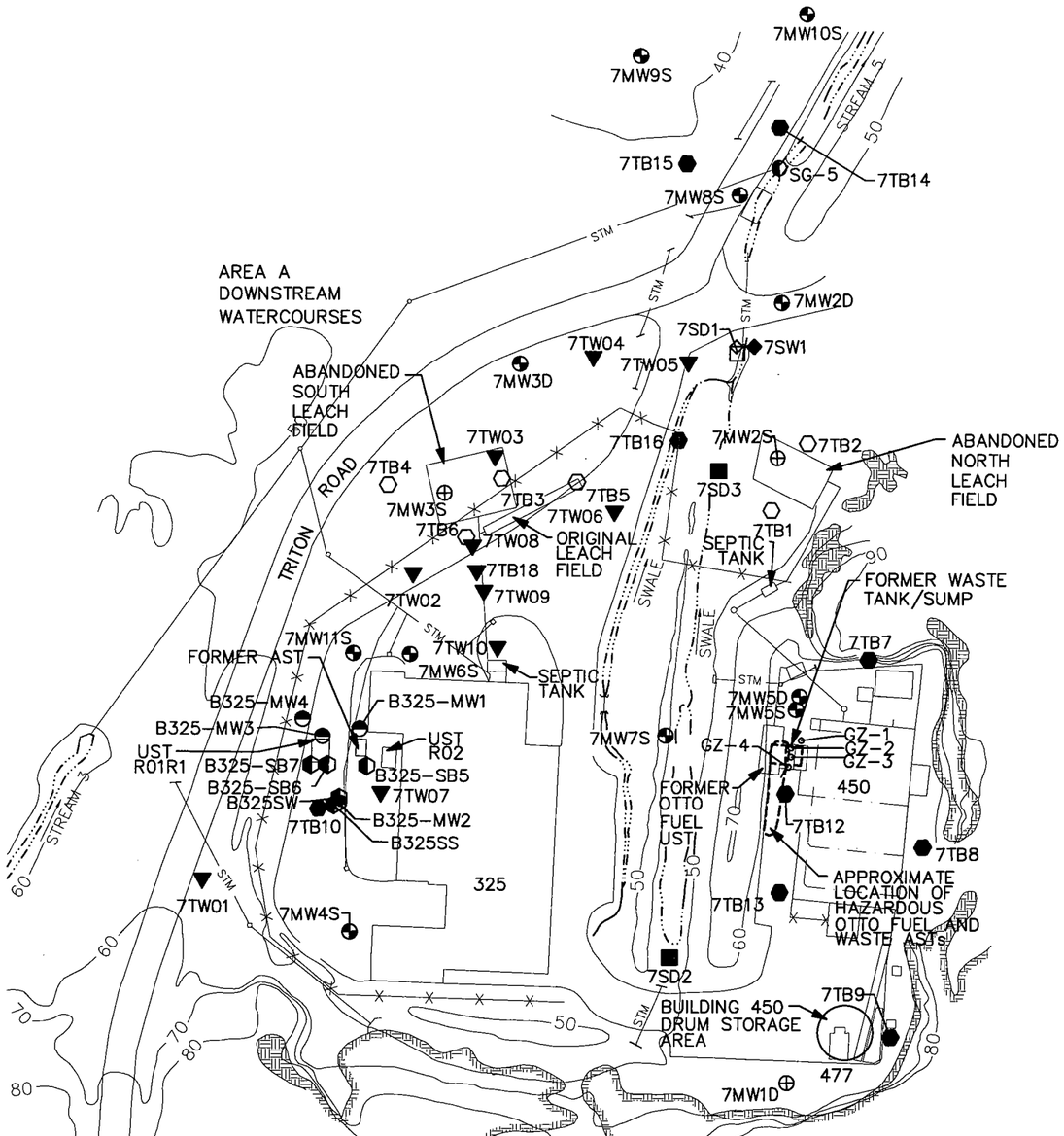
Tetra Tech NUS, Inc.

SITE MAP
SITE 6 – DRMO
2004 SITE MANAGEMENT PLAN
NSB–NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8–8
REV. 1

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

ACAD: 4286CM27.dwg 06/03/04 MF PIT



NOTES

1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.
2. BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB-NLON AND PHASE II RI WORK PLAN.

LEGEND

⊕7MW2S	PHASE I MONITORING WELL
◔7MW7S	PHASE II MONITORING WELL
◓B325-MW1	SITE CHARACTERIZATION MONITORING WELL
⬡7TB1	PHASE I TEST BORING
⬢7TB12	PHASE II TEST BORING
◐B325-SB6	SITE CHARACTERIZATION SOIL BORING
◇7SW1	PHASE I SURFACE WATER SAMPLE
◆7SW1	PHASE II SURFACE WATER SAMPLE
□7SD1	PHASE I SEDIMENT SAMPLE
■7SD3	PHASE II SEDIMENT SAMPLE
◐SG-5	PHASE II STAFF GAUGE
▼7TB17	BGOURI TEST BORING LOCATION
▼7TW02	BGOURI TEMPORARY WELL
—10—	TOPOGRAPHIC CONTOUR
123	BUILDING No.
-·-·-	WATERCOURSE
—STM—□-	STORM SEWER AND CATCH BASIN
	EXPOSED BEDROCK
—X—X—	FENCE

0 110 220
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

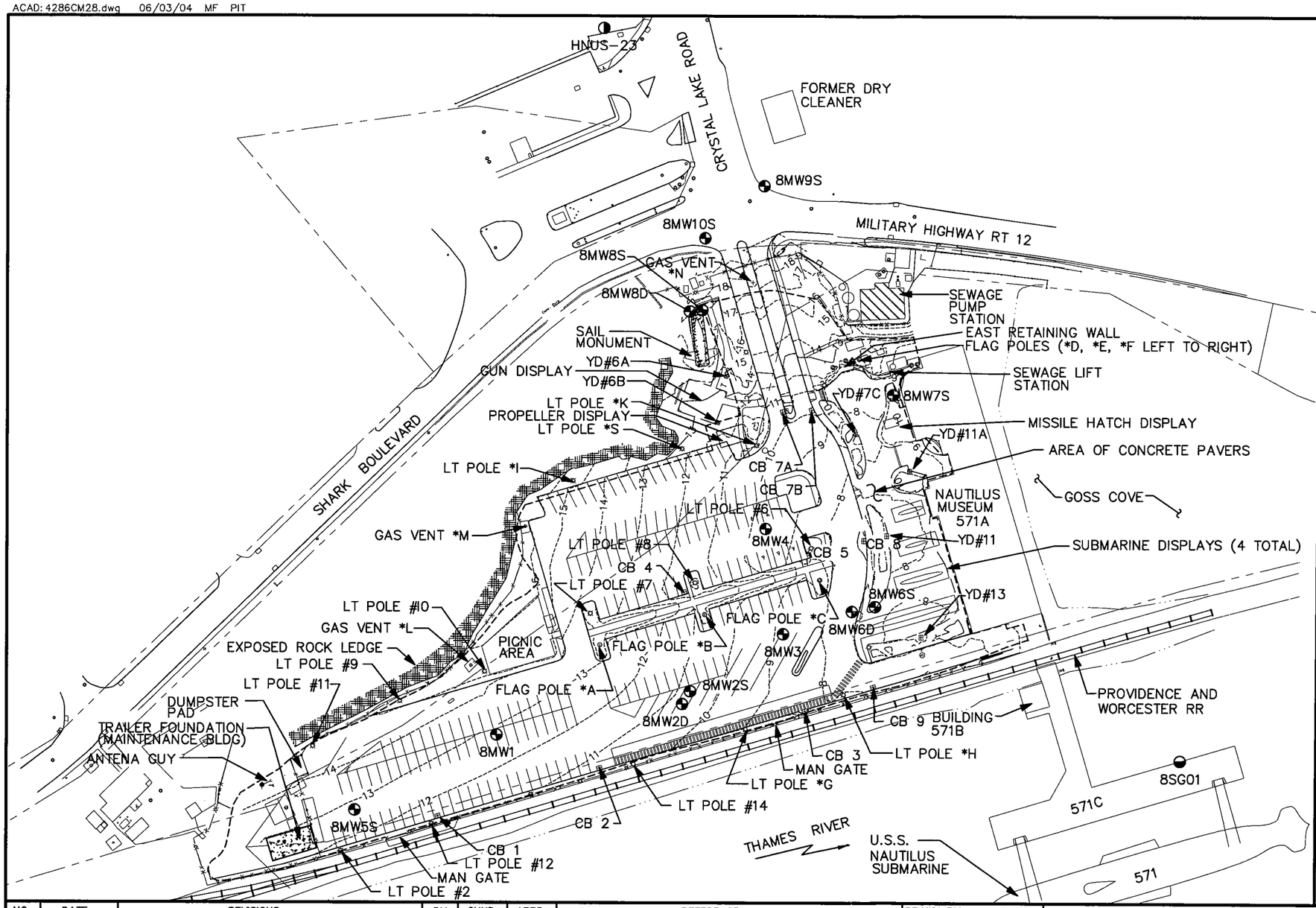
Tetra Tech NUS, Inc.

SITE MAP
SITE 7 – TORPEDO SHOPS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAL DATE 6/4/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-9
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

ACAD: 4286CM28.dwg 06/03/04 MF PIT



LEGEND:

- MONITORING WELL
- STAFF GUAGE
- TANK FARM MONITORING WELL
- ASPHALT PAVEMENT AREA CAP SYSTEM
- -- 12 -- TOPOGRAPHIC ELEVATION CONTOUR (NAVD88)
- —x—x— CHAIN-LINK FENCE

NOTE:

* IDENTIFICATION NUMBER/LETTER WITH AN ASTERISK INDICATES AN ARBITRARY DESIGNATION FOR THE O&M MANUAL AND WAS NOT PROVIDED IN THE DESIGN OR AS-BUILT DOCUMENTATION.

0 100 200
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

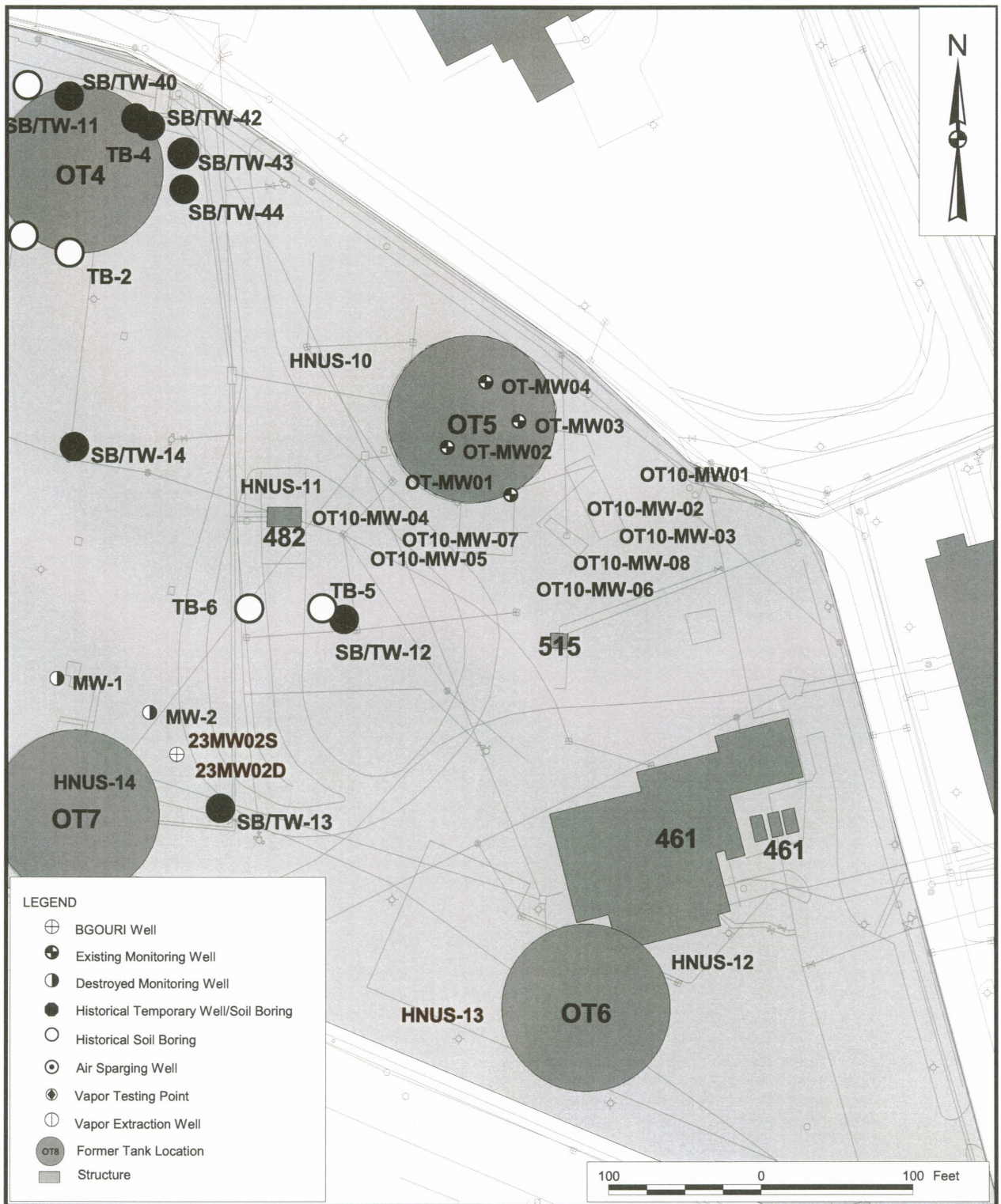
DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 8 – GOSS COVE LANDFILL
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/4/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-10
REV. 0

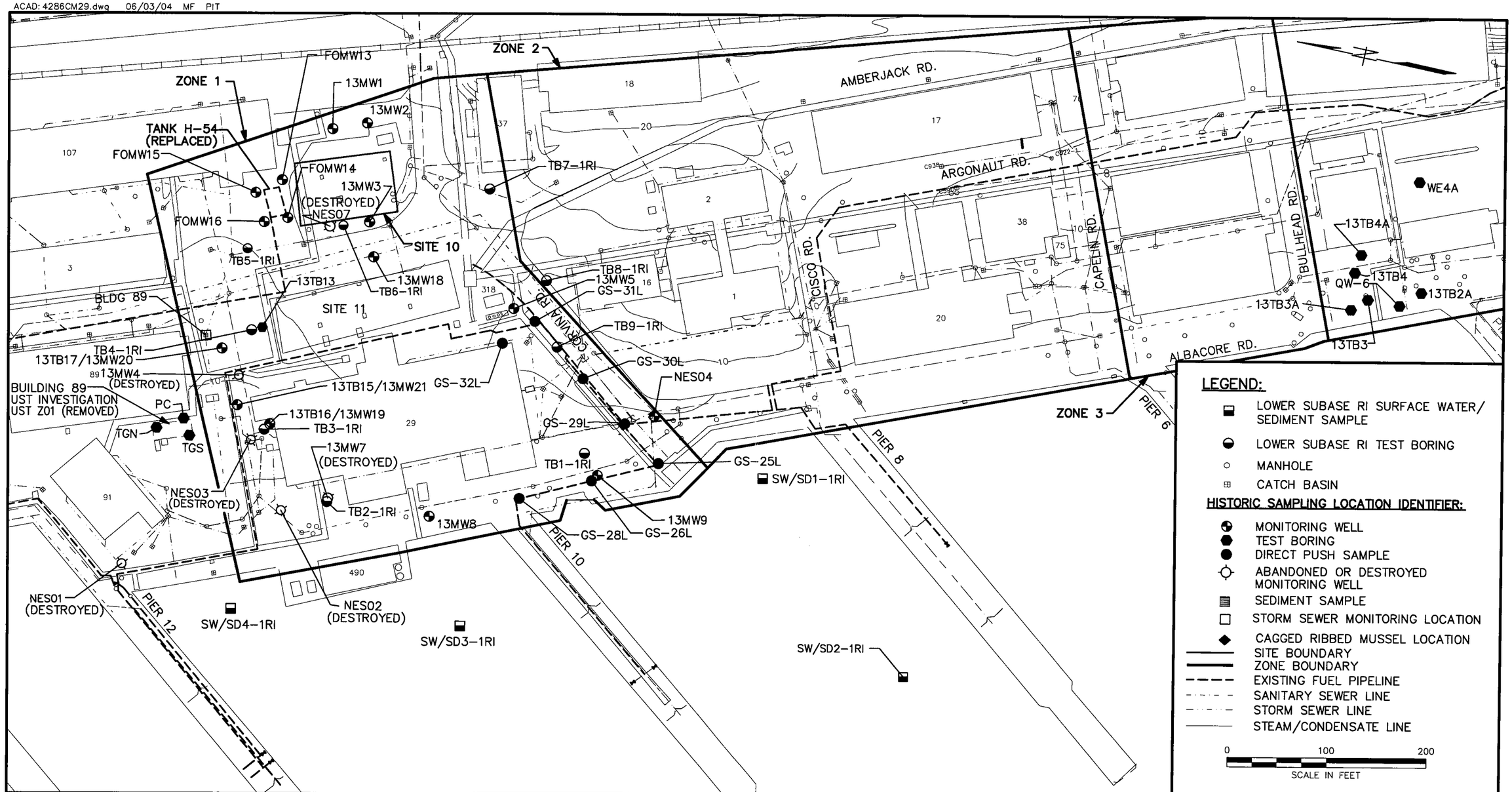
FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98



DRAWN BY M. Spangenberg — DATE 5-15-01	Tetra Tech NUS, Inc.	CONTRACT NUMBER 4286	OWNER NO. 0841
CHECKED BY — DATE —	SITE MAP SITE 9 - OT-5 2004 SITE MANAGEMENT PLAN NSB-NLON, GROTON, CT	APPROVED BY CAR	DATE 6/3/04
COST/SCHEDULE-AREA		APPROVED BY —	DATE —
SCALE AS NOTED		DRAWING NO. FIGURE 8-11	REV 0

G:\GIS\NLON\NORTH&SOUTH_TAGS.APR SITES 9 - OT5 SITE MAP 6/3/04 JAL

ACAD: 4286CM29.dwg 06/03/04 MF PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 10 – FUEL STORAGE TANKS AND TANK 54-H AND SITE 11 – POWER PLANT OIL TANKS
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/4/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-12
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

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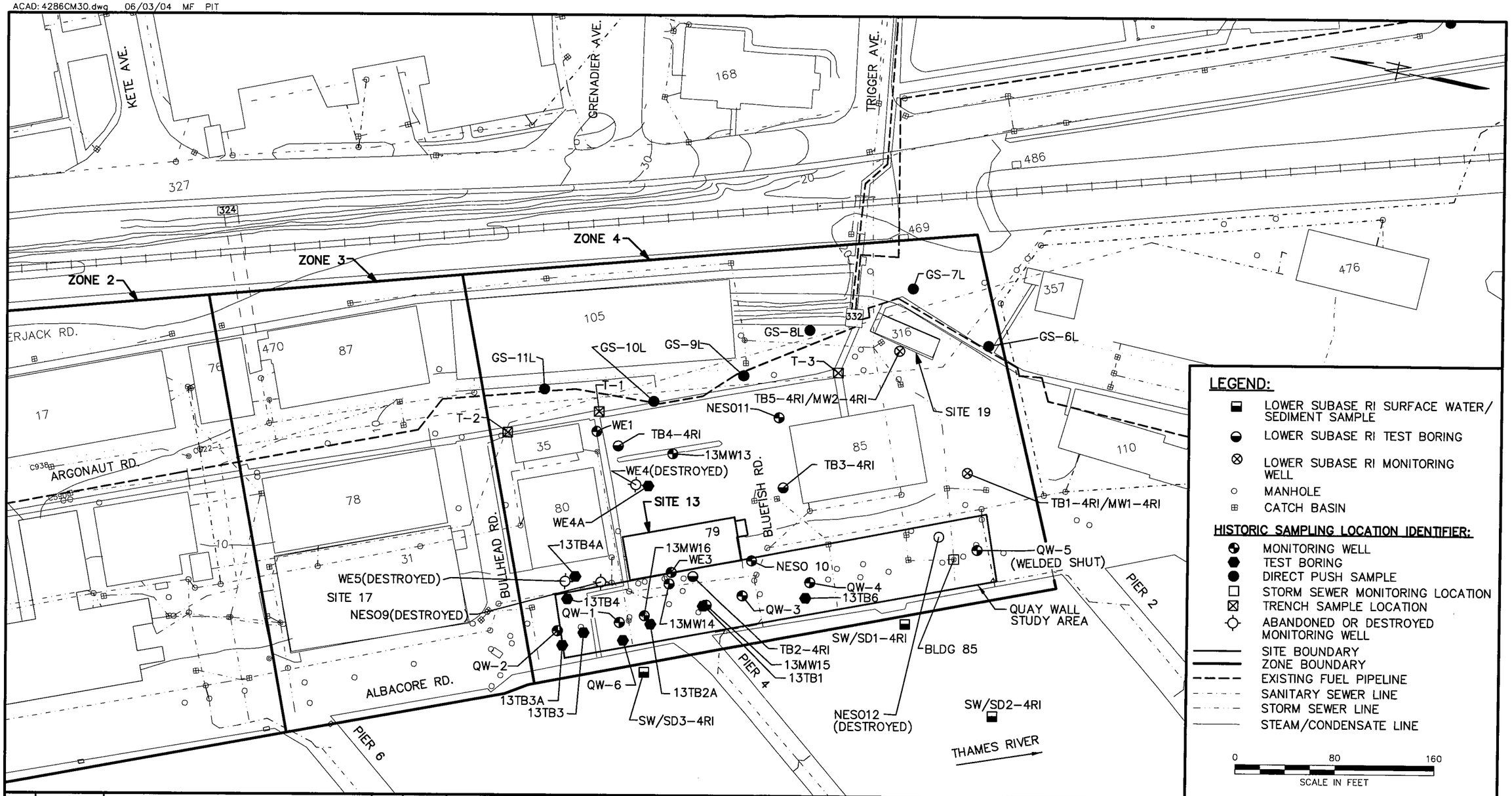


NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

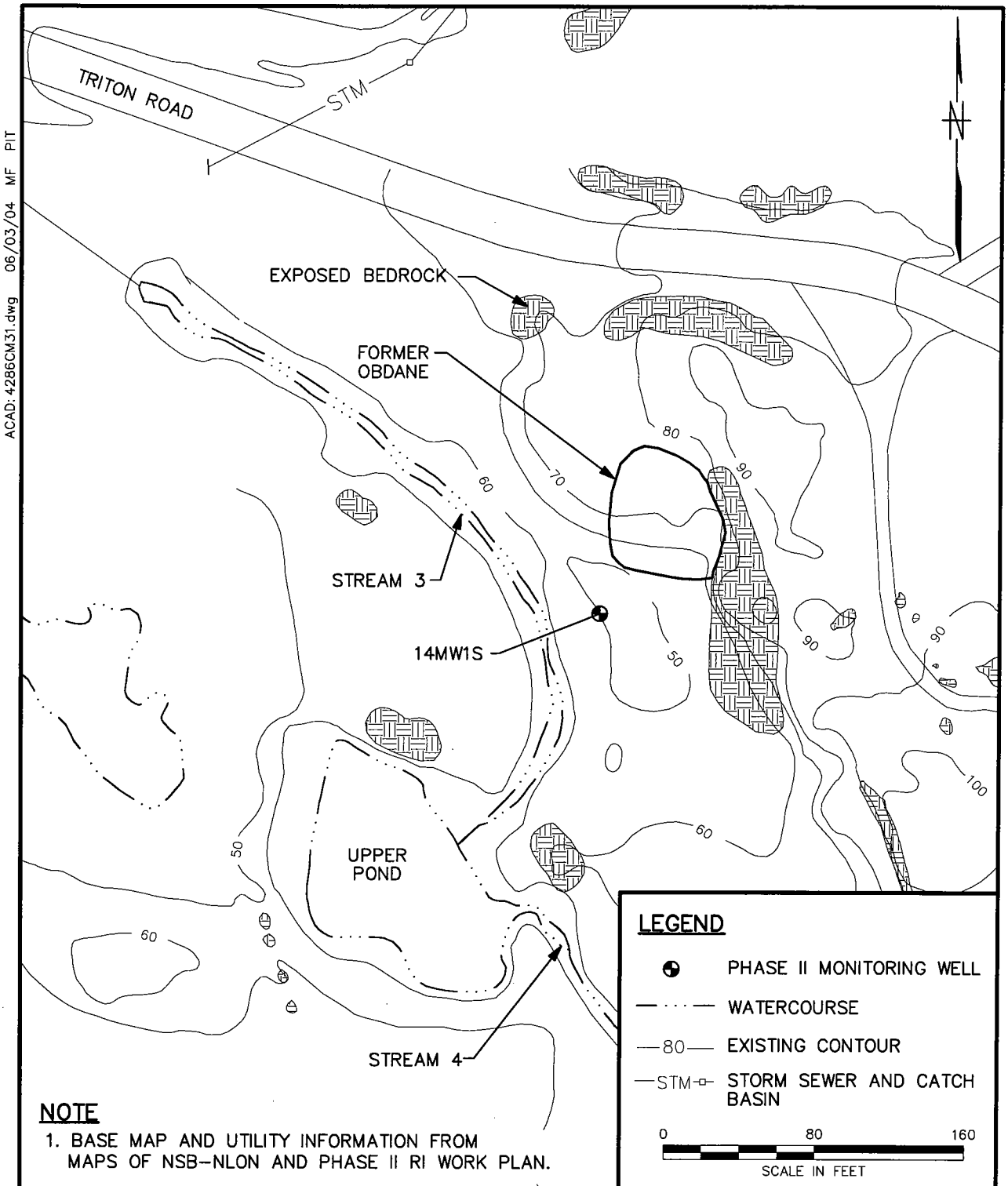
Tetra Tech NUS, Inc.

SITE MAP
SITE 13 – BUILDING 79 WASTE OIL PIT AND
SITE 19 – SOLVENT STORAGE AREA (BUILDING 316)
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-13
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

ACAD: 4286CM31.dwg 06/03/04 MF PIT



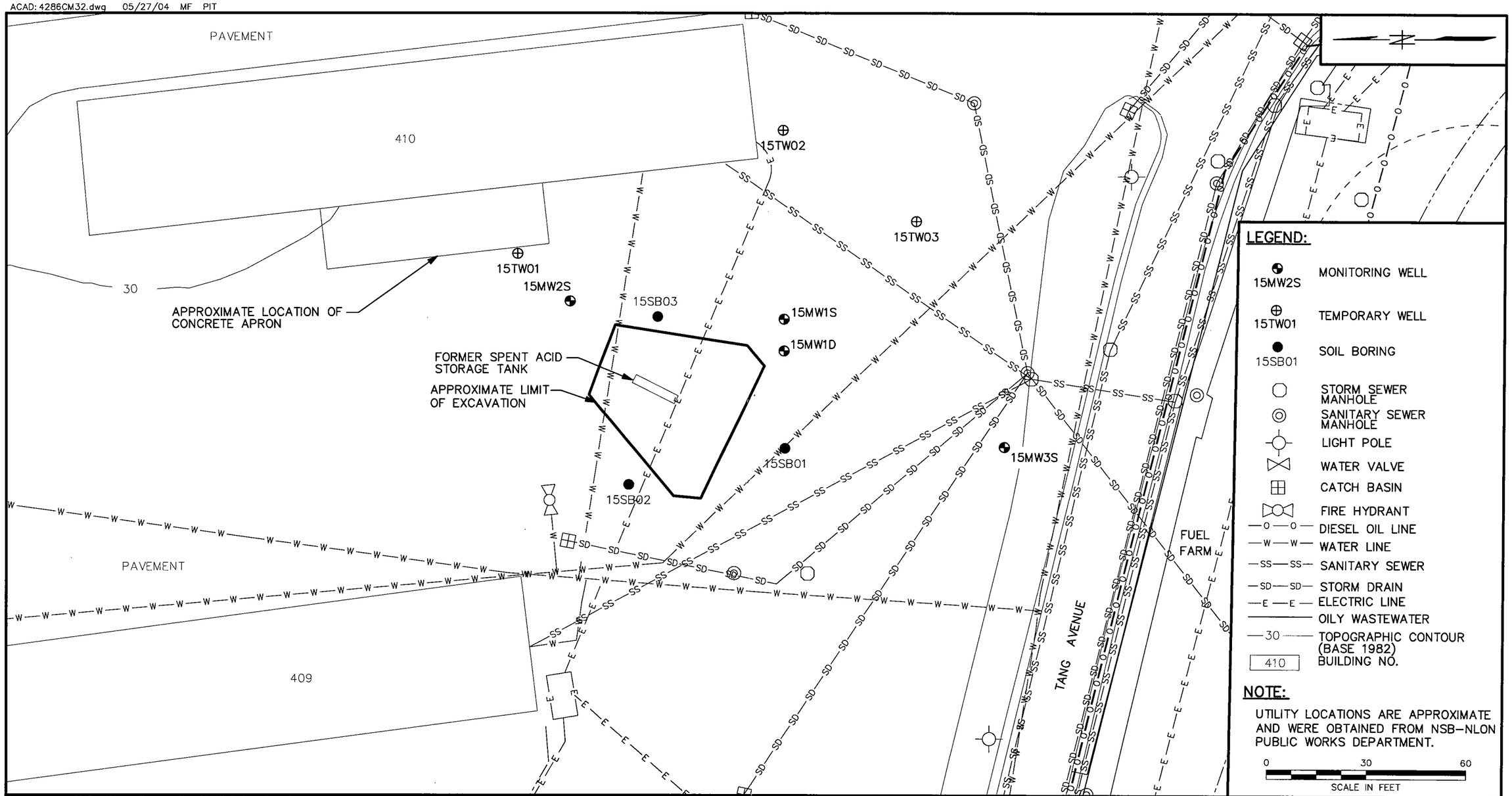
NOTE

1. BASE MAP AND UTILITY INFORMATION FROM MAPS OF NSB–NLON AND PHASE II RI WORK PLAN.

DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE MAP SITE 14 – OBDANE 2004 SITE MANAGEMENT PLAN NSB–NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/4/04
COST/SCHED–AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8–14	REV. 0

FORM CADD NO. TtNUS_AV.DWG – REV 0 – 1/22/98

ACAD: 4286CM32.dwg 05/27/04 MF PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

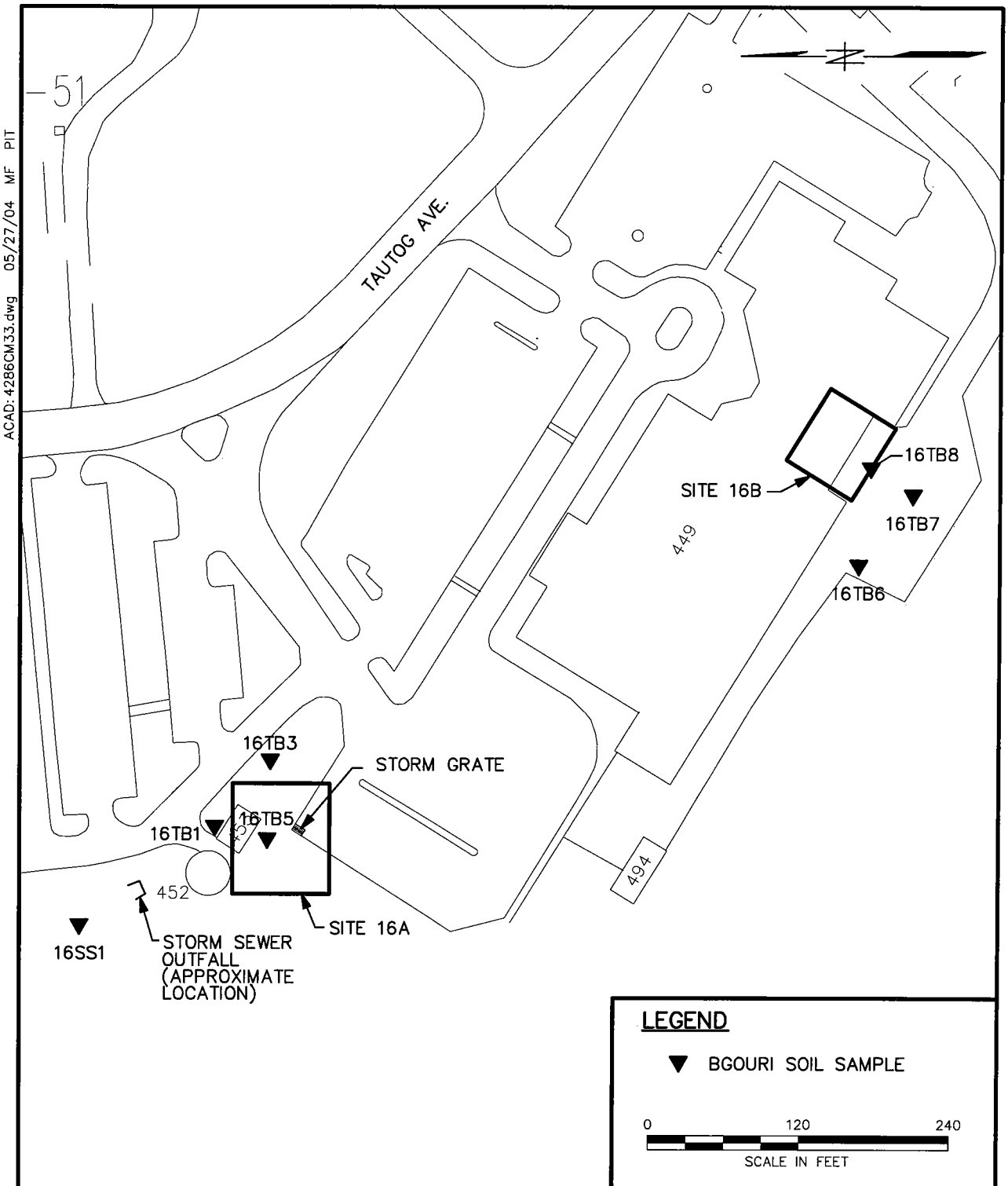
DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 15 – SPENT ACID STORAGE AND DISPOSAL AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/3/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-15
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

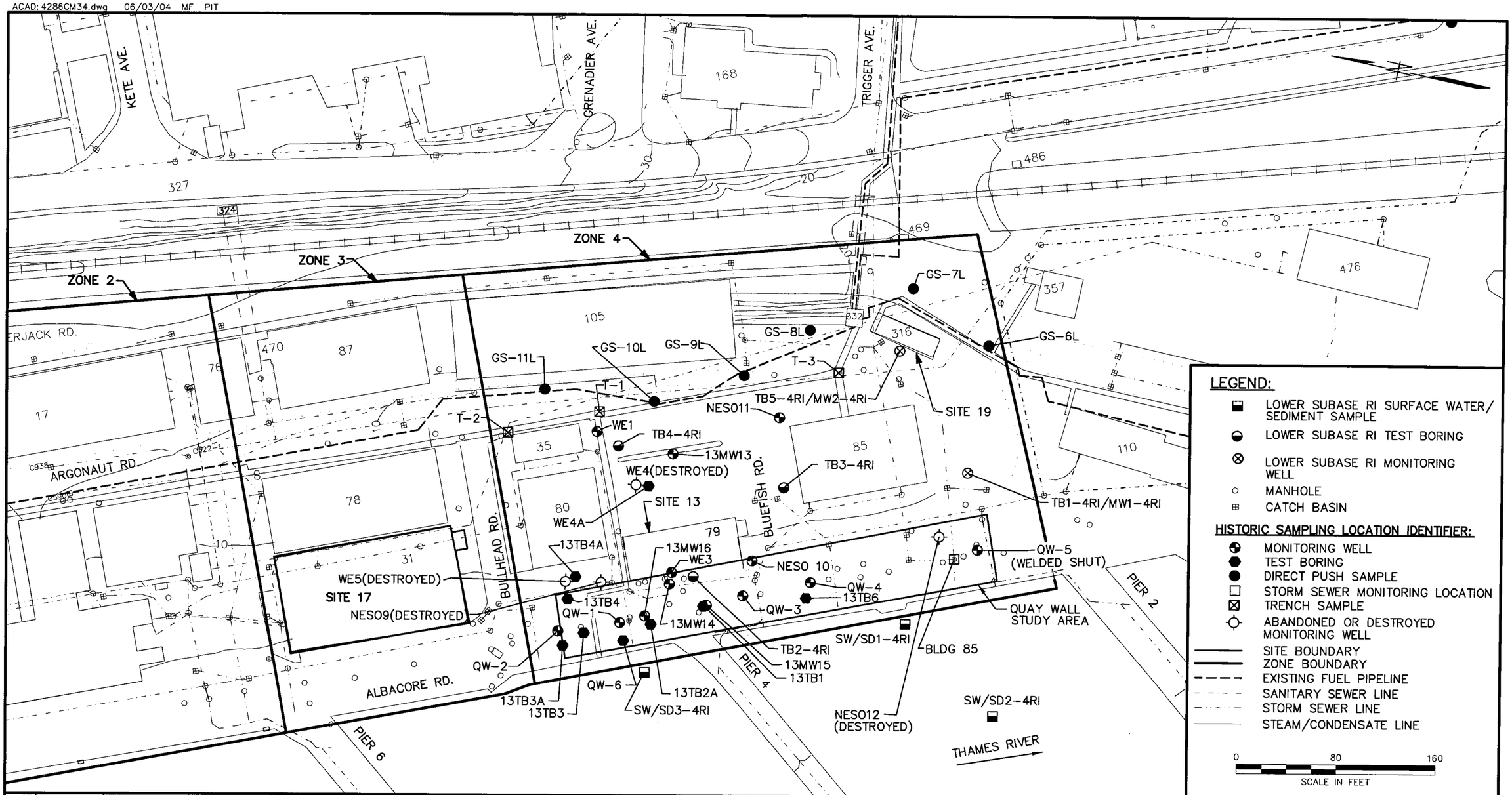


ACAD: 4286CM33.dwg 05/27/04 MF PIT

DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE LOCATION MAP SITE 16–HOSPITAL INCINERATORS 2004 SITE MANAGEMENT PLAN NSB–NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/4/04
COST/SCHED–AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8–16	REV. 0

FORM CADD NO. TtNUS_AV.DWG – REV 0 – 1/22/98

ACAD: 4286CM34.dwg 06/03/04 MF PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 17 – HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31) AD QUAY WALL STUDY AREA
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAL
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-17
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

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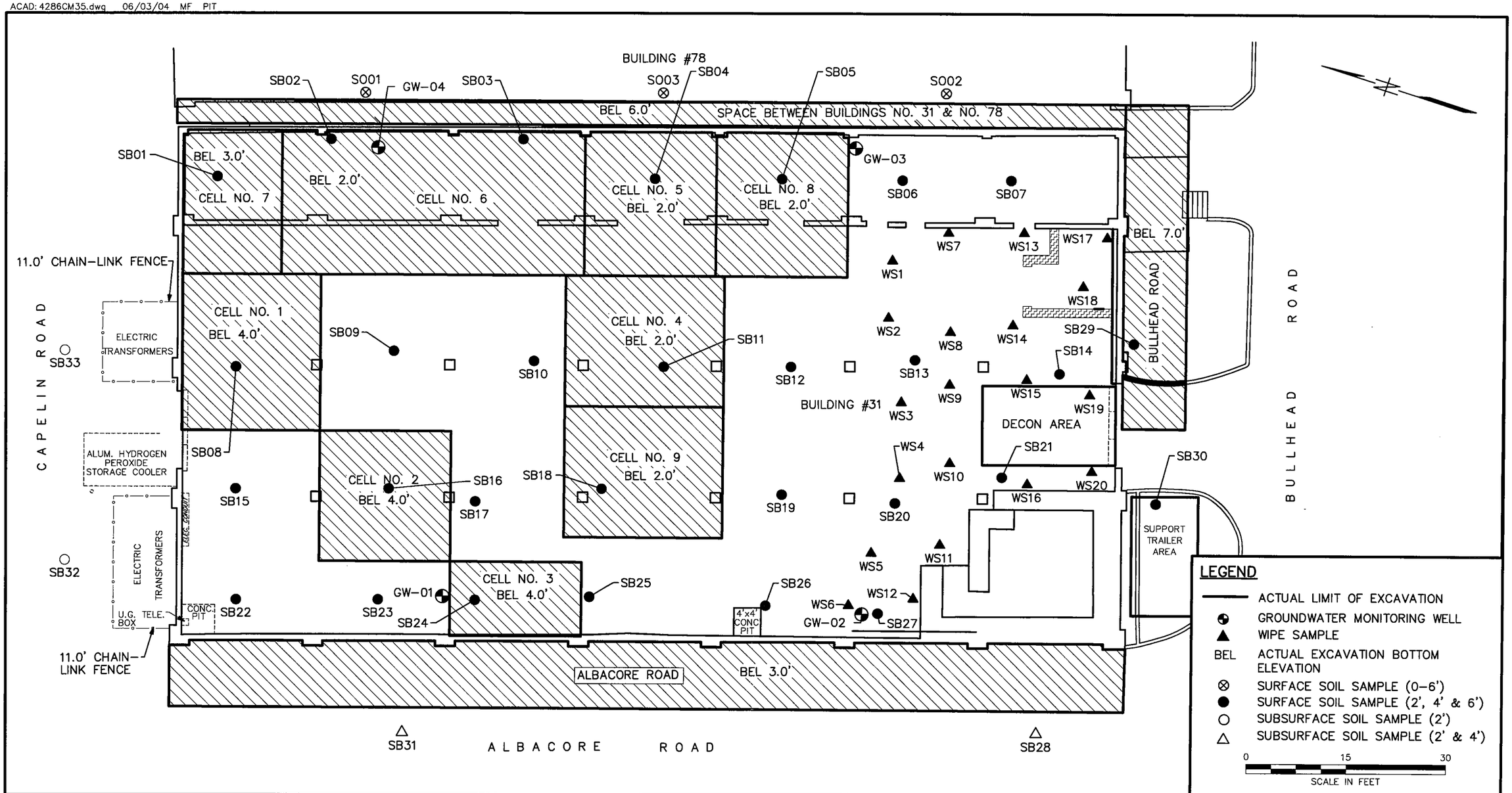


NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

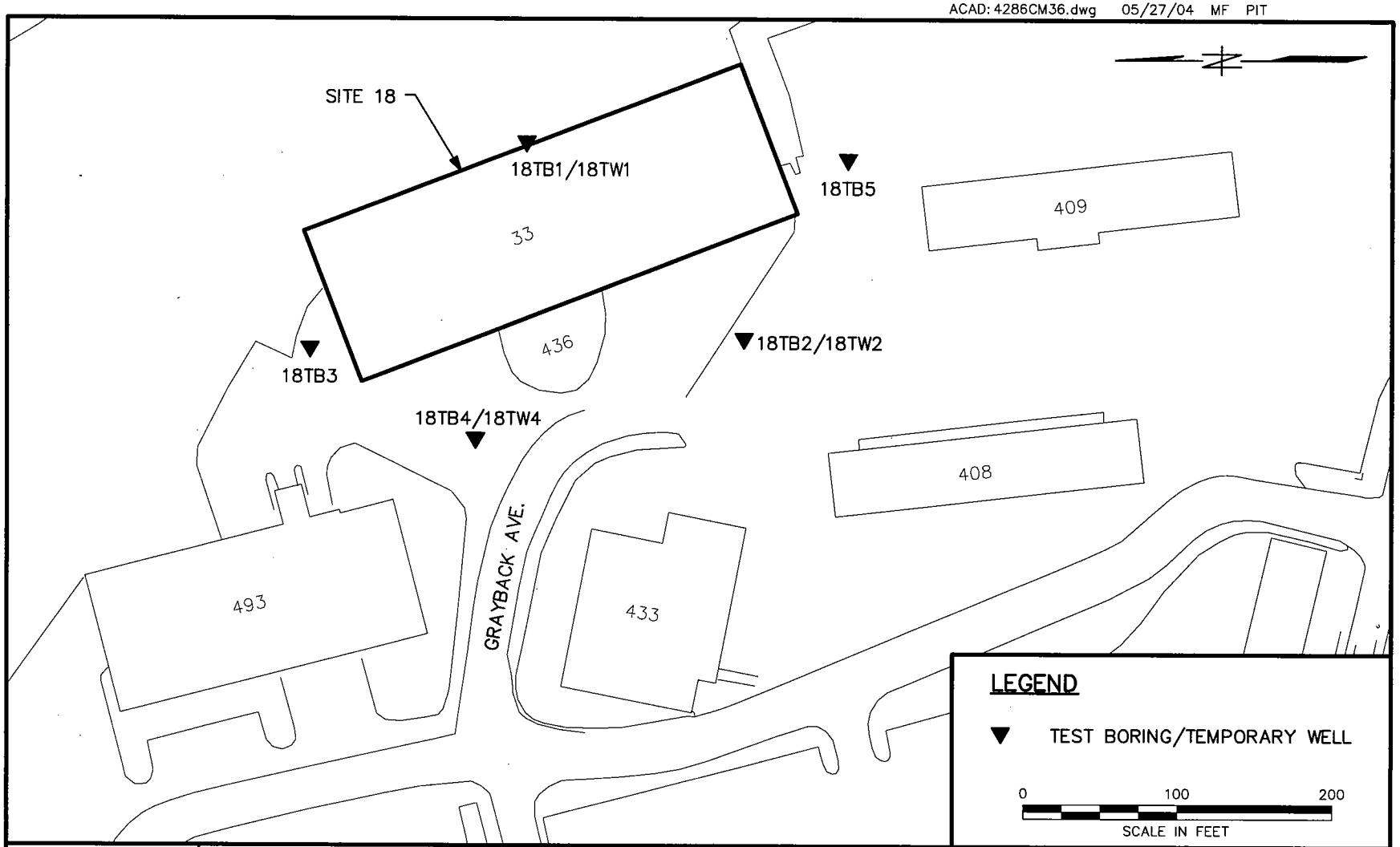
Tetra Tech NUS, Inc.

SITE MAP
AREAS OF REMEDIATION AT SITE 17
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-18
REV. 0

FORM CADD NO. TtNUS_BH.DGN - REV 0 - 1/20/98

ACAD: 4286CM36.dwg 05/27/04 MF PIT



DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE MAP SITE 18–SOLVENT STORAGE AREA (BUILDING 33) 2004 SITE MANAGEMENT PLAN NSB–NLON, GROTON, CONNECTICUT	APPROVED BY CAR	DATE 6/3/04
COST/SCHED–AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8–19	REV. 0

FORM CADD NO. TtNUS_AH.DWG – REV 0 – 1/22/98

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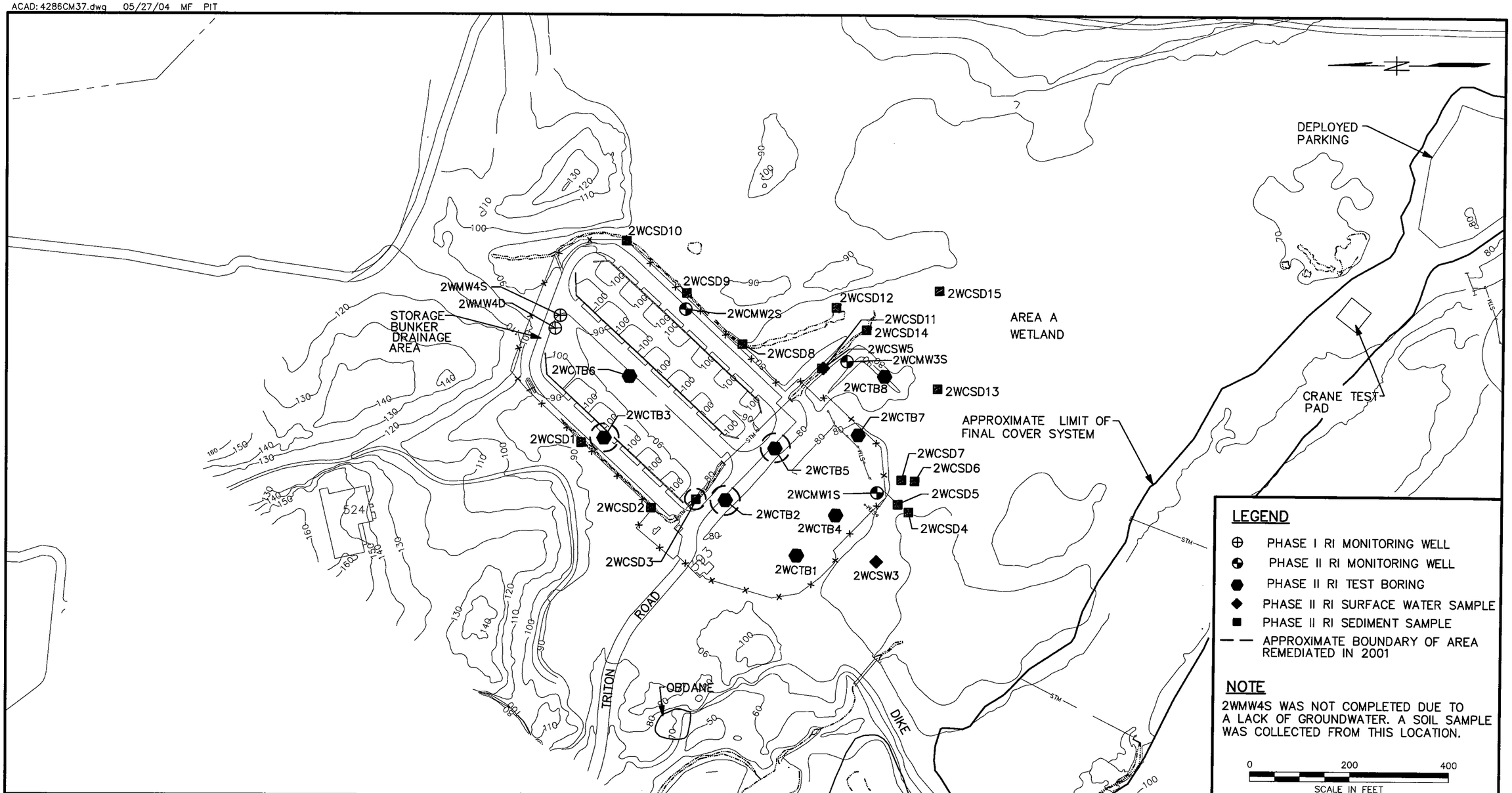

LEGEND

- ⊕ PHASE I RI MONITORING WELL
- PHASE II RI MONITORING WELL
- PHASE II RI TEST BORING
- PHASE II RI SURFACE WATER SAMPLE
- PHASE II RI SEDIMENT SAMPLE
- — — APPROXIMATE BOUNDARY OF AREA REMEDIATED IN 2001

NOTE

2WMW4S WAS NOT COMPLETED DUE TO A LACK OF GROUNDWATER. A SOIL SAMPLE WAS COLLECTED FROM THIS LOCATION.

0 200 400
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 20-AREA A WEAPONS CENTER
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/3/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-20
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

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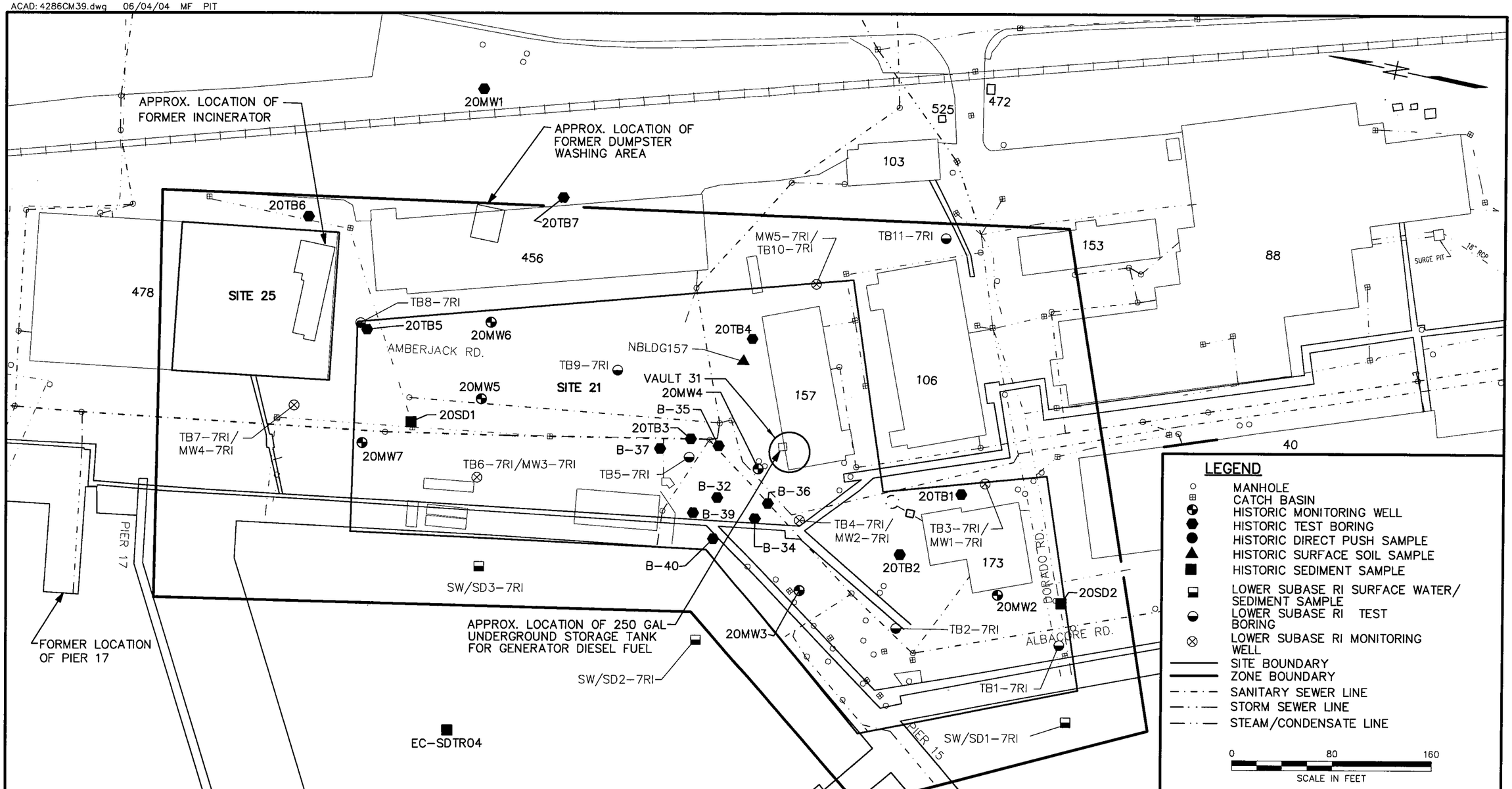


NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

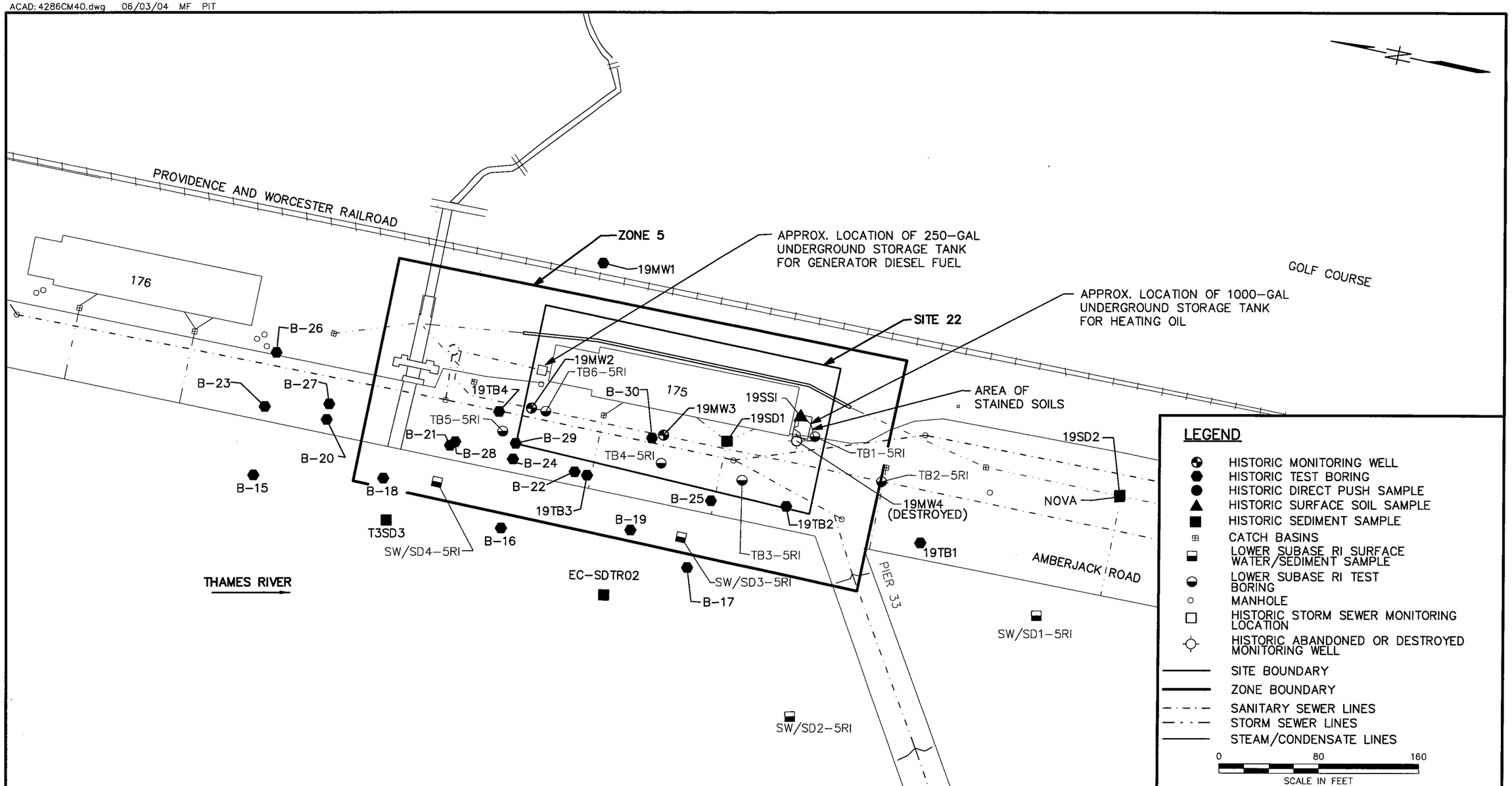
Tetra Tech NUS, Inc.

SITE MAP
SITE 21-BERTH 16 AND
SITE 25-CLASSIFIED MATERIAL INCINERATOR
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR
DATE 6/4/04
APPROVED BY
DATE
DRAWING NO. FIGURE 8-21
REV. 0

FORM CADD NO. TtNUS_BH.DGN - REV 0 - 1/20/98

ACAD: 4286CM40.dwg 06/03/04 MF PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MF DATE 5/27/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

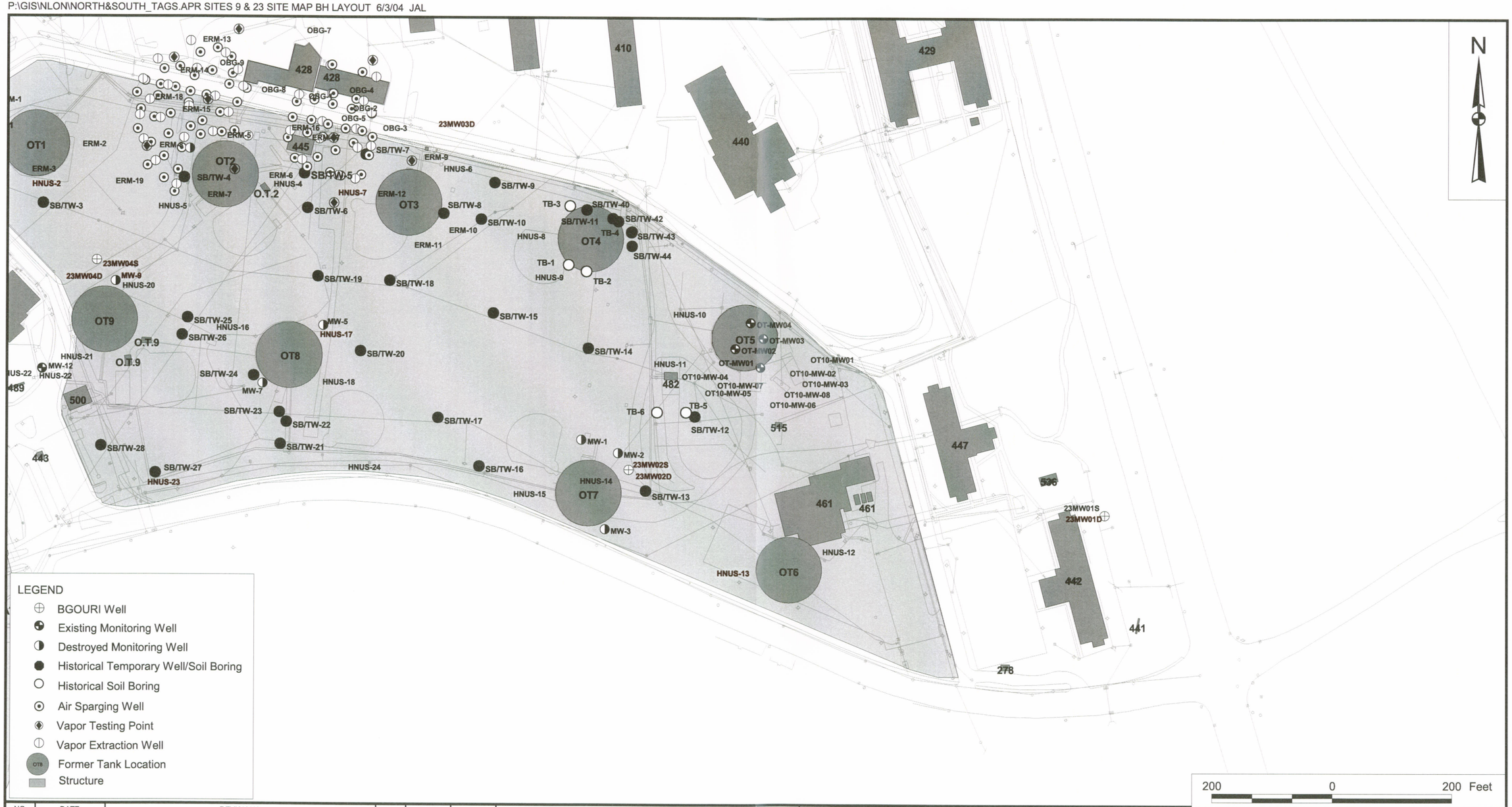
Tetra Tech NUS, Inc.

SITE MAP
SITE 22 – PIER 33
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CONNECTICUT

CONTRACT NO. 4286
OWNER NO. 0841
APPROVED BY CAR DATE 6/4/04
APPROVED BY DATE
DRAWING NO. FIGURE 8-22
REV. 0

FORM CADD NO. TtNUS_BH.DGN – REV 0 – 1/20/98

P:\GIS\NLON\NORTH&SOUTH_TAGS.APR SITES 9 & 23 SITE MAP BH LAYOUT 6/3/04 JAL



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

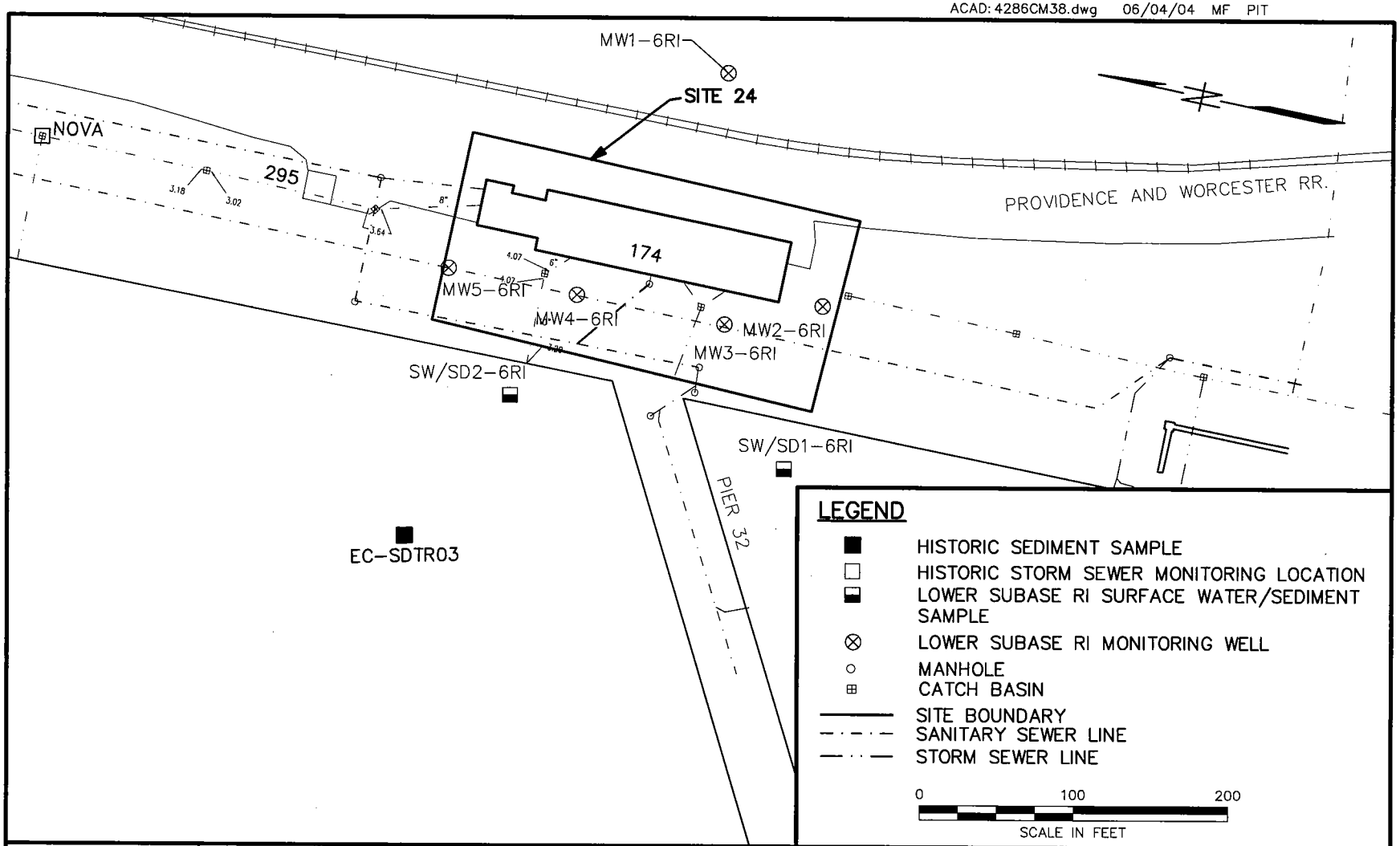
DRAWN BY J. LAMEY DATE 7/1/99
CHECKED BY ____ DATE ____
COST/SCHEDULE-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

SITE MAP
SITE 23 - FUEL FARM
2004 SITE MANAGEMENT PLAN
NSB-NLON, GROTON, CT

CONTRACT NUMBER 4286
OWNER NUMBER 0841
APPROVED BY CAR DATE 6/3/04
APPROVED BY — DATE —
DRAWING NO. FIGURE 8-23
REV 0

ACAD: 4286CM38.dwg 06/04/04 MF PIT



DRAWN BY MF DATE 5/27/04	Tetra Tech NUS, Inc.	CONTRACT NO. 4286	OWNER NO. 0841
CHECKED BY DATE	SITE MAP SITE 24–CENTRAL PAINT ACCUMULATION AREA A (BUILDING 174) 2004 SITE MANAGEMENT PLAN NSB–NLON, GROTON, CONNECTICUT	APPROVED BY CAL	DATE 6/4/04
COST/SCHED–AREA		APPROVED BY	DATE
SCALE AS NOTED		DRAWING NO. FIGURE 8–24	REV. 0

FORM CADD NO. TtNUS_AH.DWG – REV 0 – 1/22/98

REFERENCES

Atlantic (Atlantic Environmental Services, Inc.), 1992. Phase I Remedial Investigation Naval Submarine Base - New London, Groton, Connecticut. Colchester, Connecticut, August.

Atlantic, 1993. Work Plan, Field Sampling Plan, QA/QC Plan, Health and Safety Plan, Phase II Remedial Investigation. Colchester, Connecticut, May.

Atlantic, 1994a. Draft Focused Feasibility Study, Defense Reutilization Marketing Office, Installation Restoration Program, Naval Submarine Base-New London, Groton, Connecticut. Colchester, Connecticut, March.

Atlantic, 1994b. Draft Focused Feasibility Study, Spent Acid Storage and Disposal Area, Installation Restoration Program, Naval Submarine Base - New London, Groton, Connecticut. Colchester, Connecticut, March.

Atlantic, 1994c. Draft Focused Feasibility Study, Area A Downstream/OBDA, Installation Restoration Program, Naval Submarine Base - New London, Groton, Connecticut. Colchester, Connecticut, April.

Atlantic, 1995a. Final Site Inspection Report, Pier 33 and Berth 16/Former Incinerator, Installation Restoration Program, Naval Submarine Base - New London, Groton, Connecticut. Colchester, Connecticut, February.

Atlantic, 1995b. Action Memorandum for the Defense Reutilization and Marketing Office and the Spent Acid Storage and Disposal Area. Colchester, Connecticut, March.

Atlantic, 1995c. Final Focused Feasibility Study, Area A Landfill, Installation Restoration Program, Naval Submarine Base – New London, Groton, Connecticut. Colchester, Connecticut, May.

Atlantic, 1995d. Proposed Plan for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. Colchester, Connecticut, June.

Atlantic, 1995e. Record of Decision for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. Colchester, Connecticut, September.

B&RE (Brown & Root Environmental), 1996a. Final Site Characterization Report for OT-10, Building 325, and Building 89, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, June.

B&RE, 1996b. Revised Design Analysis Report, Area A Landfill Remedial Design, Naval Submarine Base – New London, Groton, Connecticut. Wayne, Pennsylvania, December.

B&RE, 1997a. Existing Data Summary Report for the Lower Subase Remedial Investigation, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, March.

B&RE, 1997b. Phase II Remedial Investigation Report for Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, March.

B&RE, 1997c. Verification Sampling Report for Site 4 Removal Action, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, June.

B&RE, 1997d. Proposed Plan for Area A Downstream/OBDA (Site 3), Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, July.

B&RE, 1997e. Data Gap Investigation Report for Goss Cove Landfill, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, August.

B&RE, 1997f. Final Lower Subase Remedial Investigation Work Plan and Sampling and Analysis Plan, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, September.

B&RE, 1997g. Feasibility Study for the Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, September.

B&RE, 1997h. Proposed Plan for the Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, September.

B&RE, 1997i. Site Investigation Report for Tank Farm Investigation for Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, September.

B&RE, 1997j. Feasibility Study for Soil and Sediment, Area A Downstream/OBDA (Site 3), Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, December.

B&RE, 1998a. Groundwater Monitoring Plan for Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, February.

B&RE, 1998b. Final Report for Interim Remedial Action at Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, March.

B&RE, 1998c. Record of Decision for Area A Downstream Watercourses/Overbank Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, March.

Connecticut College, 1998. Draft Wetland Functions and Values Assessment: The Ecological Evaluation of Vegetation Along Goss Cove. September.

CTDEP (Connecticut Department of Environmental Protection), 1999. Phase I/II Environmental Site Assessment Report for Fosconi Dry Cleaners. Bureau of Water Management, Permitting, Enforcement and Remediation Division, Hartford, Connecticut.

DOD (United States Department of Defense), 1996. Relative Risk Site Evaluation Primer. Office of the Deputy Under Secretary of Defense, Summer, 1996, Revised Edition.

Envirodyne (Envirodyne Engineers, Inc.), 1983. Final Initial Assessment Study of Naval Submarine Base - New London, Groton, Connecticut. Prepared for Navy Assessment and Control of Installation Pollutants (NACIP) Department, Naval Energy and Environmental Support Activity (NEESA), 13-025, Port Hueneme, California. St. Louis, Missouri, March.

EPA (United States Environmental Protection Agency), 1995. Federal Facility Agreement Under CERCLA 120, In the Matter of The US Department of the Navy, Naval Submarine Base - New London, Groton, Connecticut, January.

EPA, 1996. CBU Drum Storage Area No Further Action Decision Document, Naval Submarine Base - New London, Groton, Connecticut. Region I, Boston, Massachusetts, September.

FWEC (Foster Wheeler Environmental Corporation), 1997a. Final Work Plan for Area A Landfill Cap, Naval Submarine Base - New London, Groton, Connecticut. Boston, Massachusetts, February.

FWEC, 1997b. Final Post Removal Report for Site 4 - Rubble Fill at Bunker A-86, Naval Submarine Base - New London, Groton, Connecticut. Boston, Massachusetts, July.

FWEC, 1997c. Final Post Removal Report for Over Bank Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. Boston, Massachusetts, July.

FWEC, 2000. 100% Design, Area A/OBDA, Naval Submarine Base New London, Groton, Connecticut. Boston, Massachusetts, April.

FWEC, 2001. Remedial Action Completion Report, Area A Downstream/OBDA Remediation, Naval Submarine Base New London, Groton, Connecticut. Boston, Massachusetts, February.

GZA (Goldberg-Zoino & Associates), 1988. DRMO Conforming Storage Facility Report.

HNUS (Halliburton NUS Corporation), 1993. Action Memorandum for Building 31, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, May.

HNUS, 1994a. Site Characterization Report for Waste Oil Tank 5, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, May.

HNUS, 1994b. Post Removal Action Report for Waste Oil Tank No. 5, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, December.

HNUS, 1995a. Post-Removal Action Report for Building 31 Lead Remediation, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, January.

HNUS, 1995b. 100% Design Document for Area A Landfill Interim Remedial Action, Naval Submarine Base - New London, Groton, Connecticut. Wayne, Pennsylvania, May.

Navy (U.S. Department of the Navy), 1997a. Proposed Plan for the Spent Acid Storage and Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. July.

Navy, 1997b. Action Memorandum for Over Bank Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. July.

Navy, 1997c. Record of Decision for the Spent Acid Storage and Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. September.

Navy, 1997d. Action Memorandum for Site 4 - Rubble Fill at Bunker A-86, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. September.

Navy, 1998a. Final Interim Record of Decision for the Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. March.

Navy, 1998b. Final Record of Decision for Soil and Sediment, Area A Downstream Water Courses/Overbank Disposal Area, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. March.

Navy, 1998c. Proposed Plan for Site 4 Bunker A-86, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. April.

Navy, 1998d. Record of Decision for Site 4, Source Control for Soil OU, Naval Submarine Base - New London, Groton, Connecticut. Northern Division, Lester, Pennsylvania. June.

NESO (Naval Environmental Support Office), 1979. Oil Contamination of the Ground Water at SUBASE. 1-026, February.

NFESC (Naval Facilities Engineer Service Center), 1995. Draft Final Supplement to Initial Assessment Study, Naval Submarine Base, New London, Groton, Connecticut. Port Hueneme, California, April.

OHM (OHM Remediation Services Corp.), 1995a. Final Report for Interim Remedial Action, Site 6, Naval Submarine Base, New London, Groton, Connecticut. Hopkinton, Massachusetts, September.

OHM, 1995b. Final Report for Soil Remediation, Spent Acid Storage and Disposal Area, Naval Submarine Base, New London, Groton, Connecticut. Hopkinton, Massachusetts, September.

SAIC (Science Applications International Corporation), 1998. Evaluation of Chemical and Toxicological Data for Goss Cove, Naval Submarine Base, Groton, Connecticut. Narragansett, Rhode Island, December.

TtNUS (Tetra Tech NUS, Inc.), 1998. Existing Data Summary Report for the Basewide Groundwater Operable Unit Remedial Investigation, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, December.

TtNUS, 1999a. Groundwater Monitoring Plan for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, Draft Final, January.

TtNUS, 1999b. Lower Subase Remedial Investigation Report, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, January.

TtNUS, 1999c. Feasibility Study for Goss Cove Landfill, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, September.

TtNUS, 1999d. Tank Farm Site Investigation Report Addendum, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, November.

TtNUS, 1999e. Annual Groundwater Monitoring Report for Defense Reutilization and Marketing Office (DRMO), Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, Draft, November.

TtNUS, 2000a. Year 2 Groundwater Monitoring Report for Defense Reutilization and Marketing Office (DRMO), Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, Draft, October.

TtNUS, 2000b. Bidding Document Submission (REV 01) of the Remedial Design for Goss Cove Landfill (Site 8), Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, November.

TtNUS, 2001a. Groundwater Monitoring Plan for the Goss Cove Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, March.

TtNUS, 2001b. Year 1 Annual Groundwater Monitoring Report for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, May.

TtNUS, 2002a. Basewide Groundwater Operable Unit Remedial Investigation, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, January.

TtNUS, 2002b. Year 3 Groundwater Monitoring Report for DRMO, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, March.

TtNUS, 2002c. Operations and Maintenance Manual for Installation Restoration Program Sites at Naval Submarine Base – New London, Groton, Connecticut. Volumes I, III, IV, and V. King of Prussia, Pennsylvania, September.

TtNUS, 2002d. Year 2 Annual Groundwater Monitoring Report for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, December.

TtNUS, 2003a. Year 3 Annual Groundwater Monitoring Report for the Area A Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, July.

TtNUS, 2003b. Year 4 Groundwater Monitoring Report for DRMO, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, August.

TtNUS, 2003c. Year 1 Annual Groundwater Monitoring Report for the Goss Cove Landfill, Naval Submarine Base – New London, Groton, Connecticut. King of Prussia, Pennsylvania, August.

TtNUS, 2004. Basewide Groundwater Operable Unit Remedial Investigation Update/Feasibility Study, Naval Submarine Base - New London, Groton, Connecticut. King of Prussia, Pennsylvania, March.

Wehran (Wehran Engineering Corporation), 1987. Site Investigation - Subsurface Oil Contamination - Lower Subase: Naval Submarine Base - New London, Groton, Connecticut. Methuen, Massachusetts.

Wehran, 1988. Verification Study, Naval Submarine Base - New London, Groton, Connecticut. Methuen, Massachusetts.

APPENDIX A

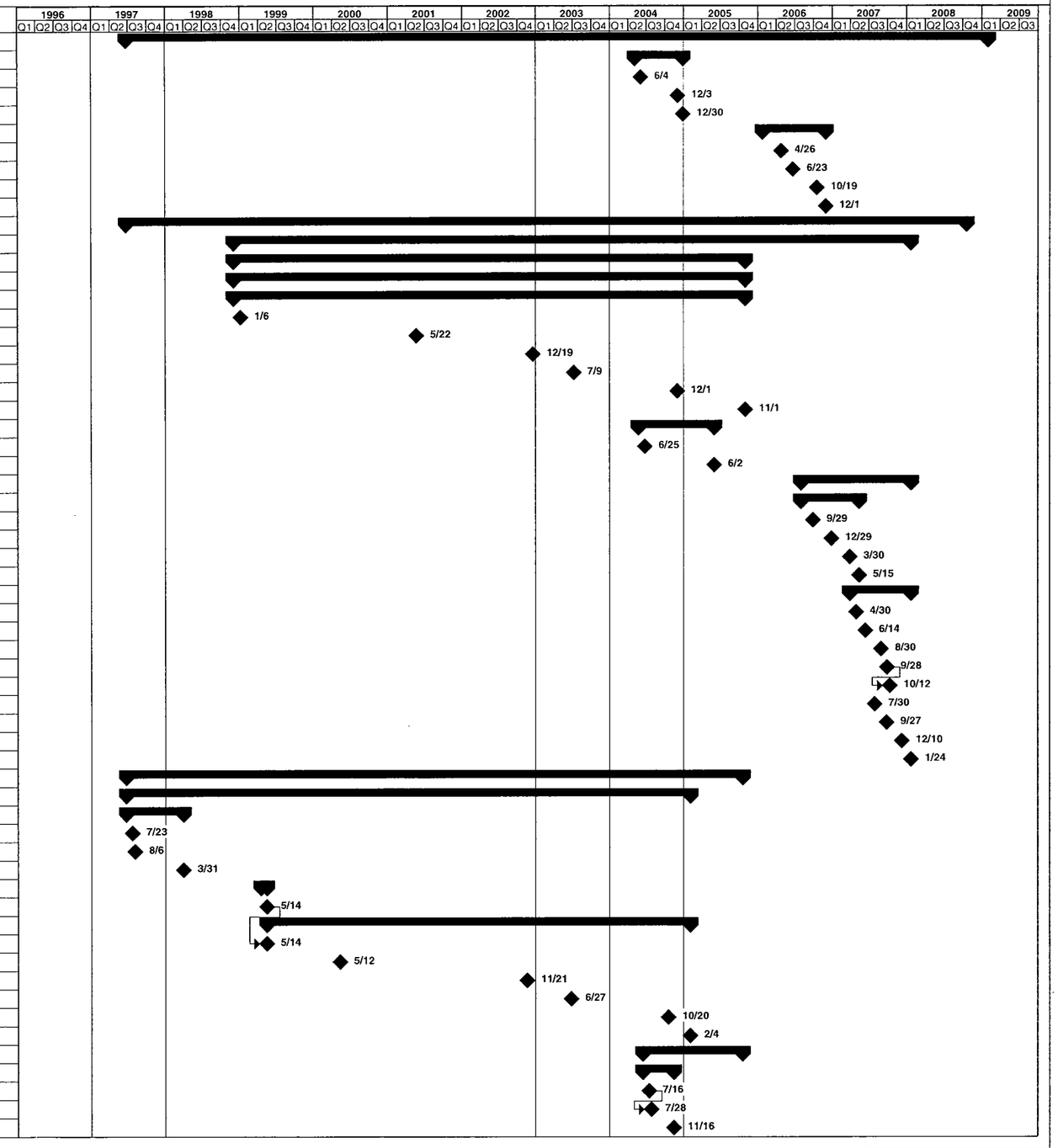
MILESTONE AND DETAILED SCHEDULES

- Milestone Schedule
- Detailed Schedule

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
1		**NSB-NLON IRP**	**4243 days**	**Tue 6/24/97**	**Tue 2/3/09**	**33%**		
2		**ANNUAL SITE MANAGEMENT PLAN UPDATE**	**238 days**	**Fri 5/7/04**	**Thu 12/30/04**	**89%**		
4	✓	DRAFT 2004 SMP	0 days	Fri 6/4/04	Fri 6/4/04	100%	3	A/E,NAVY
8	✓	DRAFT FINAL 2004 SMP	0 days	Fri 12/3/04	Fri 12/3/04	100%	7	A/E,NAVY
11		FINAL 2004 SMP	0 days	Thu 12/30/04	Thu 12/30/04	0%	10	A/E,NAVY
12		**SECOND 5-YEAR REVIEW REPORT**	**309 days**	**Fri 1/27/06**	**Fri 12/1/06**	**0%**		
14		ROUGH DRAFT SECOND 5-YEAR REVIEW REPORT	0 days	Wed 4/26/06	Wed 4/26/06	0%	13	A/E,NAVY
18		DRAFT SECOND 5-YEAR REVIEW REPORT	0 days	Fri 6/23/06	Fri 6/23/06	0%	17	A/E,NAVY
22		DRAFT FINAL SECOND 5-YEAR REVIEW REPORT	0 days	Thu 10/19/06	Thu 10/19/06	0%	21	A/E,NAVY
25		FINAL SECOND 5-YEAR REVIEW REPORT	0 days	Fri 12/1/06	Fri 12/1/06	0%	24	A/E,NAVY
26		**SITES 2A,2B,3,4,6,7,8,14,16,18, and 20**	**4139 days**	**Tue 6/24/97**	**Wed 10/22/08**	**49%**		
27		**SITE 2 - AREA A LANDFILL AND WETLAND**	**3339 days**	**Fri 12/4/98**	**Thu 1/24/08**	**19%**		
28		**SITE 2 - AREA A LANDFILL (Soil - OU1)**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**71%**		
29		**POST-CONSTRUCTION MONITORING**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**71%**		
30		**LONG-TERM GROUNDWATER MONITORING**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**78%**		
32	✓	FINAL GROUNDWATER MONITORING PLAN	0 days	Wed 1/6/99	Wed 1/6/99	100%	31	A/E,NAVY
34	✓	YEAR 1 FINAL REPORT	0 days	Tue 5/22/01	Tue 5/22/01	100%	33	A/E,NAVY
36	✓	YEAR 2 FINAL REPORT	0 days	Thu 12/19/02	Thu 12/19/02	100%	35	A/E,NAVY
38	✓	YEAR 3 FINAL REPORT	0 days	Wed 7/9/03	Wed 7/9/03	100%	37	A/E,NAVY
40		YEAR 4 FINAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	39	A/E,NAVY
42		YEAR 5 FINAL REPORT	0 days	Tue 11/1/05	Tue 11/1/05	0%	41	A/E,NAVY
43		**O&M**	**374 days**	**Tue 5/25/04**	**Thu 6/2/05**	**52%**		
45	✓	YEAR 1 O&M INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	44	A/E,NAVY
47		YEAR 2 O&M INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	46	A/E,NAVY
48		**SITE 2 - AREA A WETLAND (Sediment - OU12)**	**541 days**	**Wed 8/2/06**	**Thu 1/24/08**	**0%**		
49		**FEASIBILITY STUDY**	**287 days**	**Wed 8/2/06**	**Tue 5/15/07**	**0%**		
51		ROUGH DRAFT FS REPORT	0 days	Fri 9/29/06	Fri 9/29/06	0%	50	A/E,NAVY
55		DRAFT FS REPORT	0 days	Fri 12/29/06	Fri 12/29/06	0%	54	A/E,NAVY
59		DRAFT FINAL FS REPORT	0 days	Fri 3/30/07	Fri 3/30/07	0%	58	A/E,NAVY
62		FINAL FS REPORT	0 days	Tue 5/15/07	Tue 5/15/07	0%	61	A/E,NAVY
63		**PROPOSED PLAN/ROD**	**300 days**	**Sat 3/31/07**	**Thu 1/24/08**	**0%**		
65		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 4/30/07	Mon 4/30/07	0%	64	A/E,NAVY
69		DRAFT PROPOSED PLAN	0 days	Thu 6/14/07	Thu 6/14/07	0%	68	A/E,NAVY
73		DRAFT FINAL PROPOSED PLAN	0 days	Thu 8/30/07	Thu 8/30/07	0%	72	A/E,NAVY
76		FINAL PROPOSED PLAN	0 days	Fri 9/28/07	Fri 9/28/07	0%	75	A/E,NAVY
77		Public Meeting	0 days	Fri 10/12/07	Fri 10/12/07	0%	76FS+14 days	PUBLIC
79		ROUGH DRAFT ROD	0 days	Mon 7/30/07	Mon 7/30/07	0%	78	A/E,NAVY
83		DRAFT ROD	0 days	Thu 9/27/07	Thu 9/27/07	0%	82	A/E,NAVY
87		DRAFT FINAL ROD	0 days	Mon 12/10/07	Mon 12/10/07	0%	86	A/E,NAVY
90		FINAL ROD	0 days	Thu 1/24/08	Thu 1/24/08	0%	89	A/E,NAVY
91		**SITE 3 - AREA A DOWNSTREAM AND OBDA**	**3042 days**	**Tue 6/24/97**	**Fri 10/21/05**	**64%**		
92		**SOIL AND SEDIMENT (OU3)**	**2783 days**	**Tue 6/24/97**	**Fri 2/4/05**	**95%**		
93	✓	**PROPOSED PLAN/ROD**	**281 days**	**Tue 6/24/97**	**Tue 3/31/98**	**100%**		
95	✓	FINAL PROPOSED PLAN	0 days	Wed 7/23/97	Wed 7/23/97	100%	94	A/E,NAVY
96	✓	Public Meeting	0 days	Wed 8/6/97	Wed 8/6/97	100%		PUBLIC
98	✓	FINAL ROD	0 days	Tue 3/31/98	Tue 3/31/98	100%	97	A/E,NAVY
99	✓	**RD**	**29 days**	**Fri 4/16/99**	**Fri 5/14/99**	**100%**		
101	✓	FINAL RD WORK PLAN	0 days	Fri 5/14/99	Fri 5/14/99	100%	100	A/E,NAVY
102		**RA**	**2093 days**	**Fri 5/14/99**	**Fri 2/4/05**	**94%**		
103	✓	Start of Construction	0 days	Fri 5/14/99	Fri 5/14/99	100%	101	NAVY
105	✓	End of Construction	0 days	Fri 5/12/00	Fri 5/12/00	100%	104	NAVY
107	✓	YEAR 1 SITE RESTORATION MONITORING	0 days	Thu 11/21/02	Thu 11/21/02	100%	106	A/E,NAVY
109	✓	YEAR 2 SITE RESTORATION MONITORING	0 days	Fri 6/27/03	Fri 6/27/03	100%	108	A/E,NAVY
111	✓	YEAR 3 SITE RESTORATION MONITORING	0 days	Wed 10/20/04	Wed 10/20/04	100%	110	A/E,NAVY
113		YEAR 4 RESTORATION MONITORING	0 days	Fri 2/4/05	Fri 2/4/05	0%	112	A/E,NAVY
114		**SITE 3 NSA SOIL**	**493 days**	**Wed 6/16/04**	**Fri 10/21/05**	**16%**		
115	✓	**PROPOSED PLAN/ROD**	**154 days**	**Wed 6/16/04**	**Tue 11/16/04**	**100%**		
117	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	116	A/E,NAVY
118	✓	Public Meeting	0 days	Wed 7/28/04	Wed 7/28/04	100%	117FS+12 days	PUBLIC
120	✓	FINAL ROD	0 days	Tue 11/16/04	Tue 11/16/04	100%	119	A/E,NAVY

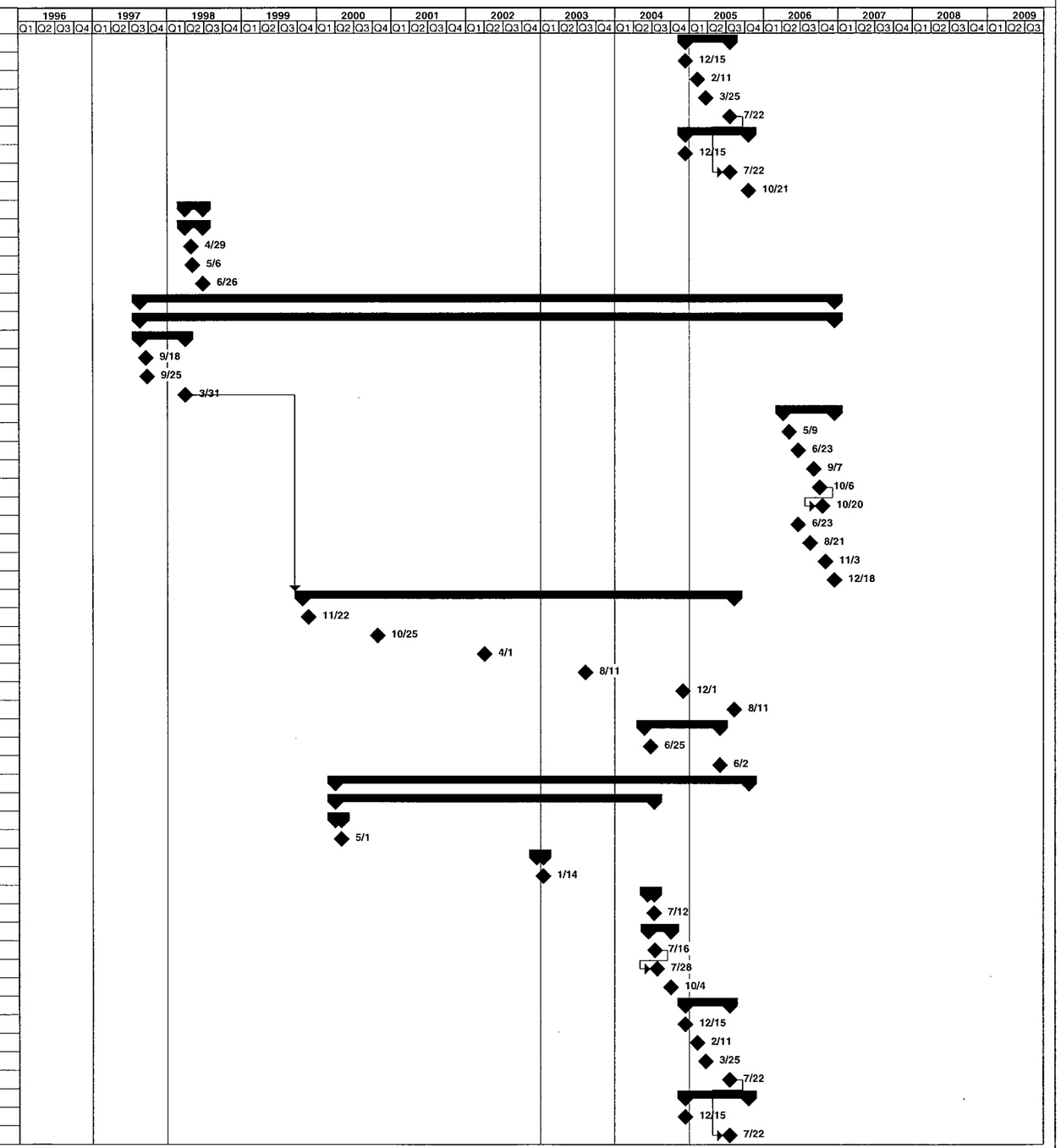


Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
121		**RD**	**220 days**	**Wed 12/15/04**	**Fri 7/22/05**	**0%**		
122		Award RD	0 days	Wed 12/15/04	Wed 12/15/04	0%		A/E,NAVY
124		ROUGH DRAFT RD WORK PLAN	0 days	Fri 2/11/05	Fri 2/11/05	0%	123	NAVY
128		DRAFT RD WORK PLAN	0 days	Fri 3/25/05	Fri 3/25/05	0%	127	A/E,NAVY
132		FINAL RD WORK PLAN	0 days	Fri 7/22/05	Fri 7/22/05	0%	131	A/E,NAVY
133		**RA**	**311 days**	**Wed 12/15/04**	**Fri 10/21/05**	**0%**		
134		Award Construction	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
135		Start of Construction	0 days	Fri 7/22/05	Fri 7/22/05	0%	132	NAVY
137		End of Construction	0 days	Fri 10/21/05	Fri 10/21/05	0%	136	NAVY
138	✓	**SITE 4 - RUBBLE FILL AREA AT BUNKER A-86 (Soil - OU10)**	**88 days**	**Tue 3/31/98**	**Fri 6/26/98**	**100%**		
139	✓	**PROPOSED PLAN/ROD**	**88 days**	**Tue 3/31/98**	**Fri 6/26/98**	**100%**		
141	✓	FINAL PROPOSED PLAN	0 days	Wed 4/29/98	Wed 4/29/98	100%	140	A/E,NAVY
142	✓	Public Meeting	0 days	Wed 5/6/98	Wed 5/6/98	100%		PUBLIC
144	✓	FINAL ROD	0 days	Fri 6/26/98	Fri 6/26/98	100%	143	A/E,NAVY
145		**SITE 6 - DRMO (OU2)**	**3408 days**	**Wed 8/20/97**	**Mon 12/18/06**	**33%**		
146		**PROPOSED PLAN/ROD**	**3408 days**	**Wed 8/20/97**	**Mon 12/18/06**	**13%**		
147	✓	**Interim Proposed Plan/ROD (Soil and Groundwater)**	**224 days**	**Wed 8/20/97**	**Tue 3/31/98**	**100%**		
149	✓	FINAL PROPOSED PLAN	0 days	Thu 9/18/97	Thu 9/18/97	100%	148	A/E,NAVY
150	✓	Public Meeting	0 days	Thu 9/25/97	Thu 9/25/97	100%		PUBLIC
152	✓	FINAL INTERIM ROD	0 days	Tue 3/31/98	Tue 3/31/98	100%	151	A/E,NAVY
153		**Final Proposed Plan/ROD (Soil and Groundwater)**	**253 days**	**Mon 4/10/06**	**Mon 12/18/06**	**0%**		
155		ROUGH DRAFT PROPOSED PLAN	0 days	Tue 5/9/06	Tue 5/9/06	0%	154	A/E,NAVY
159		DRAFT PROPOSED PLAN	0 days	Fri 6/23/06	Fri 6/23/06	0%	158	A/E,NAVY
163		DRAFT FINAL PROPOSED PLAN	0 days	Thu 9/7/06	Thu 9/7/06	0%	162	A/E,NAVY
166		FINAL PROPOSED PLAN	0 days	Fri 10/6/06	Fri 10/6/06	0%	165	A/E,NAVY
167		Public Meeting	0 days	Fri 10/20/06	Fri 10/20/06	0%	166FS+14 days	PUBLIC
169		ROUGH DRAFT ROD	0 days	Fri 6/23/06	Fri 6/23/06	0%	168	A/E,NAVY
173		DRAFT ROD	0 days	Mon 8/21/06	Mon 8/21/06	0%	172	A/E,NAVY
177		DRAFT FINAL ROD	0 days	Fri 11/3/06	Fri 11/3/06	0%	176	A/E,NAVY
180		FINAL ROD	0 days	Mon 12/18/06	Mon 12/18/06	0%	179	A/E,NAVY
181		**LONG-TERM GROUNDWATER MONITORING**	**2119 days**	**Sun 10/24/99**	**Thu 8/11/05**	**77%**	**152**	
183	✓	YEAR 1 ANNUAL REPORT	0 days	Mon 11/22/99	Mon 11/22/99	100%	182	A/E,NAVY
185	✓	YEAR 2 ANNUAL REPORT	0 days	Wed 10/25/00	Wed 10/25/00	100%	184	A/E,NAVY
187	✓	YEAR 3 ANNUAL REPORT	0 days	Mon 4/1/02	Mon 4/1/02	100%	186	A/E,NAVY
189	✓	YEAR 4 ANNUAL REPORT	0 days	Mon 8/11/03	Mon 8/11/03	100%	188	A/E,NAVY
191		YEAR 5 ANNUAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	190	A/E,NAVY
193		YEAR 6 ANNUAL REPORT	0 days	Thu 8/11/05	Thu 8/11/05	0%	192	A/E,NAVY
194		**OPERATION AND MAINTENANCE**	**374 days**	**Tue 5/25/04**	**Thu 6/2/05**	**52%**		
196	✓	YEAR 1 O&M INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	195	A/E,NAVY
198		YEAR 2 O&M INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	197	A/E,NAVY
199		**SITE 7 - TORPEDO SHOPS (Soil - OU8)**	**2031 days**	**Sat 4/1/00**	**Sat 10/22/05**	**43%**		
200	✓	**RI/FS**	**1564 days**	**Sat 4/1/00**	**Mon 7/12/04**	**100%**		
201	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
203	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	202	A/E,NAVY
206	✓	**RI Report**	**32 days**	**Sat 12/14/02**	**Tue 1/14/03**	**100%**		
208	✓	FINAL RI REPORT	0 days	Tue 1/14/03	Tue 1/14/03	100%	207	A/E,NAVY
209	✓	**RI Update/Feasibility Study**	**32 days**	**Fri 6/11/04**	**Mon 7/12/04**	**100%**		
211	✓	FINAL RI UPDATE/FS REPORT	0 days	Mon 7/12/04	Mon 7/12/04	100%	210	A/E,NAVY
212	✓	**PROPOSED PLAN/ROD**	**111 days**	**Wed 6/16/04**	**Mon 10/4/04**	**100%**		
214	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	213	A/E,NAVY
215	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	214FS+12 days	PUBLIC
217	✓	FINAL ROD	0 days	Mon 10/4/04	Mon 10/4/04	100%	216	A/E,NAVY
218		**RD**	**220 days**	**Wed 12/15/04**	**Fri 7/22/05**	**0%**		
219		Award RD	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
221		ROUGH DRAFT WORK PLAN	0 days	Fri 2/11/05	Fri 2/11/05	0%	220	NAVY
225		DRAFT RD WORK PLAN	0 days	Fri 3/25/05	Fri 3/25/05	0%	224	NAVY
229		FINAL RD WORK PLAN	0 days	Fri 7/22/05	Fri 7/22/05	0%	228	NAVY
230		**RA**	**312 days**	**Wed 12/15/04**	**Sat 10/22/05**	**0%**		
231		Award Construction	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
232		Start of Construction	0 days	Fri 7/22/05	Fri 7/22/05	0%	229	NAVY



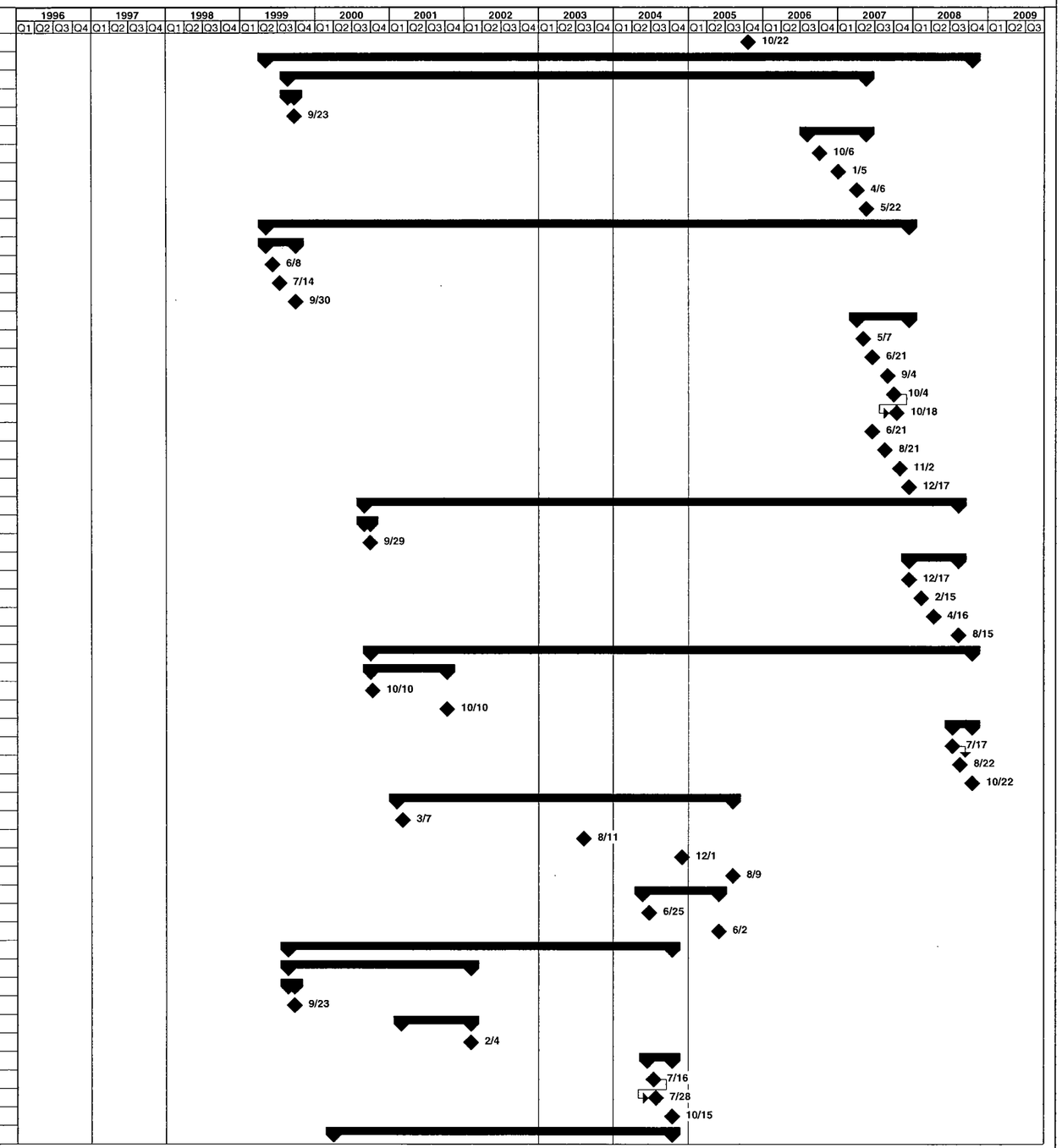
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
234		End of Construction	0 days	Sat 10/22/05	Sat 10/22/05	0%	233	NAVY
235		**SITE 8 - GOSS COVE LANDFILL (OU5)**	**3456 days**	**Sat 5/8/99**	**Wed 10/22/08**	**37%**		
236		**FEASIBILITY STUDY**	**2830 days**	**Mon 8/23/99**	**Tue 5/22/07**	**10%**		
237	✓	**Soil, Sediment, and Surface Water**	**32 days**	**Mon 8/23/99**	**Thu 9/23/99**	**100%**		
239	✓	FINAL FS REPORT	0 days	Thu 9/23/99	Thu 9/23/99	100%	238	A/E,NAVY
240		**Groundwater**	**287 days**	**Wed 8/9/06**	**Tue 5/22/07**	**0%**		
242		ROUGH DRAFT FS REPORT	0 days	Fri 10/6/06	Fri 10/6/06	0%	241	A/E,NAVY
246		DRAFT FS REPORT	0 days	Fri 1/5/07	Fri 1/5/07	0%	245	A/E,NAVY
250		DRAFT FINAL FS REPORT	0 days	Fri 4/6/07	Fri 4/6/07	0%	249	A/E,NAVY
253		FINAL FS REPORT	0 days	Tue 5/22/07	Tue 5/22/07	0%	252	A/E,NAVY
254		**PROPOSED PLAN/ROD**	**3146 days**	**Sat 5/8/99**	**Mon 12/17/07**	**14%**		
255	✓	**Soil, Sediment, and Surface Water**	**146 days**	**Sat 5/8/99**	**Thu 9/30/99**	**100%**		
257	✓	FINAL PROPOSED PLAN	0 days	Tue 6/8/99	Tue 6/8/99	100%	256	A/E,NAVY
258	✓	Public Meeting	0 days	Wed 7/14/99	Wed 7/14/99	100%		PUBLIC
260	✓	FINAL ROD	0 days	Thu 9/30/99	Thu 9/30/99	100%	259	A/E,NAVY
261		**Groundwater**	**255 days**	**Sat 4/7/07**	**Mon 12/17/07**	**0%**		
263		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 5/7/07	Mon 5/7/07	0%	262	A/E,NAVY
267		DRAFT PROPOSED PLAN	0 days	Thu 6/21/07	Thu 6/21/07	0%	266	A/E,NAVY
271		DRAFT FINAL PROPOSED PLAN	0 days	Tue 9/4/07	Tue 9/4/07	0%	270	A/E,NAVY
274		FINAL PROPOSED PLAN	0 days	Thu 10/4/07	Thu 10/4/07	0%	273	A/E,NAVY
275		Public Meeting	0 days	Thu 10/18/07	Thu 10/18/07	0%	274FS+14 days	PUBLIC
277		ROUGH DRAFT ROD	0 days	Thu 6/21/07	Thu 6/21/07	0%	276	A/E,NAVY
281		DRAFT ROD	0 days	Tue 8/21/07	Tue 8/21/07	0%	280	A/E,NAVY
285		DRAFT FINAL ROD	0 days	Fri 11/2/07	Fri 11/2/07	0%	284	A/E,NAVY
288		FINAL ROD	0 days	Mon 12/17/07	Mon 12/17/07	0%	287	A/E,NAVY
289		**RD**	**2908 days**	**Wed 8/30/00**	**Fri 8/15/08**	**11%**		
290	✓	**Soil**	**31 days**	**Wed 8/30/00**	**Fri 9/29/00**	**100%**		
292	✓	Final RD	0 days	Fri 9/29/00	Fri 9/29/00	100%	291	A/E,NAVY
293		**Groundwater**	**242 days**	**Mon 12/17/07**	**Fri 8/15/08**	**0%**		
294		Award RD	0 days	Mon 12/17/07	Mon 12/17/07	0%	287	A/E,NAVY
296		ROUGH DRAFT WORK PLAN	0 days	Fri 2/15/08	Fri 2/15/08	0%	295	A/E,NAVY
299		DRAFT RD WORK PLAN	0 days	Wed 4/16/08	Wed 4/16/08	0%	298	A/E,NAVY
303		FINAL RD WORK PLAN	0 days	Fri 8/15/08	Fri 8/15/08	0%	302	A/E,NAVY
304		**RA**	**2944 days**	**Sun 10/1/00**	**Wed 10/22/08**	**86%**		
305	✓	**Soil**	**375 days**	**Sun 10/1/00**	**Wed 10/10/01**	**100%**		
307	✓	Start of Construction	0 days	Tue 10/10/00	Tue 10/10/00	100%	306	NAVY
309	✓	End of Construction	0 days	Wed 10/10/01	Wed 10/10/01	100%	308	NAVY
310		**Groundwater**	**97 days**	**Thu 7/17/08**	**Wed 10/22/08**	**0%**		
311		Award Construction	0 days	Thu 7/17/08	Thu 7/17/08	0%	301	NAVY
312		Start Construction	0 days	Fri 8/22/08	Fri 8/22/08	0%	311FS+36 days	NAVY
314		Complete Construction	0 days	Wed 10/22/08	Wed 10/22/08	0%	313	NAVY
315		**LONG-TERM GROUNDWATER MONITORING**	**1646 days**	**Tue 2/6/01**	**Tue 8/9/05**	**66%**		
317	✓	FINAL GROUNDWATER MONITORING PLAN	0 days	Wed 3/7/01	Wed 3/7/01	100%	316	A/E,NAVY
319	✓	YEAR 1 ANNUAL REPORT	0 days	Mon 8/11/03	Mon 8/11/03	100%	318	A/E,NAVY
321		YEAR 2 ANNUAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	320	A/E,NAVY
323		YEAR 3 ANNUAL REPORT	0 days	Tue 8/9/05	Tue 8/9/05	0%	322	A/E,NAVY
324		**O&M**	**375 days**	**Mon 5/24/04**	**Thu 6/2/05**	**52%**		
326	✓	YEAR 1 INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	325	A/E,NAVY
328		YEAR 2 INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	327	A/E,NAVY
329	✓	**SITE 14 - OBDANE (Soil - OU8)**	**1881 days**	**Mon 8/23/99**	**Fri 10/15/04**	**100%**		
330	✓	**Non-Time-Critical Removal Action**	**897 days**	**Mon 8/23/99**	**Mon 2/4/02**	**100%**		
331	✓	**Action Memorandum and EE/CA**	**32 days**	**Mon 8/23/99**	**Thu 9/23/99**	**100%**		
333	✓	FINAL AM and EE/CA	0 days	Thu 9/23/99	Thu 9/23/99	100%	332	A/E,NAVY
334	✓	**Removal Action**	**341 days**	**Thu 3/1/01**	**Mon 2/4/02**	**100%**		
337	✓	FINAL REMOVAL ACTION REPORT	0 days	Mon 2/4/02	Mon 2/4/02	100%	336	NAVY
338	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
340	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	339	A/E,NAVY
341	✓	Public Meeting	0 days	Wed 7/28/04	Wed 7/28/04	100%	340FS+12 days	PUBLIC
343	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	342	A/E,NAVY
344	✓	**SITE 16 - HOSPITAL INCINERATORS (Soil - OU11)**	**1659 days**	**Sat 4/1/00**	**Fri 10/15/04**	**100%**		



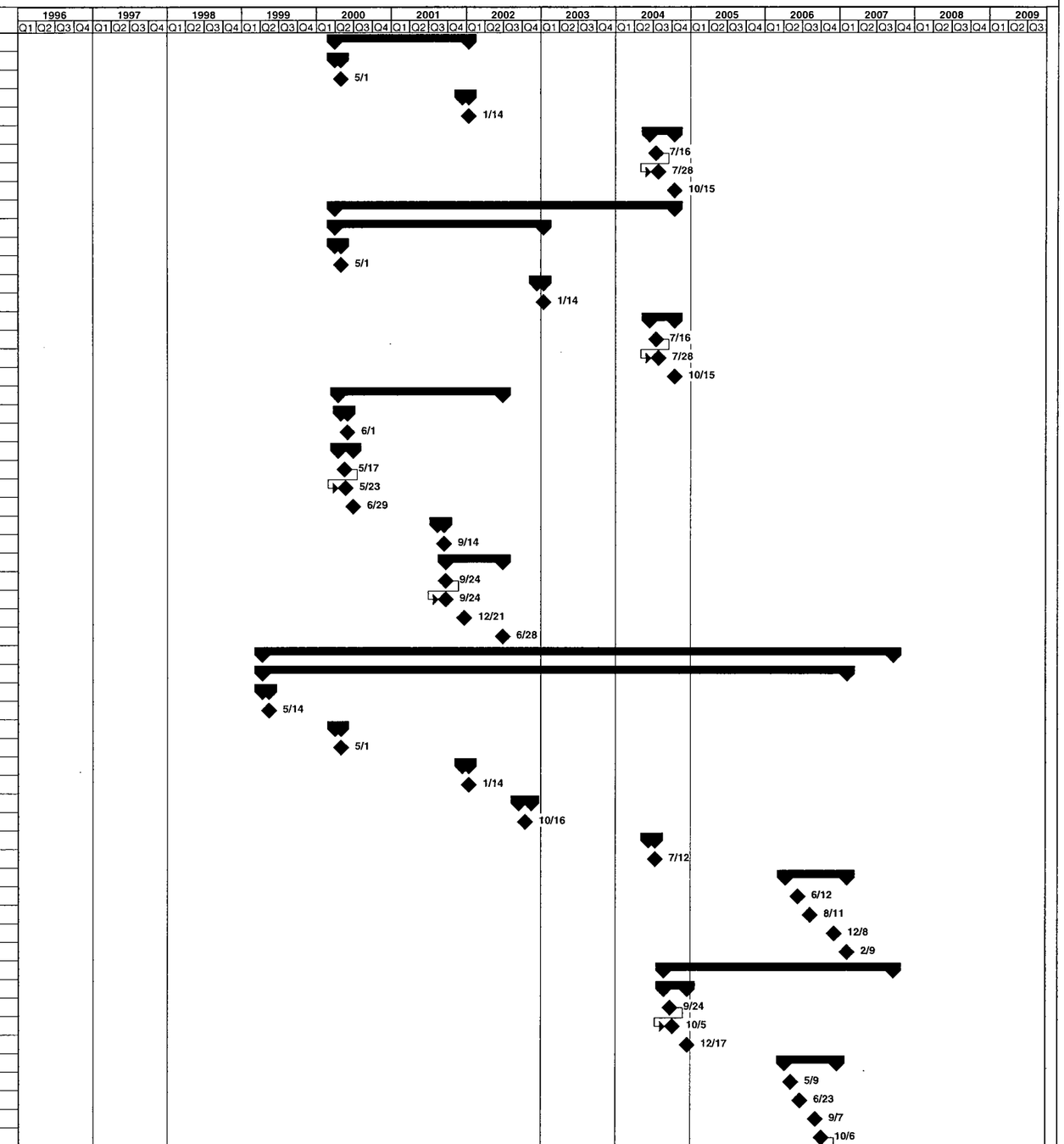
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
345	✓	**REMEDIAL INVESTIGATION**	**654 days**	**Sat 4/1/00**	**Mon 1/14/02**	**100%**		
346	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
348	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	347	A/E,NAVY
351	✓	**RI Report**	**32 days**	**Fri 12/14/01**	**Mon 1/14/02**	**100%**		
353	✓	FINAL RI REPORT	0 days	Mon 1/14/02	Mon 1/14/02	100%	352	A/E,NAVY
354	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
356	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	355	A/E,NAVY
357	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	356FS+12 days	PUBLIC
359	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	358	A/E,NAVY
360	✓	**SITE 18 - SOLVENT STORAGE AREA, BLDG. 33 (Soil - OU11)**	**1659 days**	**Sat 4/1/00**	**Fri 10/15/04**	**100%**		
361	✓	**REMEDIAL INVESTIGATION**	**1019 days**	**Sat 4/1/00**	**Tue 1/14/03**	**100%**		
362	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
364	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	363	A/E,NAVY
367	✓	**RI Report**	**32 days**	**Sat 12/14/02**	**Tue 1/14/03**	**100%**		
369	✓	FINAL RI REPORT	0 days	Tue 1/14/03	Tue 1/14/03	100%	368	A/E,NAVY
370	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
372	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	371	A/E,NAVY
373	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	372FS+12 days	PUBLIC
375	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	374	A/E,NAVY
376	✓	**SITE 20 - AREA A WEAPONS CENTER (Soil and Sediment - OU7)**	**803 days**	**Mon 4/17/00**	**Fri 6/28/02**	**100%**		
377	✓	**FEASIBILITY STUDY**	**32 days**	**Mon 5/1/00**	**Thu 6/1/00**	**100%**		
379	✓	FINAL FS REPORT	0 days	Thu 6/1/00	Thu 6/1/00	100%	378	A/E,NAVY
380	✓	**PROPOSED PLAN/ROD**	**74 days**	**Mon 4/17/00**	**Thu 6/29/00**	**100%**		
382	✓	FINAL PROPOSED PLAN	0 days	Wed 5/17/00	Wed 5/17/00	100%	381	A/E,NAVY
383	✓	PUBLIC MEETING	0 days	Tue 5/23/00	Tue 5/23/00	100%	382FS+6 days	PUBLIC
385	✓	FINAL ROD	0 days	Thu 6/29/00	Thu 6/29/00	100%	384	A/E,NAVY
386	✓	**RD**	**32 days**	**Tue 8/14/01**	**Fri 9/14/01**	**100%**		
388	✓	FINAL RD	0 days	Fri 9/14/01	Fri 9/14/01	100%	387	A/E,NAVY
389	✓	**RA**	**278 days**	**Mon 9/24/01**	**Fri 6/28/02**	**100%**		
390	✓	Award Construction	0 days	Mon 9/24/01	Mon 9/24/01	100%		NAVY
391	✓	Start of Construction	0 days	Mon 9/24/01	Mon 9/24/01	100%	390	NAVY
393	✓	End of Construction	0 days	Fri 12/21/01	Fri 12/21/01	100%	392	NAVY
395	✓	FINAL REMEDIAL ACTION REPORT	0 days	Fri 6/28/02	Fri 6/28/02	100%	394	NAVY
396		**BASEWIDE GROUNDWATER OPERABLE UNIT (OU9)**	**3087 days**	**Tue 4/13/99**	**Mon 9/24/07**	**12%**		
397		**RI/FS**	**2860 days**	**Tue 4/13/99**	**Fri 2/9/07**	**45%**		
398	✓	**EDSR**	**32 days**	**Tue 4/13/99**	**Fri 5/14/99**	**100%**		
400	✓	FINAL EDSR	0 days	Fri 5/14/99	Fri 5/14/99	100%	399	A/E,NAVY
401	✓	**Work Plan**	**29 days**	**Mon 4/3/00**	**Mon 5/1/00**	**100%**		
403	✓	FINAL RI WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	402	A/E,NAVY
406	✓	**RI Report**	**32 days**	**Fri 12/14/01**	**Mon 1/14/02**	**100%**		
408	✓	FINAL RI REPORT	0 days	Mon 1/14/02	Mon 1/14/02	100%	407	A/E,NAVY
409	✓	**DGI**	**61 days**	**Mon 9/16/02**	**Fri 11/15/02**	**100%**		
411	✓	FINAL WORK PLAN	0 days	Wed 10/16/02	Wed 10/16/02	100%	410	A/E,NAVY
413	✓	**RI Update/Feasibility Study**	**32 days**	**Fri 6/11/04**	**Mon 7/12/04**	**100%**		
415	✓	FINAL RI UPDATE/FS REPORT	0 days	Mon 7/12/04	Mon 7/12/04	100%	414	A/E,NAVY
416		**Fuel Farm (Site 23)**	**302 days**	**Fri 4/14/06**	**Fri 2/9/07**	**0%**		
418		ROUGH DRAFT RI UPDATE/FS	0 days	Mon 6/12/06	Mon 6/12/06	0%	417	A/E,NAVY
422		DRAFT RI UPDATE/FS	0 days	Fri 8/11/06	Fri 8/11/06	0%	421	A/E,NAVY
426		DRAFT FINAL RI UPDATE/FS	0 days	Fri 12/8/06	Fri 12/8/06	0%	425	A/E,NAVY
430		FINAL RI UPDATE/FS	0 days	Fri 2/9/07	Fri 2/9/07	0%	429	A/E,NAVY
431		**PROPOSED PLAN/ROD**	**1126 days**	**Wed 8/25/04**	**Mon 9/24/07**	**4%**		
432		**Sites 3, 7, 14, 15, 18 and 20**	**115 days**	**Wed 8/25/04**	**Fri 12/17/04**	**51%**		
434	✓	FINAL PROPOSED PLAN	0 days	Fri 9/24/04	Fri 9/24/04	100%	433	A/E,NAVY
435	✓	Public Meeting	0 days	Tue 10/5/04	Tue 10/5/04	100%	434FS+11 days	PUBLIC
437		FINAL INTERIM ROD	0 days	Fri 12/17/04	Fri 12/17/04	0%	436	A/E,NAVY
438		**Site 2**	**257 days**	**Mon 4/10/06**	**Fri 12/22/06**	**0%**		
440		ROUGH DRAFT PROPOSED PLAN	0 days	Tue 5/9/06	Tue 5/9/06	0%	439	A/E,NAVY
444		DRAFT PROPOSED PLAN	0 days	Fri 6/23/06	Fri 6/23/06	0%	443	A/E,NAVY
448		DRAFT FINAL PROPOSED PLAN	0 days	Thu 9/7/06	Thu 9/7/06	0%	447	A/E,NAVY
451		FINAL PROPOSED PLAN	0 days	Fri 10/6/06	Fri 10/6/06	0%	450	A/E,NAVY



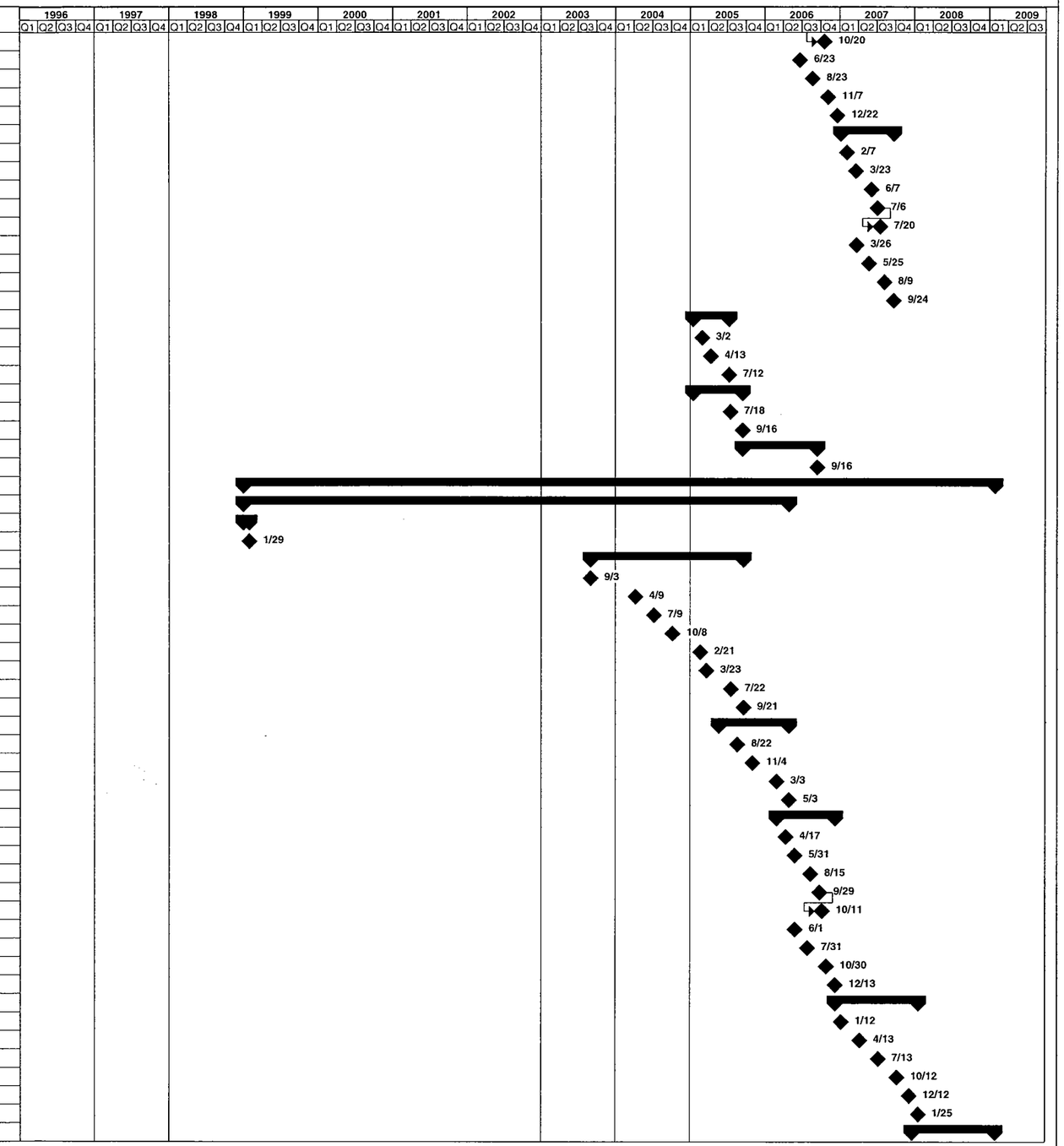
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
452		Public Meeting	0 days	Fri 10/20/06	Fri 10/20/06	0%	451FS+14 days	PUBLIC
454		ROUGH DRAFT ROD	0 days	Fri 6/23/06	Fri 6/23/06	0%	453	A/E,NAVY
458		DRAFT ROD	0 days	Wed 8/23/06	Wed 8/23/06	0%	457	A/E,NAVY
462		DRAFT FINAL ROD	0 days	Tue 11/7/06	Tue 11/7/06	0%	461	A/E,NAVY
465		FINAL ROD	0 days	Fri 12/22/06	Fri 12/22/06	0%	464	A/E,NAVY
466		**Sites 9 and 23**	**259 days**	**Tue 1/9/07**	**Mon 9/24/07**	**0%**		
468		ROUGH DRAFT PROPOSED PLAN	0 days	Wed 2/7/07	Wed 2/7/07	0%	467	A/E,NAVY
472		DRAFT PROPOSED PLAN	0 days	Fri 3/23/07	Fri 3/23/07	0%	471	A/E,NAVY
476		DRAFT FINAL PROPOSED PLAN	0 days	Thu 6/7/07	Thu 6/7/07	0%	475	A/E,NAVY
479		FINAL PROPOSED PLAN	0 days	Fri 7/6/07	Fri 7/6/07	0%	478	A/E,NAVY
480		Public Meeting	0 days	Fri 7/20/07	Fri 7/20/07	0%	479FS+14 days	PUBLIC
482		ROUGH DRAFT ROD	0 days	Mon 3/26/07	Mon 3/26/07	0%	481	A/E,NAVY
486		DRAFT ROD	0 days	Fri 5/25/07	Fri 5/25/07	0%	485	A/E,NAVY
490		DRAFT FINAL ROD	0 days	Thu 8/9/07	Thu 8/9/07	0%	489	A/E,NAVY
493		FINAL ROD	0 days	Mon 9/24/07	Mon 9/24/07	0%	492	A/E,NAVY
494		**RD (Sites 3 and 7)**	**177 days**	**Mon 1/17/05**	**Tue 7/12/05**	**0%**		
496		ROUGH DRAFT RD WORK PLAN	0 days	Wed 3/2/05	Wed 3/2/05	0%	495	A/E,NAVY
500		DRAFT RD WORK PLAN	0 days	Wed 4/13/05	Wed 4/13/05	0%	499	A/E,NAVY
504		FINAL RD WORK PLAN	0 days	Tue 7/12/05	Tue 7/12/05	0%	503	A/E,NAVY
505		**RA (Sites 3 and 7)**	**243 days**	**Mon 1/17/05**	**Fri 9/16/05**	**0%**		
508		Start of Construction	0 days	Mon 7/18/05	Mon 7/18/05	0%	507	NAVY
510		End of Construction	0 days	Fri 9/16/05	Fri 9/16/05	0%	509	NAVY
511		**LONG-TERM GROUNDWATER MONITORING (Sites 3 and 7)**	**365 days**	**Sat 9/17/05**	**Sat 9/16/06**	**0%**		
513		YEAR 1 ANNUAL REPORT	0 days	Sat 9/16/06	Sat 9/16/06	0%	512	A/E,NAVY
514		**LOWER SUBASE SITES 10,11,13,17,19,21,22,24,25, and Thames River**	**3688 days**	**Thu 12/31/98**	**Tue 2/3/09**	**12%**		
515		**RI/FS**	**2681 days**	**Thu 12/31/98**	**Wed 5/3/06**	**29%**		
516	✓	**Remedial Investigation**	**30 days**	**Thu 12/31/98**	**Fri 1/29/99**	**100%**		
518	✓	FINAL RI REPORT	0 days	Fri 1/29/99	Fri 1/29/99	100%	517	A/E,NAVY
519		**Thames River Ecological Investigation Report**	**750 days**	**Wed 9/3/03**	**Wed 9/21/05**	**43%**		
520	✓	Final Survey Report	0 days	Wed 9/3/03	Wed 9/3/03	100%		A/E,NAVY
522	✓	DRAFT WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 4/9/04	Fri 4/9/04	100%	521	A/E,NAVY
526	✓	DRAFT FINAL WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 7/9/04	Fri 7/9/04	100%	525	A/E,NAVY
529	✓	FINAL WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 10/8/04	Fri 10/8/04	100%	528	A/E,NAVY
534		ROUGH DRAFT ECO INV REPORT	0 days	Mon 2/21/05	Mon 2/21/05	0%	533	A/E,NAVY
537		DRAFT ECO INV REPORT	0 days	Wed 3/23/05	Wed 3/23/05	0%	536	A/E,NAVY
541		DRAFT FINAL ECO INV REPORT	0 days	Fri 7/22/05	Fri 7/22/05	0%	540	A/E,NAVY
544		FINAL ECO INV REPORT	0 days	Wed 9/21/05	Wed 9/21/05	0%	543	A/E,NAVY
545		**Feasibility Study (SO, GW, and Thames River SD)**	**345 days**	**Tue 5/24/05**	**Wed 5/3/06**	**0%**		
547		ROUGH DRAFT FS	0 days	Mon 8/22/05	Mon 8/22/05	0%	546	A/E,NAVY
551		DRAFT FS REPORT	0 days	Fri 11/4/05	Fri 11/4/05	0%	550	A/E,NAVY
555		DRAFT FINAL FS REPORT	0 days	Fri 3/3/06	Fri 3/3/06	0%	554	A/E,NAVY
558		FINAL FS REPORT	0 days	Wed 5/3/06	Wed 5/3/06	0%	557	A/E,NAVY
559		**PROPOSED PLAN/ROD (Zones and Thames River - OU4)**	**285 days**	**Sat 3/4/06**	**Wed 12/13/06**	**0%**		
561		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 4/17/06	Mon 4/17/06	0%	560	A/E,NAVY
565		DRAFT PROPOSED PLAN	0 days	Wed 5/31/06	Wed 5/31/06	0%	564	A/E,NAVY
569		DRAFT FINAL PROPOSED PLAN	0 days	Tue 8/15/06	Tue 8/15/06	0%	568	A/E,NAVY
572		FINAL PROPOSED PLAN	0 days	Fri 9/29/06	Fri 9/29/06	0%	571	A/E,NAVY
573		PUBLIC MEETING	0 days	Wed 10/11/06	Wed 10/11/06	0%	572FS+12 days	PUBLIC
575		ROUGH DRAFT ROD	0 days	Thu 6/1/06	Thu 6/1/06	0%	574	A/E,NAVY
579		DRAFT ROD	0 days	Mon 7/31/06	Mon 7/31/06	0%	578	A/E,NAVY
583		DRAFT FINAL ROD	0 days	Mon 10/30/06	Mon 10/30/06	0%	582	A/E,NAVY
586		FINAL ROD	0 days	Wed 12/13/06	Wed 12/13/06	0%	585	A/E,NAVY
587		**RD**	**408 days**	**Thu 12/14/06**	**Fri 1/25/08**	**0%**		
589		SCOPE OF WORK FOR RD/RA	0 days	Fri 1/12/07	Fri 1/12/07	0%	588	A/E,NAVY
592		RD WORK PLAN (35%)	0 days	Fri 4/13/07	Fri 4/13/07	0%	591	A/E,NAVY
595		60% RD	0 days	Fri 7/13/07	Fri 7/13/07	0%	594	A/E,NAVY
598		85% RD	0 days	Fri 10/12/07	Fri 10/12/07	0%	597	A/E,NAVY
601		FINAL RD	0 days	Wed 12/12/07	Wed 12/12/07	0%	600	A/E,NAVY
604		RAWP(Secondary)	0 days	Fri 1/25/08	Fri 1/25/08	0%	603	NAVY
605		**RA**	**405 days**	**Thu 12/27/07**	**Tue 2/3/09**	**0%**		



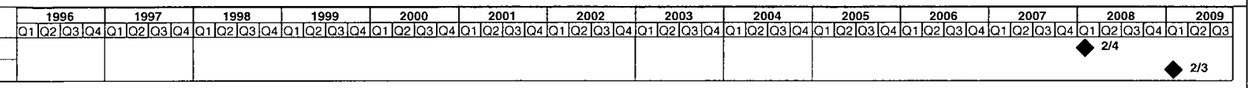
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE - MILESTONES
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
608		Start of Construction	0 days	Mon 2/4/08	Mon 2/4/08	0%	607	NAVY
610		End of Construction	0 days	Tue 2/3/09	Tue 2/3/09	0%	609	NAVY



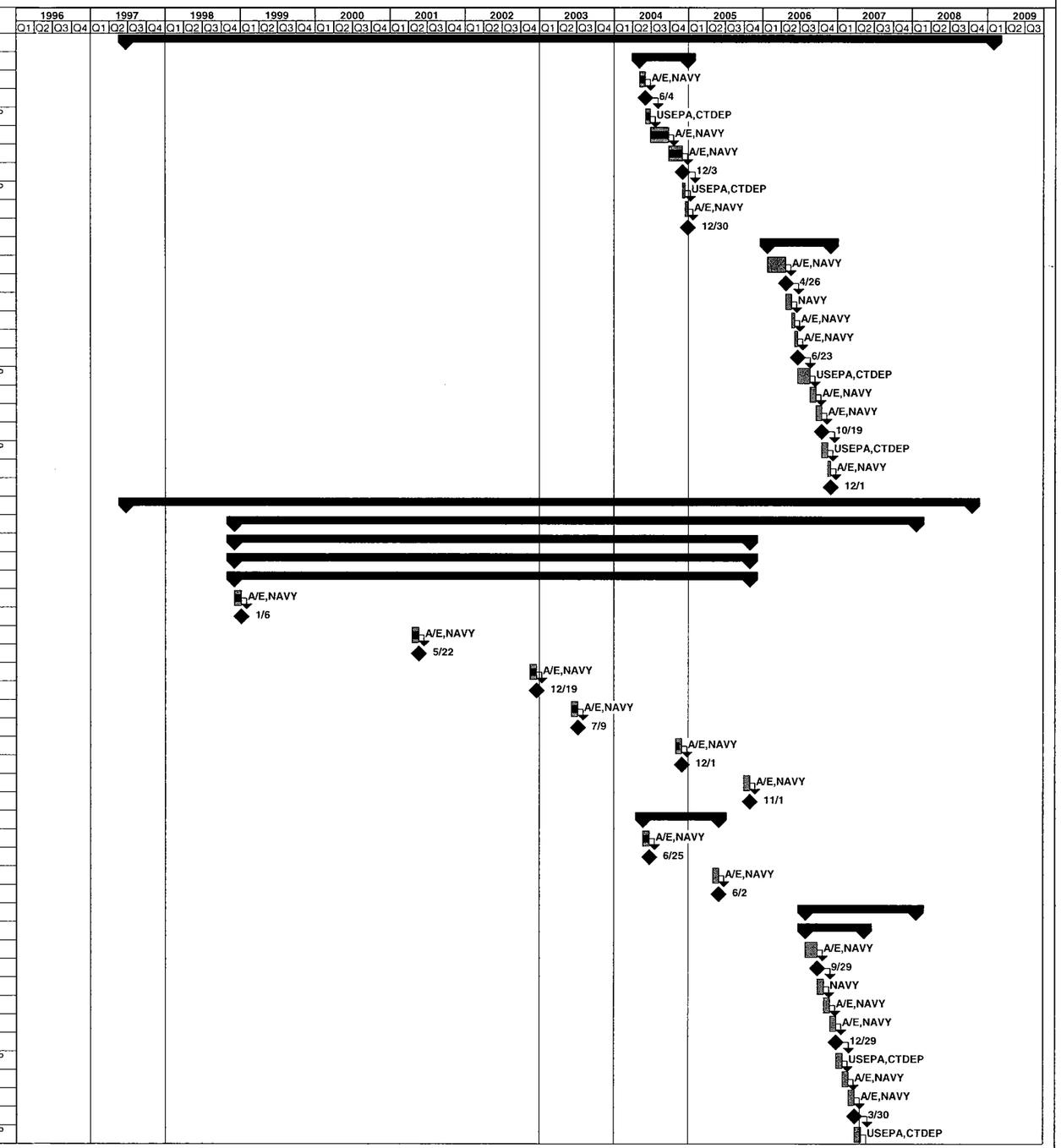
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
1		**NSB-NLON IRP**	**4243 days**	**Tue 6/24/97**	**Tue 2/3/09**	**33%**		
2		**ANNUAL SITE MANAGEMENT PLAN UPDATE**	**238 days**	**Fri 5/7/04**	**Thu 12/30/04**	**89%**		
3	✓	Draft 2004 SMP	29 days	Fri 5/7/04	Fri 6/4/04	100%		A/E,NAVY
4	✓	DRAFT 2004 SMP	0 days	Fri 6/4/04	Fri 6/4/04	100%	3	A/E,NAVY
5	✓	Regulator Review	24 days	Sat 6/5/04	Mon 6/28/04	100%	4	USEPA,CTDEP
6	✓	Resolution of Comments	91 days	Tue 6/29/04	Mon 9/27/04	100%	5	A/E,NAVY
7	✓	Draft Final 2004 SMP	67 days	Tue 9/28/04	Fri 12/3/04	100%	6	A/E,NAVY
8	✓	DRAFT FINAL 2004 SMP	0 days	Fri 12/3/04	Fri 12/3/04	100%	7	A/E,NAVY
9		Regulator Concurrence	14 days	Sat 12/4/04	Fri 12/17/04	0%	8	USEPA,CTDEP
10		Final 2004 SMP	13 days	Sat 12/18/04	Thu 12/30/04	0%	9	A/E,NAVY
11		FINAL 2004 SMP	0 days	Thu 12/30/04	Thu 12/30/04	0%	10	A/E,NAVY
12		**SECOND 5-YEAR REVIEW REPORT**	**309 days**	**Fri 1/27/06**	**Fri 12/1/06**	**0%**		
13		Rough Draft Second 5-Year Review Report	90 days	Fri 1/27/06	Wed 4/26/06	0%		A/E,NAVY
14		ROUGH DRAFT SECOND 5-YEAR REVIEW REPORT	0 days	Wed 4/26/06	Wed 4/26/06	0%	13	A/E,NAVY
15		Navy Review	29 days	Thu 4/27/06	Thu 5/25/06	0%	14	NAVY
16		Resolution of Comments	14 days	Fri 5/26/06	Thu 6/8/06	0%	15	A/E,NAVY
17		Draft Second 5-Year Review Report	15 days	Fri 6/9/06	Fri 6/23/06	0%	16	A/E,NAVY
18		DRAFT SECOND 5-YEAR REVIEW REPORT	0 days	Fri 6/23/06	Fri 6/23/06	0%	17	A/E,NAVY
19		Regulator Review	60 days	Sat 6/24/06	Tue 8/22/06	0%	18	USEPA,CTDEP
20		Resolution of Comments	30 days	Wed 8/23/06	Thu 9/21/06	0%	19	A/E,NAVY
21		Draft Final Second 5-Year Review Report	28 days	Fri 9/22/06	Thu 10/19/06	0%	20	A/E,NAVY
22		DRAFT FINAL SECOND 5-YEAR REVIEW REPORT	0 days	Thu 10/19/06	Thu 10/19/06	0%	21	A/E,NAVY
23		Regulator Concurrence	29 days	Fri 10/20/06	Fri 11/17/06	0%	22	USEPA,CTDEP
24		Final Second 5-Year Review Report	14 days	Sat 11/18/06	Fri 12/1/06	0%	23	A/E,NAVY
25		FINAL SECOND 5-YEAR REVIEW REPORT	0 days	Fri 12/1/06	Fri 12/1/06	0%	24	A/E,NAVY
26		**SITES 2A,2B,3,4,6,7,8,14,16,18, and 20**	**4139 days**	**Tue 6/24/97**	**Wed 10/22/08**	**49%**		
27		**SITE 2 - AREA A LANDFILL AND WETLAND**	**3339 days**	**Fri 12/4/98**	**Thu 1/24/08**	**19%**		
28		**SITE 2 - AREA A LANDFILL (Soil - OU1)**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**71%**		
29		**POST-CONSTRUCTION MONITORING**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**71%**		
30		**LONG-TERM GROUNDWATER MONITORING**	**2525 days**	**Fri 12/4/98**	**Tue 11/1/05**	**78%**		
31	✓	Final Groundwater Monitoring Plan	34 days	Fri 12/4/98	Wed 1/6/99	100%		A/E,NAVY
32	✓	FINAL GROUNDWATER MONITORING PLAN	0 days	Wed 1/6/99	Wed 1/6/99	100%	31	A/E,NAVY
33	✓	Year 1 Final Report	33 days	Fri 4/20/01	Tue 5/22/01	100%		A/E,NAVY
34	✓	YEAR 1 FINAL REPORT	0 days	Tue 5/22/01	Tue 5/22/01	100%	33	A/E,NAVY
35	✓	Year 2 Final Report	32 days	Mon 11/18/02	Thu 12/19/02	100%		A/E,NAVY
36	✓	YEAR 2 FINAL REPORT	0 days	Thu 12/19/02	Thu 12/19/02	100%	35	A/E,NAVY
37	✓	Year 3 Final Report	31 days	Mon 6/9/03	Wed 7/9/03	100%		A/E,NAVY
38	✓	YEAR 3 FINAL REPORT	0 days	Wed 7/9/03	Wed 7/9/03	100%	37	A/E,NAVY
39		Year 4 Final Report	30 days	Tue 11/2/04	Wed 12/1/04	60%		A/E,NAVY
40		YEAR 4 FINAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	39	A/E,NAVY
41		Year 5 Final Report	30 days	Mon 10/3/05	Tue 11/1/05	0%		A/E,NAVY
42		YEAR 5 FINAL REPORT	0 days	Tue 11/1/05	Tue 11/1/05	0%	41	A/E,NAVY
43		**O&M**	**374 days**	**Tue 5/25/04**	**Thu 6/2/05**	**52%**		
44	✓	Year 1 O&M Inspection Report	32 days	Tue 5/25/04	Fri 6/25/04	100%		A/E,NAVY
45	✓	YEAR 1 O&M INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	44	A/E,NAVY
46		Year 2 O&M Inspection Report	30 days	Wed 5/4/05	Thu 6/2/05	0%		A/E,NAVY
47		YEAR 2 O&M INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	46	A/E,NAVY
48		**SITE 2 - AREA A WETLAND (Sediment - OU12)**	**541 days**	**Wed 8/2/06**	**Thu 1/24/08**	**0%**		
49		**FEASIBILITY STUDY**	**287 days**	**Wed 8/2/06**	**Tue 5/15/07**	**0%**		
50		Rough Draft FS Report	59 days	Wed 8/2/06	Fri 9/29/06	0%		A/E,NAVY
51		ROUGH DRAFT FS REPORT	0 days	Fri 9/29/06	Fri 9/29/06	0%	50	A/E,NAVY
52		Navy Review	31 days	Sat 9/30/06	Mon 10/30/06	0%	51	NAVY
53		Resolution of Comments	30 days	Tue 10/31/06	Wed 11/29/06	0%	52	A/E,NAVY
54		Draft FS Report	30 days	Thu 11/30/06	Fri 12/29/06	0%	53	A/E,NAVY
55		DRAFT FS REPORT	0 days	Fri 12/29/06	Fri 12/29/06	0%	54	A/E,NAVY
56		Regulator Review	31 days	Sat 12/30/06	Mon 1/29/07	0%	55	USEPA,CTDEP
57		Resolution of Comments	30 days	Tue 1/30/07	Wed 2/28/07	0%	56	A/E,NAVY
58		Draft Final FS Report	30 days	Thu 3/1/07	Fri 3/30/07	0%	57	A/E,NAVY
59		DRAFT FINAL FS REPORT	0 days	Fri 3/30/07	Fri 3/30/07	0%	58	A/E,NAVY
60		Regulator Concurrence	31 days	Sat 3/31/07	Mon 4/30/07	0%	59	USEPA,CTDEP



Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE
NSB-NLON

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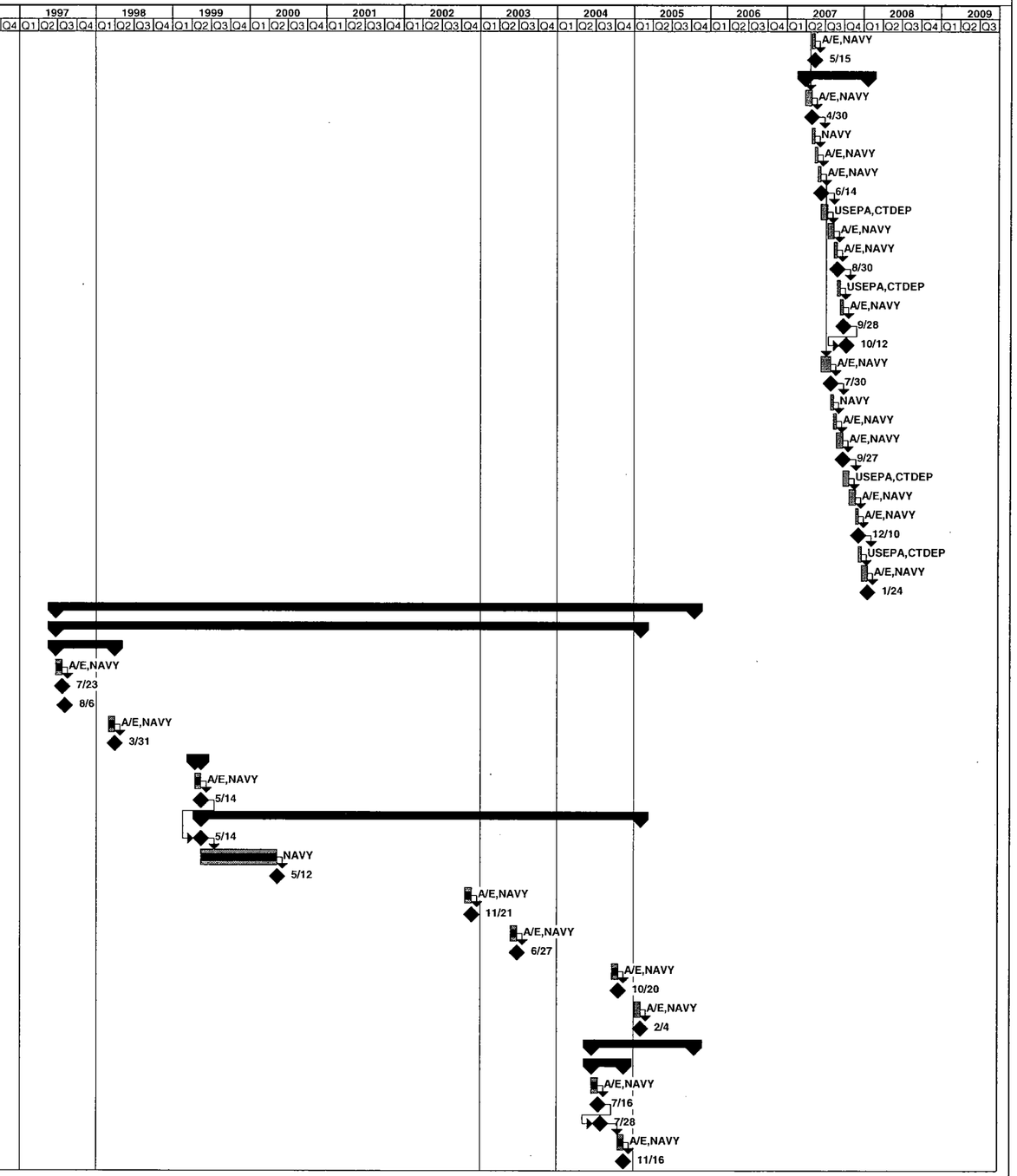
ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
61		Final FS Report	15 days	Tue 5/1/07	Tue 5/15/07	0%	60	A/E,NAVY
62		FINAL FS REPORT	0 days	Tue 5/15/07	Tue 5/15/07	0%	61	A/E,NAVY
63		**PROPOSED PLAN/ROD**	**300 days**	**Sat 3/31/07**	**Thu 1/24/08**	**0%**		
64		Rough Draft Proposed Plan	31 days	Sat 3/31/07	Mon 4/30/07	0%	58	A/E,NAVY
65		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 4/30/07	Mon 4/30/07	0%	64	A/E,NAVY
66		Navy Review	15 days	Tue 5/1/07	Tue 5/15/07	0%	65	NAVY
67		Resolution of Comments	15 days	Wed 5/16/07	Wed 5/30/07	0%	66	A/E,NAVY
68		Draft Proposed Plan	15 days	Thu 5/31/07	Thu 6/14/07	0%	67	A/E,NAVY
69		DRAFT PROPOSED PLAN	0 days	Thu 6/14/07	Thu 6/14/07	0%	68	A/E,NAVY
70		Regulator Review	32 days	Fri 6/15/07	Mon 7/16/07	0%	69	USEPA,CTDEP
71		Resolution of Comments	30 days	Tue 7/17/07	Wed 8/15/07	0%	70	A/E,NAVY
72		Draft Final Proposed Plan	15 days	Thu 8/16/07	Thu 8/30/07	0%	71	A/E,NAVY
73		DRAFT FINAL PROPOSED PLAN	0 days	Thu 8/30/07	Thu 8/30/07	0%	72	A/E,NAVY
74		Regulator Concurrence	15 days	Fri 8/31/07	Fri 9/14/07	0%	73	USEPA,CTDEP
75		Final Proposed Plan	14 days	Sat 9/15/07	Fri 9/28/07	0%	74	A/E,NAVY
76		FINAL PROPOSED PLAN	0 days	Fri 9/28/07	Fri 9/28/07	0%	75	A/E,NAVY
77		Public Meeting	0 days	Fri 10/12/07	Fri 10/12/07	0%	76FS+14 days	PUBLIC
78		Rough Draft ROD	46 days	Fri 6/15/07	Mon 7/30/07	0%	68	A/E,NAVY
79		ROUGH DRAFT ROD	0 days	Mon 7/30/07	Mon 7/30/07	0%	78	A/E,NAVY
80		Navy Review	14 days	Tue 7/31/07	Mon 8/13/07	0%	79	NAVY
81		Resolution of Comments	14 days	Tue 8/14/07	Mon 8/27/07	0%	80	A/E,NAVY
82		Draft ROD	31 days	Tue 8/28/07	Thu 9/27/07	0%	81	A/E,NAVY
83		DRAFT ROD	0 days	Thu 9/27/07	Thu 9/27/07	0%	82	A/E,NAVY
84		Regulator Review	29 days	Fri 9/28/07	Fri 10/26/07	0%	83	USEPA,CTDEP
85		Resolution of Comments	31 days	Sat 10/27/07	Mon 11/26/07	0%	84	A/E,NAVY
86		Draft Final ROD	14 days	Tue 11/27/07	Mon 12/10/07	0%	85	A/E,NAVY
87		DRAFT FINAL ROD	0 days	Mon 12/10/07	Mon 12/10/07	0%	86	A/E,NAVY
88		Regulator Concurrence	14 days	Tue 12/11/07	Mon 12/24/07	0%	87	USEPA,CTDEP
89		Final ROD	31 days	Tue 12/25/07	Thu 1/24/08	0%	88	A/E,NAVY
90		FINAL ROD	0 days	Thu 1/24/08	Thu 1/24/08	0%	89	A/E,NAVY
91		**SITE 3 - AREA A DOWNSTREAM AND OBDA**	**3042 days**	**Tue 6/24/97**	**Fri 10/21/05**	**64%**		
92		**SOIL AND SEDIMENT (OU3)**	**2783 days**	**Tue 6/24/97**	**Fri 2/4/05**	**95%**		
93	✓	**PROPOSED PLAN/ROD**	**281 days**	**Tue 6/24/97**	**Tue 3/31/98**	**100%**		
94	✓	Final Proposed Plan	30 days	Tue 6/24/97	Wed 7/23/97	100%		A/E,NAVY
95	✓	FINAL PROPOSED PLAN	0 days	Wed 7/23/97	Wed 7/23/97	100%	94	A/E,NAVY
96	✓	Public Meeting	0 days	Wed 8/6/97	Wed 8/6/97	100%		PUBLIC
97	✓	Final ROD	30 days	Mon 3/2/98	Tue 3/31/98	100%		A/E,NAVY
98	✓	FINAL ROD	0 days	Tue 3/31/98	Tue 3/31/98	100%	97	A/E,NAVY
99	✓	**RD**	**29 days**	**Fri 4/16/99**	**Fri 5/14/99**	**100%**		
100	✓	Final RD Work Plan	29 days	Fri 4/16/99	Fri 5/14/99	100%		A/E,NAVY
101	✓	FINAL RD WORK PLAN	0 days	Fri 5/14/99	Fri 5/14/99	100%	100	A/E,NAVY
102		**RA**	**2093 days**	**Fri 5/14/99**	**Fri 2/4/05**	**94%**		
103	✓	Start of Construction	0 days	Fri 5/14/99	Fri 5/14/99	100%	101	NAVY
104	✓	Construction	364 days	Sat 5/15/99	Fri 5/12/00	100%	103	NAVY
105	✓	End of Construction	0 days	Fri 5/12/00	Fri 5/12/00	100%	104	NAVY
106	✓	Year 1 Site Restoration Monitoring	32 days	Mon 10/21/02	Thu 11/21/02	100%		A/E,NAVY
107	✓	YEAR 1 SITE RESTORATION MONITORING	0 days	Thu 11/21/02	Thu 11/21/02	100%	106	A/E,NAVY
108	✓	Year 2 Site Restoration Monitoring	31 days	Wed 5/28/03	Fri 6/27/03	100%		A/E,NAVY
109	✓	YEAR 2 SITE RESTORATION MONITORING	0 days	Fri 6/27/03	Fri 6/27/03	100%	108	A/E,NAVY
110	✓	Year 3 Site Restoration Monitoring	30 days	Tue 9/21/04	Wed 10/20/04	100%		A/E,NAVY
111	✓	YEAR 3 SITE RESTORATION MONITORING	0 days	Wed 10/20/04	Wed 10/20/04	100%	110	A/E,NAVY
112		Year 4 Site Restoration Monitoring	29 days	Fri 1/7/05	Fri 2/4/05	0%		A/E,NAVY
113		YEAR 4 RESTORATION MONITORING	0 days	Fri 2/4/05	Fri 2/4/05	0%	112	A/E,NAVY
114		**SITE 3 NSA SOIL**	**493 days**	**Wed 6/16/04**	**Fri 10/21/05**	**16%**		
115	✓	**PROPOSED PLAN/ROD**	**154 days**	**Wed 6/16/04**	**Tue 11/16/04**	**100%**		
116	✓	Final Proposed Plan	31 days	Wed 6/16/04	Fri 7/16/04	100%		A/E,NAVY
117	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	116	A/E,NAVY
118	✓	Public Meeting	0 days	Wed 7/28/04	Wed 7/28/04	100%	117FS+12 days	PUBLIC
119	✓	Final ROD	30 days	Mon 10/18/04	Tue 11/16/04	100%	118FS+45 days	A/E,NAVY
120	✓	FINAL ROD	0 days	Tue 11/16/04	Tue 11/16/04	100%	119	A/E,NAVY



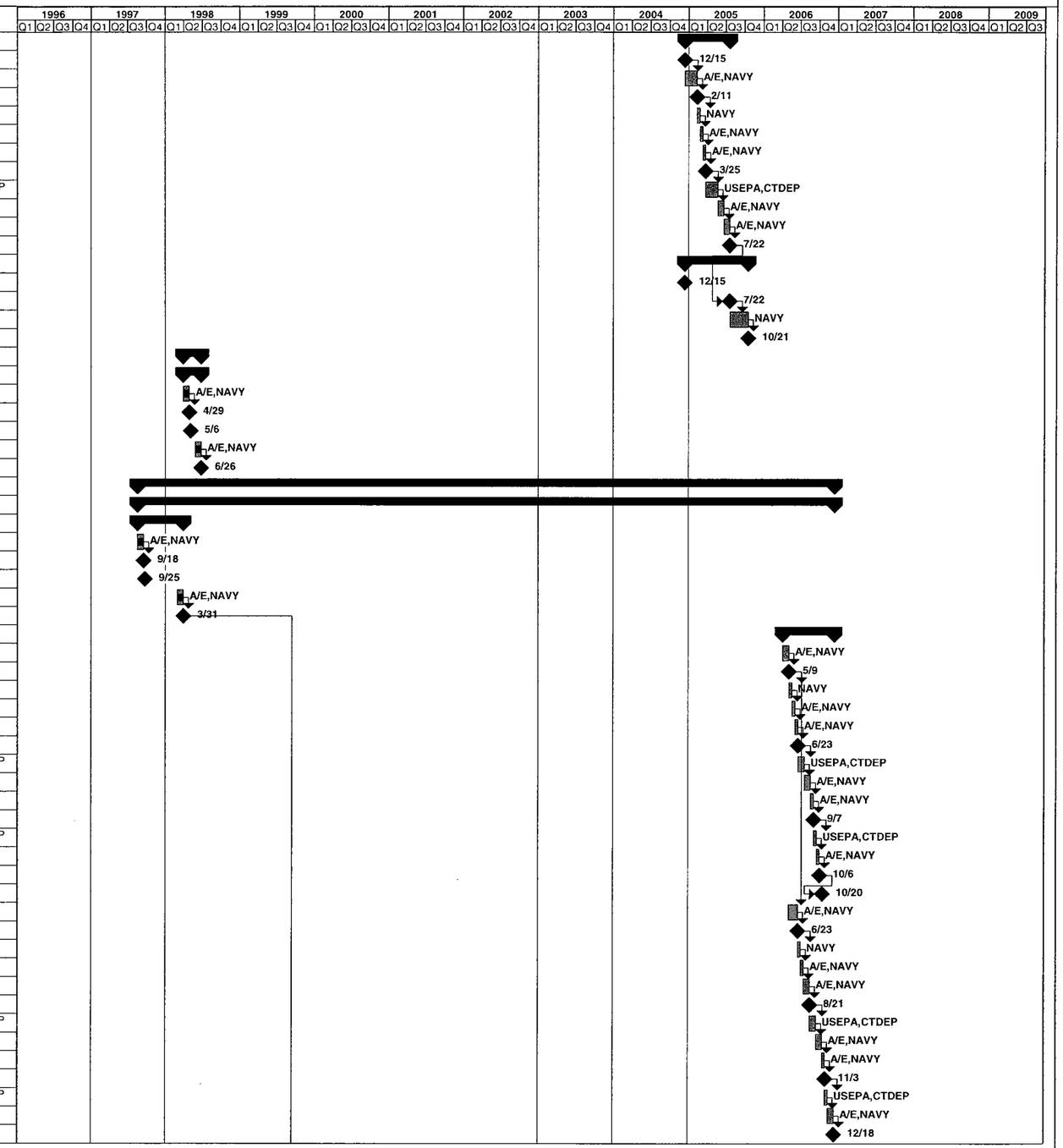
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
121		**RD**	**220 days**	**Wed 12/15/04**	**Fri 7/22/05**	**0%**		
122		Award RD	0 days	Wed 12/15/04	Wed 12/15/04	0%		A/E,NAVY
123		Rough Draft RD Work Plan	59 days	Wed 12/15/04	Fri 2/11/05	0%	122	A/E,NAVY
124		ROUGH DRAFT RD WORK PLAN	0 days	Fri 2/11/05	Fri 2/11/05	0%	123	NAVY
125		Navy Review	14 days	Sat 2/12/05	Fri 2/25/05	0%	124	NAVY
126		Resolution of Comments	14 days	Sat 2/26/05	Fri 3/11/05	0%	125	A/E,NAVY
127		Draft RD Work Plan	14 days	Sat 3/12/05	Fri 3/25/05	0%	126	A/E,NAVY
128		DRAFT RD WORK PLAN	0 days	Fri 3/25/05	Fri 3/25/05	0%	127	A/E,NAVY
129		Regulator Review	60 days	Sat 3/26/05	Tue 5/24/05	0%	128	USEPA,CTDEP
130		Resolution of Comments	30 days	Wed 5/25/05	Thu 6/23/05	0%	129	A/E,NAVY
131		Final RD Work Plan	29 days	Fri 6/24/05	Fri 7/22/05	0%	130	A/E,NAVY
132		FINAL RD WORK PLAN	0 days	Fri 7/22/05	Fri 7/22/05	0%	131	A/E,NAVY
133		**RA**	**311 days**	**Wed 12/15/04**	**Fri 10/21/05**	**0%**		
134		Award Construction	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
135		Start of Construction	0 days	Fri 7/22/05	Fri 7/22/05	0%	132	NAVY
136		Construction	89 days	Mon 7/25/05	Fri 10/21/05	0%	135FS+2 days	NAVY
137		End of Construction	0 days	Fri 10/21/05	Fri 10/21/05	0%	136	NAVY
138	✓	**SITE 4 - RUBBLE FILL AREA AT BUNKER A-86 (Soil - OU10)**	**88 days**	**Tue 3/31/98**	**Fri 6/26/98**	**100%**		
139	✓	**PROPOSED PLAN/ROD**	**88 days**	**Tue 3/31/98**	**Fri 6/26/98**	**100%**		
140	✓	Final Proposed Plan	30 days	Tue 3/31/98	Wed 4/29/98	100%		A/E,NAVY
141	✓	FINAL PROPOSED PLAN	0 days	Wed 4/29/98	Wed 4/29/98	100%	140	A/E,NAVY
142	✓	Public Meeting	0 days	Wed 5/6/98	Wed 5/6/98	100%		PUBLIC
143	✓	Final ROD	30 days	Thu 5/28/98	Fri 6/26/98	100%		A/E,NAVY
144	✓	FINAL ROD	0 days	Fri 6/26/98	Fri 6/26/98	100%	143	A/E,NAVY
145		**SITE 6 - DRMO (OU2)**	**3408 days**	**Wed 8/20/97**	**Mon 12/18/06**	**33%**		
146		**PROPOSED PLAN/ROD**	**3408 days**	**Wed 8/20/97**	**Mon 12/18/06**	**13%**		
147	✓	**Interim Proposed Plan/ROD (Soil and Groundwater)**	**224 days**	**Wed 8/20/97**	**Tue 3/31/98**	**100%**		
148	✓	Final Proposed Plan	30 days	Wed 8/20/97	Thu 9/18/97	100%		A/E,NAVY
149	✓	FINAL PROPOSED PLAN	0 days	Thu 9/18/97	Thu 9/18/97	100%	148	A/E,NAVY
150	✓	Public Meeting	0 days	Thu 9/25/97	Thu 9/25/97	100%		PUBLIC
151	✓	Final Interim ROD	30 days	Mon 3/2/98	Tue 3/31/98	100%		A/E,NAVY
152	✓	FINAL INTERIM ROD	0 days	Tue 3/31/98	Tue 3/31/98	100%	151	A/E,NAVY
153		**Final Proposed Plan/ROD (Soil and Groundwater)**	**253 days**	**Mon 4/10/06**	**Mon 12/18/06**	**0%**		
154		Rough Draft Proposed Plan	30 days	Mon 4/10/06	Tue 5/9/06	0%		A/E,NAVY
155		ROUGH DRAFT PROPOSED PLAN	0 days	Tue 5/9/06	Tue 5/9/06	0%	154	A/E,NAVY
156		Navy Review	15 days	Wed 5/10/06	Wed 5/24/06	0%	155	NAVY
157		Resolution of Comments	15 days	Thu 5/25/06	Thu 6/8/06	0%	156	A/E,NAVY
158		Draft Proposed Plan	15 days	Fri 6/9/06	Fri 6/23/06	0%	157	A/E,NAVY
159		DRAFT PROPOSED PLAN	0 days	Fri 6/23/06	Fri 6/23/06	0%	158	A/E,NAVY
160		Regulator Review	31 days	Sat 6/24/06	Mon 7/24/06	0%	159	USEPA,CTDEP
161		Resolution of Comments	30 days	Tue 7/25/06	Wed 8/23/06	0%	160	A/E,NAVY
162		Draft Final Proposed Plan	15 days	Thu 8/24/06	Thu 9/7/06	0%	161	A/E,NAVY
163		DRAFT FINAL PROPOSED PLAN	0 days	Thu 9/7/06	Thu 9/7/06	0%	162	A/E,NAVY
164		Regulator Concurrence	15 days	Fri 9/8/06	Fri 9/22/06	0%	163	USEPA,CTDEP
165		Final Proposed Plan	14 days	Sat 9/23/06	Fri 10/6/06	0%	164	A/E,NAVY
166		FINAL PROPOSED PLAN	0 days	Fri 10/6/06	Fri 10/6/06	0%	165	A/E,NAVY
167		Public Meeting	0 days	Fri 10/20/06	Fri 10/20/06	0%	166FS+14 days	PUBLIC
168		Rough Draft ROD	45 days	Wed 5/10/06	Fri 6/23/06	0%	155	A/E,NAVY
169		ROUGH DRAFT ROD	0 days	Fri 6/23/06	Fri 6/23/06	0%	168	A/E,NAVY
170		Navy Review	14 days	Sat 6/24/06	Fri 7/7/06	0%	169	NAVY
171		Resolution of Comments	14 days	Sat 7/8/06	Fri 7/21/06	0%	170	A/E,NAVY
172		Draft ROD	31 days	Sat 7/22/06	Mon 8/21/06	0%	171	A/E,NAVY
173		DRAFT ROD	0 days	Mon 8/21/06	Mon 8/21/06	0%	172	A/E,NAVY
174		Regulator Review	30 days	Tue 8/22/06	Wed 9/20/06	0%	173	USEPA,CTDEP
175		Resolution of Comments	30 days	Thu 9/21/06	Fri 10/20/06	0%	174	A/E,NAVY
176		Draft Final ROD	14 days	Sat 10/21/06	Fri 11/3/06	0%	175	A/E,NAVY
177		DRAFT FINAL ROD	0 days	Fri 11/3/06	Fri 11/3/06	0%	176	A/E,NAVY
178		Regulator Concurrence	14 days	Sat 11/4/06	Fri 11/17/06	0%	177	USEPA,CTDEP
179		Final ROD	31 days	Sat 11/18/06	Mon 12/18/06	0%	178	A/E,NAVY
180		FINAL ROD	0 days	Mon 12/18/06	Mon 12/18/06	0%	179	A/E,NAVY



Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
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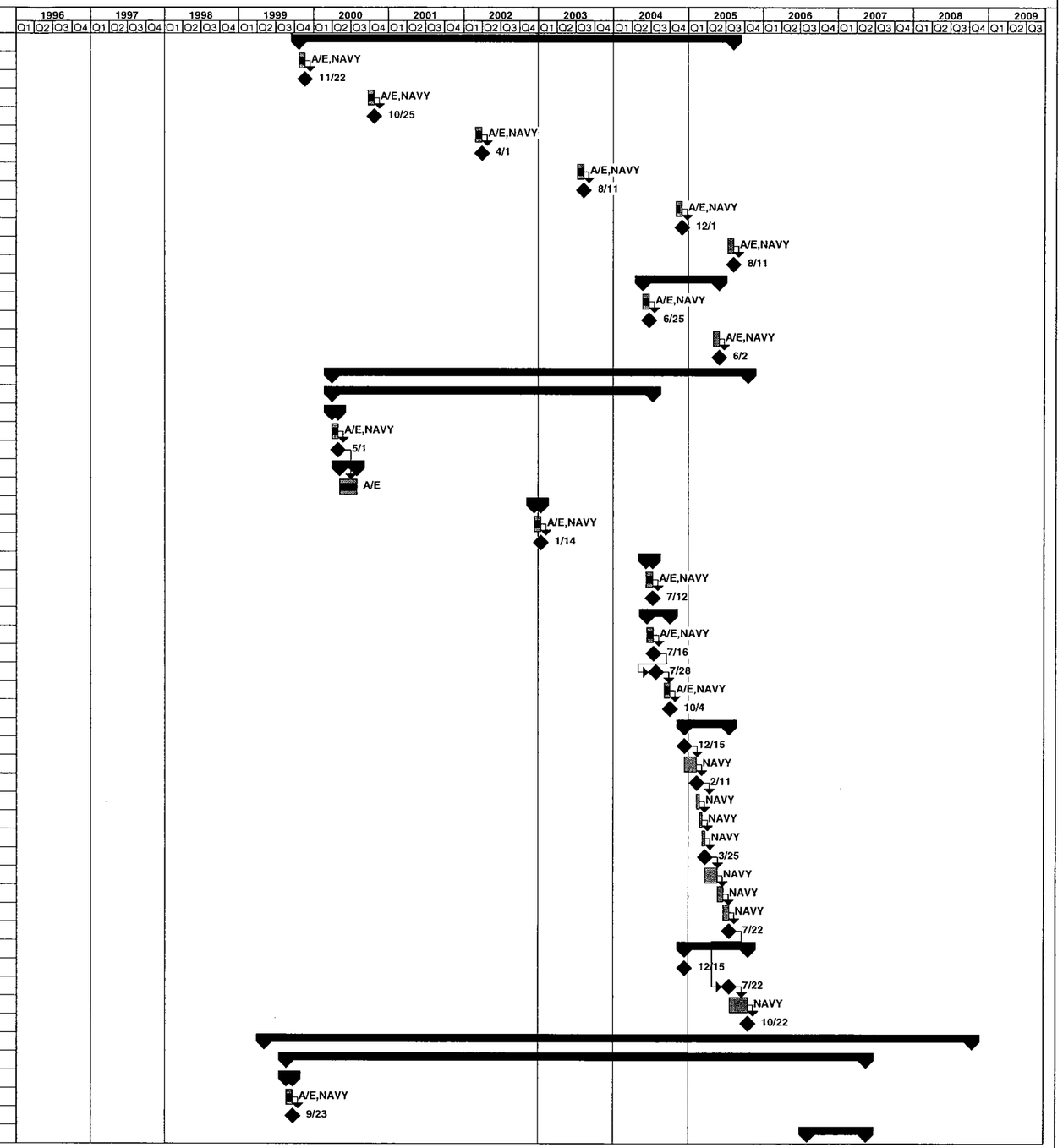
ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
181		**LONG-TERM GROUNDWATER MONITORING**	**2119 days**	**Sun 10/24/99**	**Thu 8/11/05**	**77%**	**152**	
182	✓	Year 1 Annual Report	30 days	Sun 10/24/99	Mon 11/22/99	100%		A/E,NAVY
183	✓	YEAR 1 ANNUAL REPORT	0 days	Mon 11/22/99	Mon 11/22/99	100%	182	A/E,NAVY
184	✓	Year 2 Annual Report	31 days	Mon 9/25/00	Wed 10/25/00	100%		A/E,NAVY
185	✓	YEAR 2 ANNUAL REPORT	0 days	Wed 10/25/00	Wed 10/25/00	100%	184	A/E,NAVY
186	✓	Year 3 Annual Report	32 days	Fri 3/1/02	Mon 4/1/02	100%		A/E,NAVY
187	✓	YEAR 3 ANNUAL REPORT	0 days	Mon 4/1/02	Mon 4/1/02	100%	186	A/E,NAVY
188	✓	Year 4 Annual Report	32 days	Fri 7/11/03	Mon 8/11/03	100%		A/E,NAVY
189	✓	YEAR 4 ANNUAL REPORT	0 days	Mon 8/11/03	Mon 8/11/03	100%	188	A/E,NAVY
190		Year 5 Annual Report	30 days	Tue 11/2/04	Wed 12/1/04	60%		A/E,NAVY
191		YEAR 5 ANNUAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	190	A/E,NAVY
192		Year 6 Annual Report	30 days	Wed 7/13/05	Thu 8/11/05	0%		A/E,NAVY
193		YEAR 6 ANNUAL REPORT	0 days	Thu 8/11/05	Thu 8/11/05	0%	192	A/E,NAVY
194		**OPERATION AND MAINTENANCE**	**374 days**	**Tue 5/25/04**	**Thu 6/2/05**	**52%**		
195	✓	Year 1 O&M Inspection Report	32 days	Tue 5/25/04	Fri 6/25/04	100%		A/E,NAVY
196	✓	YEAR 1 O&M INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	195	A/E,NAVY
197		Year 2 O&M Inspection Report	30 days	Wed 5/4/05	Thu 6/2/05	0%		A/E,NAVY
198		YEAR 2 O&M INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	197	A/E,NAVY
199		**SITE 7 - TORPEDO SHOPS (Soil - OU8)**	**2031 days**	**Sat 4/1/00**	**Sat 10/22/05**	**43%**		
200	✓	**RI/FS**	**1564 days**	**Sat 4/1/00**	**Mon 7/12/04**	**100%**		
201	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
202	✓	Final Work Plan	31 days	Sat 4/1/00	Mon 5/1/00	100%		A/E,NAVY
203	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	202	A/E,NAVY
204	✓	**Field Work**	**84 days**	**Tue 5/9/00**	**Mon 7/31/00**	**100%**		
205	✓	Field Work	84 days	Tue 5/9/00	Mon 7/31/00	100%	203FS+7 days	A/E
206	✓	**RI Report**	**32 days**	**Sat 12/14/02**	**Tue 1/14/03**	**100%**		
207	✓	Final RI Report	32 days	Sat 12/14/02	Tue 1/14/03	100%		A/E,NAVY
208	✓	FINAL RI REPORT	0 days	Tue 1/14/03	Tue 1/14/03	100%	207	A/E,NAVY
209	✓	**RI Update/Feasibility Study**	**32 days**	**Fri 6/11/04**	**Mon 7/12/04**	**100%**		
210	✓	Final RI Update/FS Report	32 days	Fri 6/11/04	Mon 7/12/04	100%		A/E,NAVY
211	✓	FINAL RI UPDATE/FS REPORT	0 days	Mon 7/12/04	Mon 7/12/04	100%	210	A/E,NAVY
212	✓	**PROPOSED PLAN/ROD**	**111 days**	**Wed 6/16/04**	**Mon 10/4/04**	**100%**		
213	✓	Final Proposed Plan	31 days	Wed 6/16/04	Fri 7/16/04	100%		A/E,NAVY
214	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	213	A/E,NAVY
215	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	214FS+12 days	PUBLIC
216	✓	Final ROD	27 days	Wed 9/8/04	Mon 10/4/04	100%	215FS+37 days	A/E,NAVY
217	✓	FINAL ROD	0 days	Mon 10/4/04	Mon 10/4/04	100%	216	A/E,NAVY
218		**RD**	**220 days**	**Wed 12/15/04**	**Fri 7/22/05**	**0%**		
219		Award RD	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
220		Rough Draft Work Plan	59 days	Wed 12/15/04	Fri 2/11/05	0%	219	NAVY
221		ROUGH DRAFT WORK PLAN	0 days	Fri 2/11/05	Fri 2/11/05	0%	220	NAVY
222		Navy Review	14 days	Sat 2/12/05	Fri 2/25/05	0%	221	NAVY
223		Resolution of Comments	14 days	Sat 2/26/05	Fri 3/11/05	0%	222	NAVY
224		Draft RD Work Plan	14 days	Sat 3/12/05	Fri 3/25/05	0%	223	NAVY
225		DRAFT RD WORK PLAN	0 days	Fri 3/25/05	Fri 3/25/05	0%	224	NAVY
226		Regulator Review	60 days	Sat 3/26/05	Tue 5/24/05	0%	225	NAVY
227		Resolution of Comments	30 days	Wed 5/25/05	Thu 6/23/05	0%	226	NAVY
228		Final RD Work Plan	29 days	Fri 6/24/05	Fri 7/22/05	0%	227	NAVY
229		FINAL RD WORK PLAN	0 days	Fri 7/22/05	Fri 7/22/05	0%	228	NAVY
230		**RA**	**312 days**	**Wed 12/15/04**	**Sat 10/22/05**	**0%**		
231		Award Construction	0 days	Wed 12/15/04	Wed 12/15/04	0%		NAVY
232		Start of Construction	0 days	Fri 7/22/05	Fri 7/22/05	0%	229	NAVY
233		Construction	90 days	Mon 7/25/05	Sat 10/22/05	0%	232FS+2 days	NAVY
234		End of Construction	0 days	Sat 10/22/05	Sat 10/22/05	0%	233	NAVY
235		**SITE 8 - GOSS COVE LANDFILL (OU5)**	**3456 days**	**Sat 5/8/99**	**Wed 10/22/08**	**37%**		
236		**FEASIBILITY STUDY**	**2830 days**	**Mon 8/23/99**	**Tue 5/22/07**	**10%**		
237	✓	**Soil, Sediment, and Surface Water**	**32 days**	**Mon 8/23/99**	**Thu 9/23/99**	**100%**		
238	✓	Final FS Report	32 days	Mon 8/23/99	Thu 9/23/99	100%		A/E,NAVY
239	✓	FINAL FS REPORT	0 days	Thu 9/23/99	Thu 9/23/99	100%	238	A/E,NAVY
240		**Groundwater**	**287 days**	**Wed 8/9/06**	**Tue 5/22/07**	**0%**		

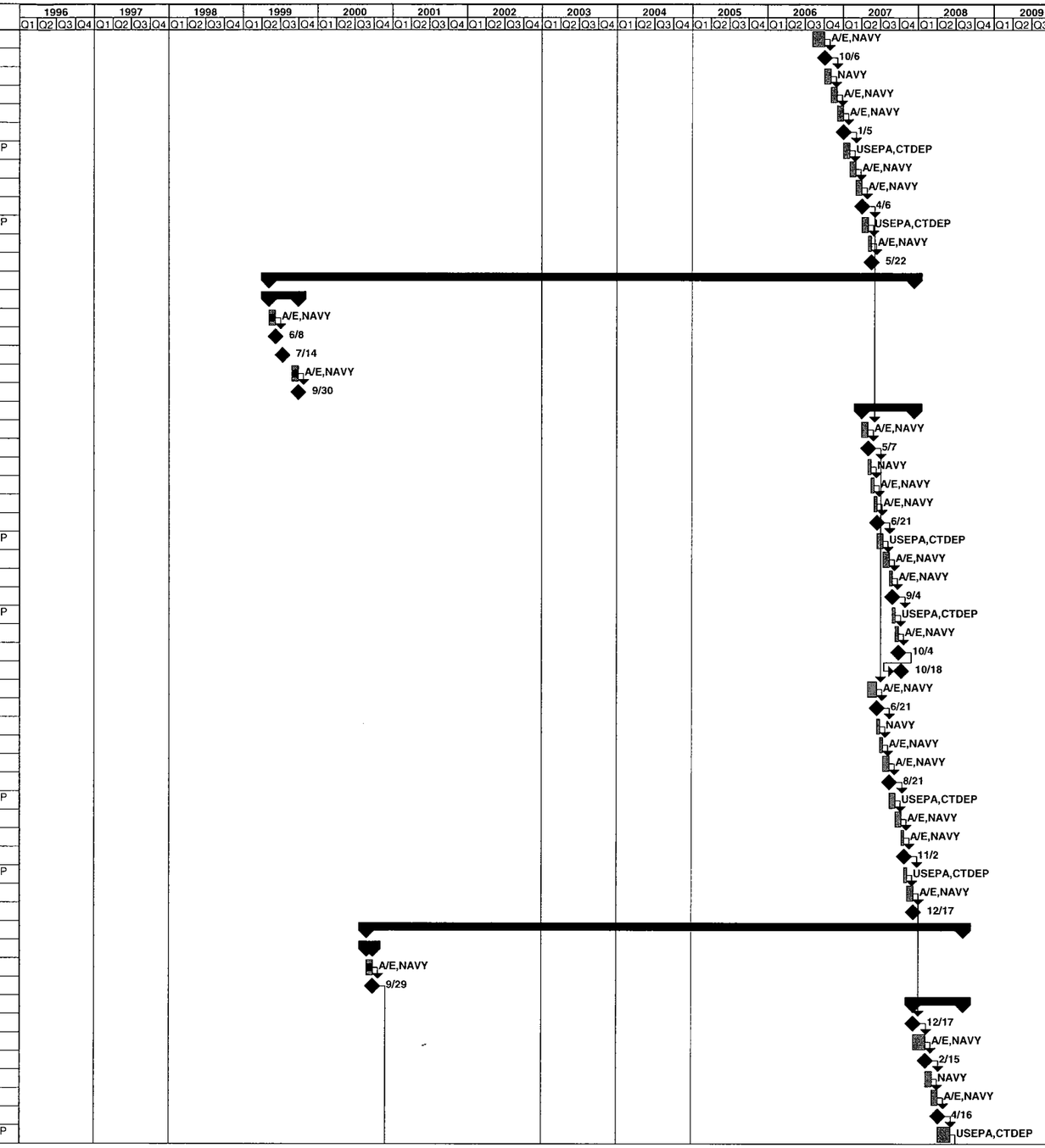


Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
241		Rough Draft FS Report	59 days	Wed 8/9/06	Fri 10/6/06	0%		A/E,NAVY
242		ROUGH DRAFT FS REPORT	0 days	Fri 10/6/06	Fri 10/6/06	0%	241	A/E,NAVY
243		Navy Review	31 days	Sat 10/7/06	Mon 11/6/06	0%	242	NAVY
244		Resolution of Comments	30 days	Tue 11/7/06	Wed 12/6/06	0%	243	A/E,NAVY
245		Draft FS Report	30 days	Thu 12/7/06	Fri 1/5/07	0%	244	A/E,NAVY
246		DRAFT FS REPORT	0 days	Fri 1/5/07	Fri 1/5/07	0%	245	A/E,NAVY
247		Regulator Review	31 days	Sat 1/6/07	Mon 2/5/07	0%	246	USEPA,CTDEP
248		Resolution of Comments	30 days	Tue 2/6/07	Wed 3/7/07	0%	247	A/E,NAVY
249		Draft Final FS Report	30 days	Thu 3/8/07	Fri 4/6/07	0%	248	A/E,NAVY
250		DRAFT FINAL FS REPORT	0 days	Fri 4/6/07	Fri 4/6/07	0%	249	A/E,NAVY
251		Regulator Concurrence	31 days	Sat 4/7/07	Mon 5/7/07	0%	250	USEPA,CTDEP
252		Final FS Report	15 days	Tue 5/8/07	Tue 5/22/07	0%	251	A/E,NAVY
253		FINAL FS REPORT	0 days	Tue 5/22/07	Tue 5/22/07	0%	252	A/E,NAVY
254		**PROPOSED PLAN/ROD**	**3146 days**	**Sat 5/8/99**	**Mon 12/17/07**	**14%**		
255	✓	**Soil, Sediment, and Surface Water**	**146 days**	**Sat 5/8/99**	**Thu 9/30/99**	**100%**		
256	✓	Final Proposed Plan	32 days	Sat 5/8/99	Tue 6/8/99	100%		A/E,NAVY
257	✓	FINAL PROPOSED PLAN	0 days	Tue 6/8/99	Tue 6/8/99	100%	256	A/E,NAVY
258	✓	Public Meeting	0 days	Wed 7/14/99	Wed 7/14/99	100%		PUBLIC
259	✓	Final ROD	32 days	Mon 8/30/99	Thu 9/30/99	100%		A/E,NAVY
260	✓	FINAL ROD	0 days	Thu 9/30/99	Thu 9/30/99	100%	259	A/E,NAVY
261		**Groundwater**	**255 days**	**Sat 4/7/07**	**Mon 12/17/07**	**0%**		
262		Rough Draft Proposed Plan	31 days	Sat 4/7/07	Mon 5/7/07	0%	250	A/E,NAVY
263		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 5/7/07	Mon 5/7/07	0%	262	A/E,NAVY
264		Navy Review	15 days	Tue 5/8/07	Tue 5/22/07	0%	263	NAVY
265		Resolution of Comments	15 days	Wed 5/23/07	Wed 6/6/07	0%	264	A/E,NAVY
266		Draft Proposed Plan	15 days	Thu 6/7/07	Thu 6/21/07	0%	265	A/E,NAVY
267		DRAFT PROPOSED PLAN	0 days	Thu 6/21/07	Thu 6/21/07	0%	266	A/E,NAVY
268		Regulator Review	29 days	Fri 6/22/07	Fri 7/20/07	0%	267	USEPA,CTDEP
269		Resolution of Comments	31 days	Sat 7/21/07	Mon 8/20/07	0%	268	A/E,NAVY
270		Draft Final Proposed Plan	15 days	Tue 8/21/07	Tue 9/4/07	0%	269	A/E,NAVY
271		DRAFT FINAL PROPOSED PLAN	0 days	Tue 9/4/07	Tue 9/4/07	0%	270	A/E,NAVY
272		Regulator Concurrence	15 days	Wed 9/5/07	Wed 9/19/07	0%	271	USEPA,CTDEP
273		Final Proposed Plan	15 days	Thu 9/20/07	Thu 10/4/07	0%	272	A/E,NAVY
274		FINAL PROPOSED PLAN	0 days	Thu 10/4/07	Thu 10/4/07	0%	273	A/E,NAVY
275		Public Meeting	0 days	Thu 10/18/07	Thu 10/18/07	0%	274FS+14 days	PUBLIC
276		Rough Draft ROD	45 days	Tue 5/8/07	Thu 6/21/07	0%	263	A/E,NAVY
277		ROUGH DRAFT ROD	0 days	Thu 6/21/07	Thu 6/21/07	0%	276	A/E,NAVY
278		Navy Review	15 days	Fri 6/22/07	Fri 7/6/07	0%	277	NAVY
279		Resolution of Comments	14 days	Sat 7/7/07	Fri 7/20/07	0%	278	A/E,NAVY
280		Draft ROD	32 days	Sat 7/21/07	Tue 8/21/07	0%	279	A/E,NAVY
281		DRAFT ROD	0 days	Tue 8/21/07	Tue 8/21/07	0%	280	A/E,NAVY
282		Regulator Review	30 days	Wed 8/22/07	Thu 9/20/07	0%	281	USEPA,CTDEP
283		Resolution of Comments	29 days	Fri 9/21/07	Fri 10/19/07	0%	282	A/E,NAVY
284		Draft Final ROD	14 days	Sat 10/20/07	Fri 11/2/07	0%	283	A/E,NAVY
285		DRAFT FINAL ROD	0 days	Fri 11/2/07	Fri 11/2/07	0%	284	A/E,NAVY
286		Regulator Concurrence	14 days	Sat 11/3/07	Fri 11/16/07	0%	285	USEPA,CTDEP
287		Final ROD	31 days	Sat 11/17/07	Mon 12/17/07	0%	286	A/E,NAVY
288		FINAL ROD	0 days	Mon 12/17/07	Mon 12/17/07	0%	287	A/E,NAVY
289		**RD**	**2908 days**	**Wed 8/30/00**	**Fri 8/15/08**	**11%**		
290	✓	**Soil**	**31 days**	**Wed 8/30/00**	**Fri 9/29/00**	**100%**		
291	✓	Final RD	31 days	Wed 8/30/00	Fri 9/29/00	100%		A/E,NAVY
292	✓	Final RD	0 days	Fri 9/29/00	Fri 9/29/00	100%	291	A/E,NAVY
293		**Groundwater**	**242 days**	**Mon 12/17/07**	**Fri 8/15/08**	**0%**		
294		Award RD	0 days	Mon 12/17/07	Mon 12/17/07	0%	287	A/E,NAVY
295		Rough Draft Work Plan	60 days	Tue 12/18/07	Fri 2/15/08	0%	294	A/E,NAVY
296		ROUGH DRAFT WORK PLAN	0 days	Fri 2/15/08	Fri 2/15/08	0%	295	A/E,NAVY
297		Navy Review	31 days	Sat 2/16/08	Mon 3/17/08	0%	296	NAVY
298		Draft RD Work Plan	30 days	Tue 3/18/08	Wed 4/16/08	0%	297	A/E,NAVY
299		DRAFT RD WORK PLAN	0 days	Wed 4/16/08	Wed 4/16/08	0%	298	A/E,NAVY
300		Regulator Review	61 days	Thu 4/17/08	Mon 6/16/08	0%	299	USEPA,CTDEP



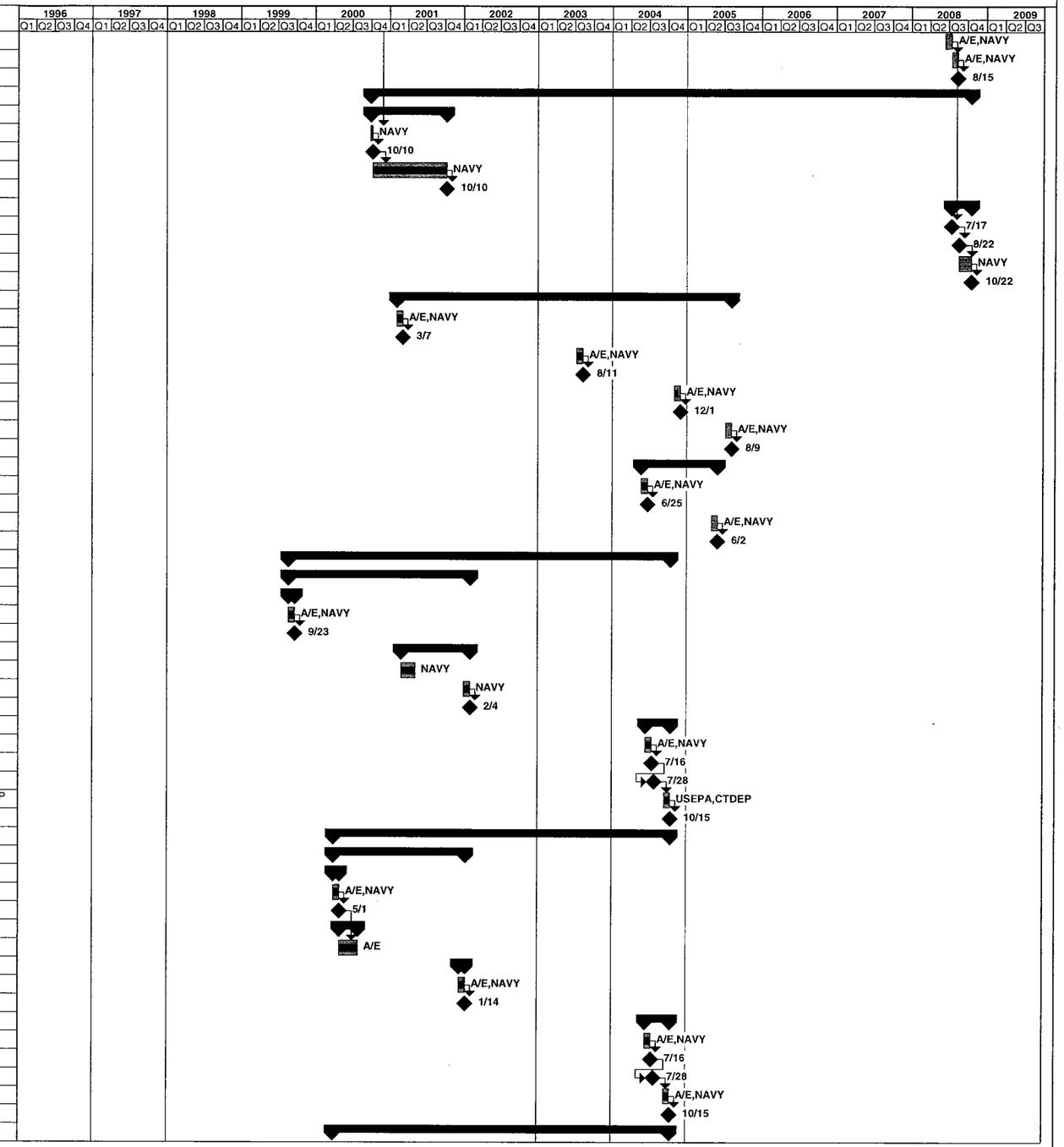
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
301		Resolution of Comments	31 days	Tue 6/17/08	Thu 7/17/08	0%	300	A/E,NAVY
302		Final RD Work Plan	29 days	Fri 7/18/08	Fri 8/15/08	0%	301	A/E,NAVY
303		FINAL RD WORK PLAN	0 days	Fri 8/15/08	Fri 8/15/08	0%	302	A/E,NAVY
304		**RA**	**2944 days**	**Sun 10/1/00**	**Wed 10/22/08**	**86%**		
305	✓	**Soil**	**375 days**	**Sun 10/1/00**	**Wed 10/10/01**	**100%**		
306	✓	Award Construction	10 days	Sun 10/1/00	Tue 10/10/00	100%	292	NAVY
307	✓	Start of Construction	0 days	Tue 10/10/00	Tue 10/10/00	100%	306	NAVY
308	✓	Construction	365 days	Wed 10/11/00	Wed 10/10/01	100%	307	NAVY
309	✓	End of Construction	0 days	Wed 10/10/01	Wed 10/10/01	100%	308	NAVY
310		**Groundwater**	**97 days**	**Thu 7/17/08**	**Wed 10/22/08**	**0%**		
311		Award Construction	0 days	Thu 7/17/08	Thu 7/17/08	0%	301	NAVY
312		Start Construction	0 days	Fri 8/22/08	Fri 8/22/08	0%	311FS+36 days	NAVY
313		Construction	61 days	Sat 8/23/08	Wed 10/22/08	0%	312	NAVY
314		Complete Construction	0 days	Wed 10/22/08	Wed 10/22/08	0%	313	NAVY
315		**LONG-TERM GROUNDWATER MONITORING**	**1646 days**	**Tue 2/6/01**	**Tue 8/9/05**	**66%**		
316	✓	Final Groundwater Monitoring Plan	30 days	Tue 2/6/01	Wed 3/7/01	100%		A/E,NAVY
317	✓	FINAL GROUNDWATER MONITORING PLAN	0 days	Wed 3/7/01	Wed 3/7/01	100%	316	A/E,NAVY
318	✓	Year 1 Annual Report	32 days	Fri 7/11/03	Mon 8/11/03	100%		A/E,NAVY
319	✓	YEAR 1 ANNUAL REPORT	0 days	Mon 8/11/03	Mon 8/11/03	100%	318	A/E,NAVY
320		Year 2 Annual Report	30 days	Tue 11/2/04	Wed 12/1/04	60%		A/E,NAVY
321		YEAR 2 ANNUAL REPORT	0 days	Wed 12/1/04	Wed 12/1/04	0%	320	A/E,NAVY
322		Year 3 Annual Report	30 days	Mon 7/11/05	Tue 8/9/05	0%		A/E,NAVY
323		YEAR 3 ANNUAL REPORT	0 days	Tue 8/9/05	Tue 8/9/05	0%	322	A/E,NAVY
324		**O&M**	**375 days**	**Mon 5/24/04**	**Thu 6/2/05**	**52%**		
325	✓	Year 1 Inspection Report	33 days	Mon 5/24/04	Fri 6/25/04	100%		A/E,NAVY
326	✓	YEAR 1 INSPECTION REPORT	0 days	Fri 6/25/04	Fri 6/25/04	100%	325	A/E,NAVY
327		Year 2 Inspection Report	30 days	Wed 5/4/05	Thu 6/2/05	0%		A/E,NAVY
328		YEAR 2 INSPECTION REPORT	0 days	Thu 6/2/05	Thu 6/2/05	0%	327	A/E,NAVY
329	✓	**SITE 14 - OBDANE (Soil - OU8)**	**1881 days**	**Mon 8/23/99**	**Fri 10/15/04**	**100%**		
330	✓	**Non-Time-Critical Removal Action**	**897 days**	**Mon 8/23/99**	**Mon 2/4/02**	**100%**		
331	✓	**Action Memorandum and EE/CA**	**32 days**	**Mon 8/23/99**	**Thu 9/23/99**	**100%**		
332	✓	Final AM and EE/CA	32 days	Mon 8/23/99	Thu 9/23/99	100%		A/E,NAVY
333	✓	FINAL AM and EE/CA	0 days	Thu 9/23/99	Thu 9/23/99	100%	332	A/E,NAVY
334	✓	**Removal Action**	**341 days**	**Thu 3/1/01**	**Mon 2/4/02**	**100%**		
335	✓	Removal Action	70 days	Thu 3/1/01	Wed 5/9/01	100%		NAVY
336	✓	Final Removal Action Report	32 days	Fri 1/4/02	Mon 2/4/02	100%		NAVY
337	✓	FINAL REMOVAL ACTION REPORT	0 days	Mon 2/4/02	Mon 2/4/02	100%	336	NAVY
338	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
339	✓	Final Proposed Plan	31 days	Wed 6/16/04	Fri 7/16/04	100%		A/E,NAVY
340	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	339	A/E,NAVY
341	✓	Public Meeting	0 days	Wed 7/28/04	Wed 7/28/04	100%	340FS+12 days	PUBLIC
342	✓	Final ROD	30 days	Thu 9/16/04	Fri 10/15/04	100%	341FS+49 days	USEPA,CTDEP
343	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	342	A/E,NAVY
344	✓	**SITE 16 - HOSPITAL INCINERATORS (Soil - OU11)**	**1659 days**	**Sat 4/1/00**	**Fri 10/15/04**	**100%**		
345	✓	**REMEDIAL INVESTIGATION**	**654 days**	**Sat 4/1/00**	**Mon 1/14/02**	**100%**		
346	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
347	✓	Final Work Plan	31 days	Sat 4/1/00	Mon 5/1/00	100%		A/E,NAVY
348	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	347	A/E,NAVY
349	✓	**Field Work**	**91 days**	**Tue 5/2/00**	**Mon 7/31/00**	**100%**		
350	✓	Field Work	91 days	Tue 5/2/00	Mon 7/31/00	100%	348	A/E
351	✓	**RI Report**	**32 days**	**Fri 12/14/01**	**Mon 1/14/02**	**100%**		
352	✓	Final RI Report	32 days	Fri 12/14/01	Mon 1/14/02	100%		A/E,NAVY
353	✓	FINAL RI REPORT	0 days	Mon 1/14/02	Mon 1/14/02	100%	352	A/E,NAVY
354	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
355	✓	Final Proposed Plan	31 days	Wed 6/16/04	Fri 7/16/04	100%		A/E,NAVY
356	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	355	A/E,NAVY
357	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	356FS+12 days	PUBLIC
358	✓	Final ROD	30 days	Thu 9/16/04	Fri 10/15/04	100%	357FS+49 days	A/E,NAVY
359	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	358	A/E,NAVY
360	✓	**SITE 18 - SOLVENT STORAGE AREA, BLDG. 33 (Soil - OU11)**	**1659 days**	**Sat 4/1/00**	**Fri 10/15/04**	**100%**		



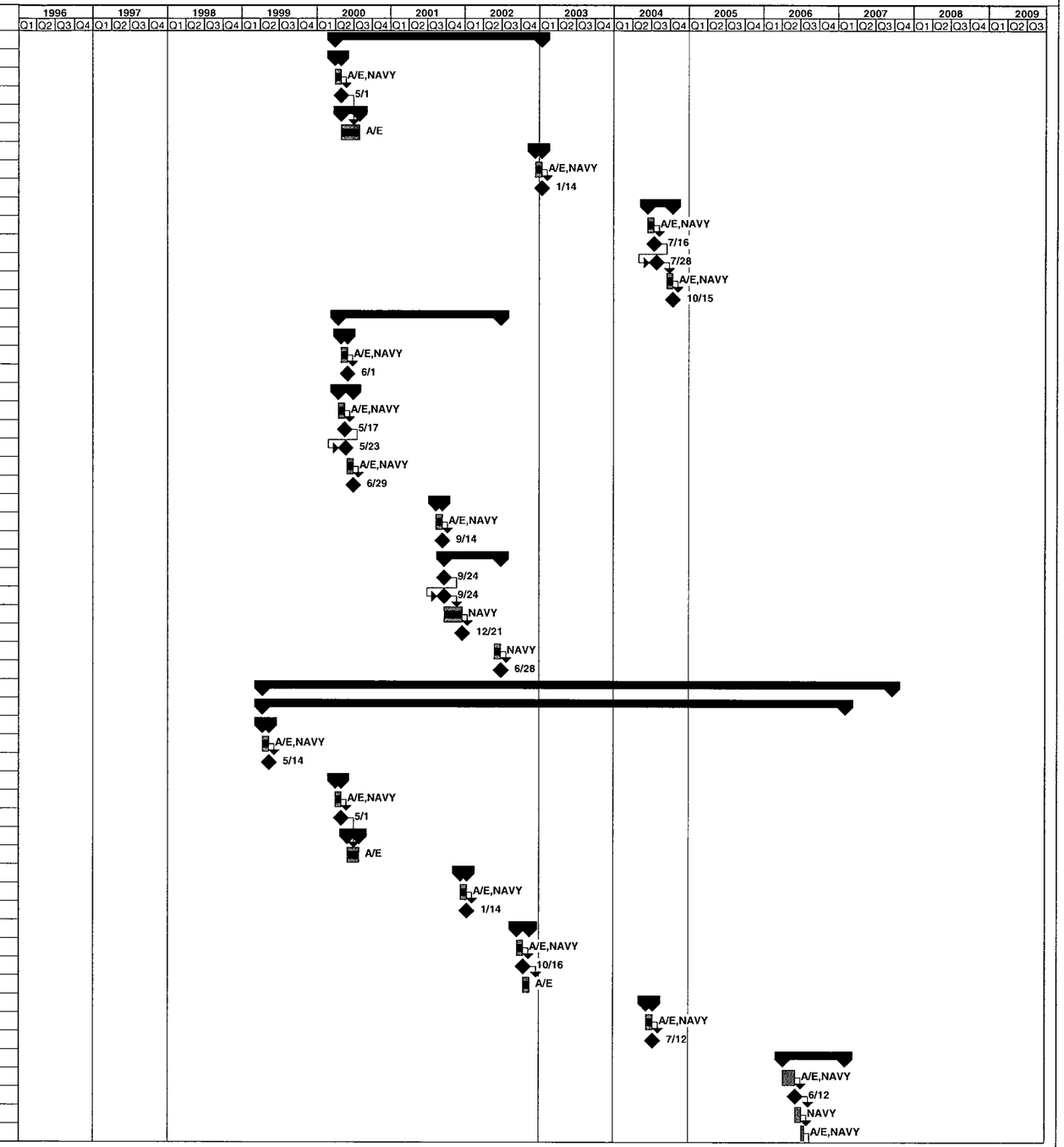
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
361	✓	**REMEDIAL INVESTIGATION**	**1019 days**	**Sat 4/1/00**	**Tue 1/14/03**	**100%**		
362	✓	**Work Plan**	**31 days**	**Sat 4/1/00**	**Mon 5/1/00**	**100%**		
363	✓	Final Work Plan	31 days	Sat 4/1/00	Mon 5/1/00	100%		A/E,NAVY
364	✓	FINAL WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	363	A/E,NAVY
365	✓	**Field Work**	**91 days**	**Tue 5/2/00**	**Mon 7/31/00**	**100%**		
366	✓	Field Work	91 days	Tue 5/2/00	Mon 7/31/00	100%	364	A/E
367	✓	**RI Report**	**32 days**	**Sat 12/14/02**	**Tue 1/14/03**	**100%**		
368	✓	Final RI Report	32 days	Sat 12/14/02	Tue 1/14/03	100%		A/E,NAVY
369	✓	FINAL RI REPORT	0 days	Tue 1/14/03	Tue 1/14/03	100%	368	A/E,NAVY
370	✓	**PROPOSED PLAN/ROD**	**122 days**	**Wed 6/16/04**	**Fri 10/15/04**	**100%**		
371	✓	Final Proposed Plan	31 days	Wed 6/16/04	Fri 7/16/04	100%		A/E,NAVY
372	✓	FINAL PROPOSED PLAN	0 days	Fri 7/16/04	Fri 7/16/04	100%	371	A/E,NAVY
373	✓	PUBLIC MEETING	0 days	Wed 7/28/04	Wed 7/28/04	100%	372FS+12 days	PUBLIC
374	✓	Final ROD	30 days	Thu 9/16/04	Fri 10/15/04	100%	373FS+49 days	A/E,NAVY
375	✓	FINAL ROD	0 days	Fri 10/15/04	Fri 10/15/04	100%	374	A/E,NAVY
376	✓	**SITE 20 - AREA A WEAPONS CENTER (Soil and Sediment - OU7)**	**803 days**	**Mon 4/17/00**	**Fri 6/28/02**	**100%**		
377	✓	**FEASIBILITY STUDY**	**32 days**	**Mon 5/1/00**	**Thu 6/1/00**	**100%**		
378	✓	Final FS Report	32 days	Mon 5/1/00	Thu 6/1/00	100%		A/E,NAVY
379	✓	FINAL FS REPORT	0 days	Thu 6/1/00	Thu 6/1/00	100%	378	A/E,NAVY
380	✓	**PROPOSED PLAN/ROD**	**74 days**	**Mon 4/17/00**	**Thu 6/29/00**	**100%**		
381	✓	Final Proposed Plan	31 days	Mon 4/17/00	Wed 5/17/00	100%		A/E,NAVY
382	✓	FINAL PROPOSED PLAN	0 days	Wed 5/17/00	Wed 5/17/00	100%	381	A/E,NAVY
383	✓	PUBLIC MEETING	0 days	Tue 5/23/00	Tue 5/23/00	100%	382FS+6 days	PUBLIC
384	✓	Final ROD	32 days	Mon 5/29/00	Thu 6/29/00	100%		A/E,NAVY
385	✓	FINAL ROD	0 days	Thu 6/29/00	Thu 6/29/00	100%	384	A/E,NAVY
386	✓	**RD**	**32 days**	**Tue 8/14/01**	**Fri 9/14/01**	**100%**		
387	✓	Final RD	32 days	Tue 8/14/01	Fri 9/14/01	100%		A/E,NAVY
388	✓	FINAL RD	0 days	Fri 9/14/01	Fri 9/14/01	100%	387	A/E,NAVY
389	✓	**RA**	**278 days**	**Mon 9/24/01**	**Fri 6/28/02**	**100%**		
390	✓	Award Construction	0 days	Mon 9/24/01	Mon 9/24/01	100%		NAVY
391	✓	Start of Construction	0 days	Mon 9/24/01	Mon 9/24/01	100%	390	NAVY
392	✓	Construction	89 days	Mon 9/24/01	Fri 12/21/01	100%	391	NAVY
393	✓	End of Construction	0 days	Fri 12/21/01	Fri 12/21/01	100%	392	NAVY
394	✓	Final Remedial Action Report	32 days	Tue 5/28/02	Fri 6/28/02	100%		NAVY
395	✓	FINAL REMEDIAL ACTION REPORT	0 days	Fri 6/28/02	Fri 6/28/02	100%	394	NAVY
396		**BASEWIDE GROUNDWATER OPERABLE UNIT (OU9)**	**3087 days**	**Tue 4/13/99**	**Mon 9/24/07**	**12%**		
397		**RI/FS**	**2860 days**	**Tue 4/13/99**	**Fri 2/9/07**	**45%**		
398	✓	**EDSR**	**32 days**	**Tue 4/13/99**	**Fri 5/14/99**	**100%**		
399	✓	Final EDSR	32 days	Tue 4/13/99	Fri 5/14/99	100%		A/E,NAVY
400	✓	FINAL EDSR	0 days	Fri 5/14/99	Fri 5/14/99	100%	399	A/E,NAVY
401	✓	**Work Plan**	**29 days**	**Mon 4/3/00**	**Mon 5/1/00**	**100%**		
402	✓	Final RI Work Plan	29 days	Mon 4/3/00	Mon 5/1/00	100%		A/E,NAVY
403	✓	FINAL RI WORK PLAN	0 days	Mon 5/1/00	Mon 5/1/00	100%	402	A/E,NAVY
404	✓	**RI Field Work**	**58 days**	**Thu 6/1/00**	**Fri 7/28/00**	**100%**		
405	✓	Field Work	58 days	Thu 6/1/00	Fri 7/28/00	100%	403FS+30 days	A/E
406	✓	**RI Report**	**32 days**	**Fri 12/14/01**	**Mon 1/14/02**	**100%**		
407	✓	Final RI Report	32 days	Fri 12/14/01	Mon 1/14/02	100%		A/E,NAVY
408	✓	FINAL RI REPORT	0 days	Mon 1/14/02	Mon 1/14/02	100%	407	A/E,NAVY
409	✓	**DGI**	**61 days**	**Mon 9/16/02**	**Fri 11/15/02**	**100%**		
410	✓	Final Work Plan	31 days	Mon 9/16/02	Wed 10/16/02	100%		A/E,NAVY
411	✓	FINAL WORK PLAN	0 days	Wed 10/16/02	Wed 10/16/02	100%	410	A/E,NAVY
412	✓	Field Work	30 days	Thu 10/17/02	Fri 11/15/02	100%	411	A/E
413	✓	**RI Update/Feasibility Study**	**32 days**	**Fri 6/11/04**	**Mon 7/12/04**	**100%**		
414	✓	Final RI Update/FS Report	32 days	Fri 6/11/04	Mon 7/12/04	100%		A/E,NAVY
415	✓	FINAL RI UPDATE/FS REPORT	0 days	Mon 7/12/04	Mon 7/12/04	100%	414	A/E,NAVY
416		**Fuel Farm (Site 23)**	**302 days**	**Fri 4/14/06**	**Fri 2/9/07**	**0%**		
417		Rough Draft RI Update/FS	60 days	Fri 4/14/06	Mon 6/12/06	0%		A/E,NAVY
418		ROUGH DRAFT RI UPDATE/FS	0 days	Mon 6/12/06	Mon 6/12/06	0%	417	A/E,NAVY
419		Navy Review	30 days	Tue 6/13/06	Wed 7/12/06	0%	418	NAVY
420		Resolution of Comments	15 days	Thu 7/13/06	Thu 7/27/06	0%	419	A/E,NAVY

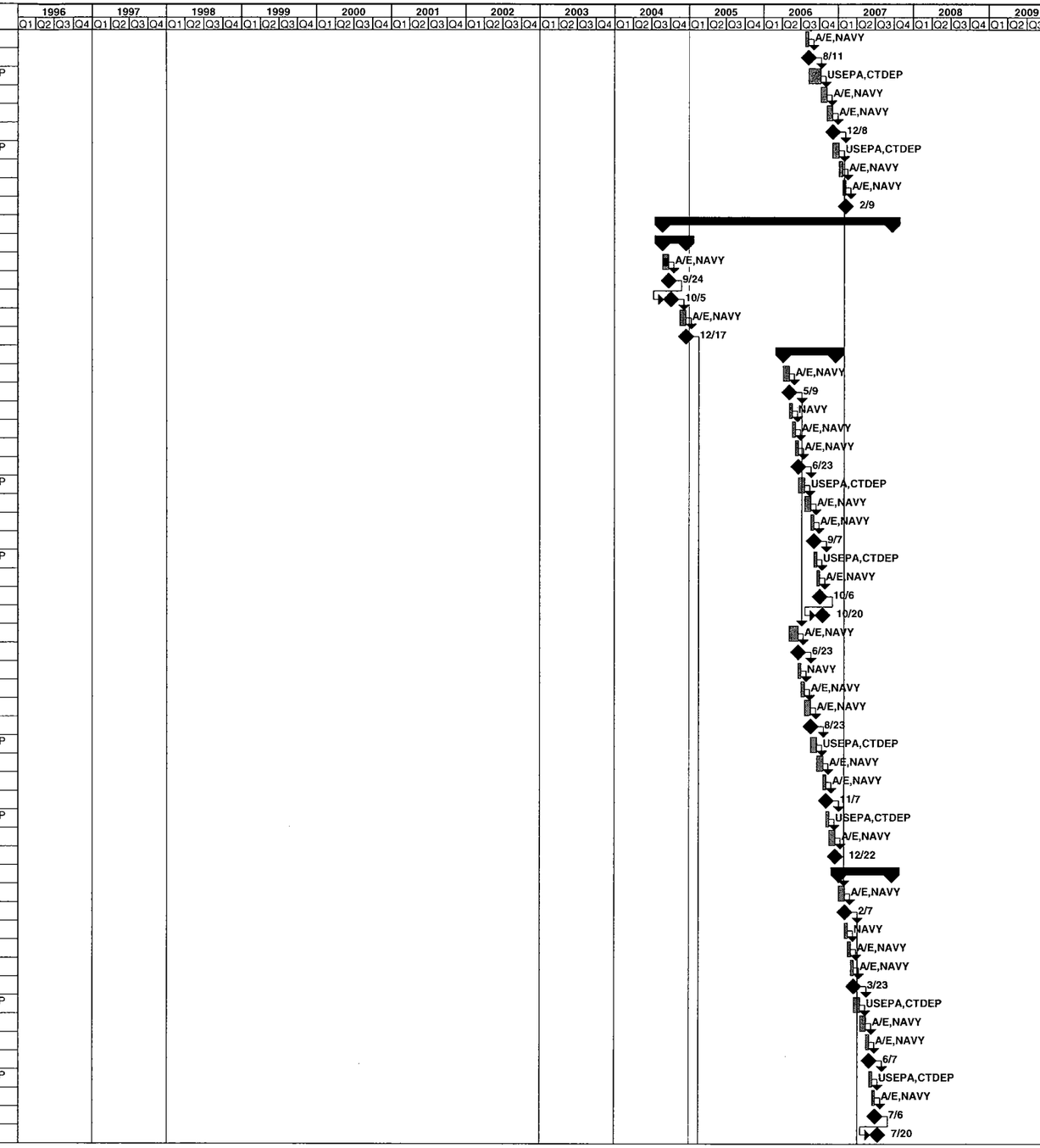


Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
421		Draft RI Update/FS	15 days	Fri 7/28/06	Fri 8/11/06	0%	420	A/E,NAVY
422		DRAFT RI UPDATE/FS	0 days	Fri 8/11/06	Fri 8/11/06	0%	421	A/E,NAVY
423		Regulator Review	60 days	Sat 8/12/06	Tue 10/10/06	0%	422	USEPA,CTDEP
424		Resolution of Comments	30 days	Wed 10/11/06	Thu 11/9/06	0%	423	A/E,NAVY
425		Draft Final RI Update/FS	29 days	Fri 11/10/06	Fri 12/8/06	0%	424	A/E,NAVY
426		DRAFT FINAL RI UPDATE/FS	0 days	Fri 12/8/06	Fri 12/8/06	0%	425	A/E,NAVY
427		Regulator Review	31 days	Sat 12/9/06	Mon 1/8/07	0%	426	USEPA,CTDEP
428		Resolution of Comments	17 days	Tue 1/9/07	Thu 1/25/07	0%	427	A/E,NAVY
429		Final RI Update/FS	15 days	Fri 1/26/07	Fri 2/9/07	0%	428	A/E,NAVY
430		FINAL RI UPDATE/FS	0 days	Fri 2/9/07	Fri 2/9/07	0%	429	A/E,NAVY
431		**PROPOSED PLAN/ROD**	**1126 days**	**Wed 8/25/04**	**Mon 9/24/07**	**4%**		
432		**Sites 3, 7, 14, 15, 18 and 20**	**115 days**	**Wed 8/25/04**	**Fri 12/17/04**	**51%**		
433	✓	Final Proposed Plan	31 days	Wed 8/25/04	Fri 9/24/04	100%		A/E,NAVY
434	✓	FINAL PROPOSED PLAN	0 days	Fri 9/24/04	Fri 9/24/04	100%	433	A/E,NAVY
435	✓	Public Meeting	0 days	Tue 10/5/04	Tue 10/5/04	100%	434FS+11 days	PUBLIC
436		Final Interim ROD	30 days	Thu 11/18/04	Fri 12/17/04	0%	435FS+43 days	A/E,NAVY
437		FINAL INTERIM ROD	0 days	Fri 12/17/04	Fri 12/17/04	0%	436	A/E,NAVY
438		**Site 2**	**257 days**	**Mon 4/10/06**	**Fri 12/22/06**	**0%**		
439		Rough Draft Proposed Plan	30 days	Mon 4/10/06	Tue 5/9/06	0%		A/E,NAVY
440		ROUGH DRAFT PROPOSED PLAN	0 days	Tue 5/9/06	Tue 5/9/06	0%	439	A/E,NAVY
441		Navy Review	15 days	Wed 5/10/06	Wed 5/24/06	0%	440	NAVY
442		Resolution of Comments	15 days	Thu 5/25/06	Thu 6/8/06	0%	441	A/E,NAVY
443		Draft Proposed Plan	15 days	Fri 6/9/06	Fri 6/23/06	0%	442	A/E,NAVY
444		DRAFT PROPOSED PLAN	0 days	Fri 6/23/06	Fri 6/23/06	0%	443	A/E,NAVY
445		Regulator Review	31 days	Sat 6/24/06	Mon 7/24/06	0%	444	USEPA,CTDEP
446		Resolution of Comments	30 days	Tue 7/25/06	Wed 8/23/06	0%	445	A/E,NAVY
447		Draft Final Proposed Plan	15 days	Thu 8/24/06	Thu 9/7/06	0%	446	A/E,NAVY
448		DRAFT FINAL PROPOSED PLAN	0 days	Thu 9/7/06	Thu 9/7/06	0%	447	A/E,NAVY
449		Regulator Concurrence	15 days	Fri 9/8/06	Fri 9/22/06	0%	448	USEPA,CTDEP
450		Final Proposed Plan	14 days	Sat 9/23/06	Fri 10/6/06	0%	449	A/E,NAVY
451		FINAL PROPOSED PLAN	0 days	Fri 10/6/06	Fri 10/6/06	0%	450	A/E,NAVY
452		Public Meeting	0 days	Fri 10/20/06	Fri 10/20/06	0%	451FS+14 days	PUBLIC
453		Rough Draft ROD	45 days	Wed 5/10/06	Fri 6/23/06	0%	440	A/E,NAVY
454		ROUGH DRAFT ROD	0 days	Fri 6/23/06	Fri 6/23/06	0%	453	A/E,NAVY
455		Navy Review	14 days	Sat 6/24/06	Fri 7/7/06	0%	454	NAVY
456		Resolution of Comments	17 days	Sat 7/8/06	Mon 7/24/06	0%	455	A/E,NAVY
457		Draft ROD	30 days	Tue 7/25/06	Wed 8/23/06	0%	456	A/E,NAVY
458		DRAFT ROD	0 days	Wed 8/23/06	Wed 8/23/06	0%	457	A/E,NAVY
459		Regulator Review	30 days	Thu 8/24/06	Fri 9/22/06	0%	458	USEPA,CTDEP
460		Resolution of Comments	31 days	Sat 9/23/06	Mon 10/23/06	0%	459	A/E,NAVY
461		Draft Final ROD	15 days	Tue 10/24/06	Tue 11/7/06	0%	460	A/E,NAVY
462		DRAFT FINAL ROD	0 days	Tue 11/7/06	Tue 11/7/06	0%	461	A/E,NAVY
463		Regulator Concurrence	15 days	Wed 11/8/06	Wed 11/22/06	0%	462	USEPA,CTDEP
464		Final ROD	30 days	Thu 11/23/06	Fri 12/22/06	0%	463	A/E,NAVY
465		FINAL ROD	0 days	Fri 12/22/06	Fri 12/22/06	0%	464	A/E,NAVY
466		**Sites 9 and 23**	**259 days**	**Tue 1/9/07**	**Mon 9/24/07**	**0%**		
467		Rough Draft Proposed Plan	30 days	Tue 1/9/07	Wed 2/7/07	0%	427	A/E,NAVY
468		ROUGH DRAFT PROPOSED PLAN	0 days	Wed 2/7/07	Wed 2/7/07	0%	467	A/E,NAVY
469		Navy Review	15 days	Thu 2/8/07	Thu 2/22/07	0%	468	NAVY
470		Resolution of Comments	15 days	Fri 2/23/07	Fri 3/9/07	0%	469	A/E,NAVY
471		Draft Proposed Plan	14 days	Sat 3/10/07	Fri 3/23/07	0%	470	A/E,NAVY
472		DRAFT PROPOSED PLAN	0 days	Fri 3/23/07	Fri 3/23/07	0%	471	A/E,NAVY
473		Regulator Review	31 days	Sat 3/24/07	Mon 4/23/07	0%	472	USEPA,CTDEP
474		Resolution of Comments	30 days	Tue 4/24/07	Wed 5/23/07	0%	473	A/E,NAVY
475		Draft Final Proposed Plan	15 days	Thu 5/24/07	Thu 6/7/07	0%	474	A/E,NAVY
476		DRAFT FINAL PROPOSED PLAN	0 days	Thu 6/7/07	Thu 6/7/07	0%	475	A/E,NAVY
477		Regulator Concurrence	15 days	Fri 6/8/07	Fri 6/22/07	0%	476	USEPA,CTDEP
478		Final Proposed Plan	14 days	Sat 6/23/07	Fri 7/6/07	0%	477	A/E,NAVY
479		FINAL PROPOSED PLAN	0 days	Fri 7/6/07	Fri 7/6/07	0%	478	A/E,NAVY
480		Public Meeting	0 days	Fri 7/20/07	Fri 7/20/07	0%	479FS+14 days	PUBLIC



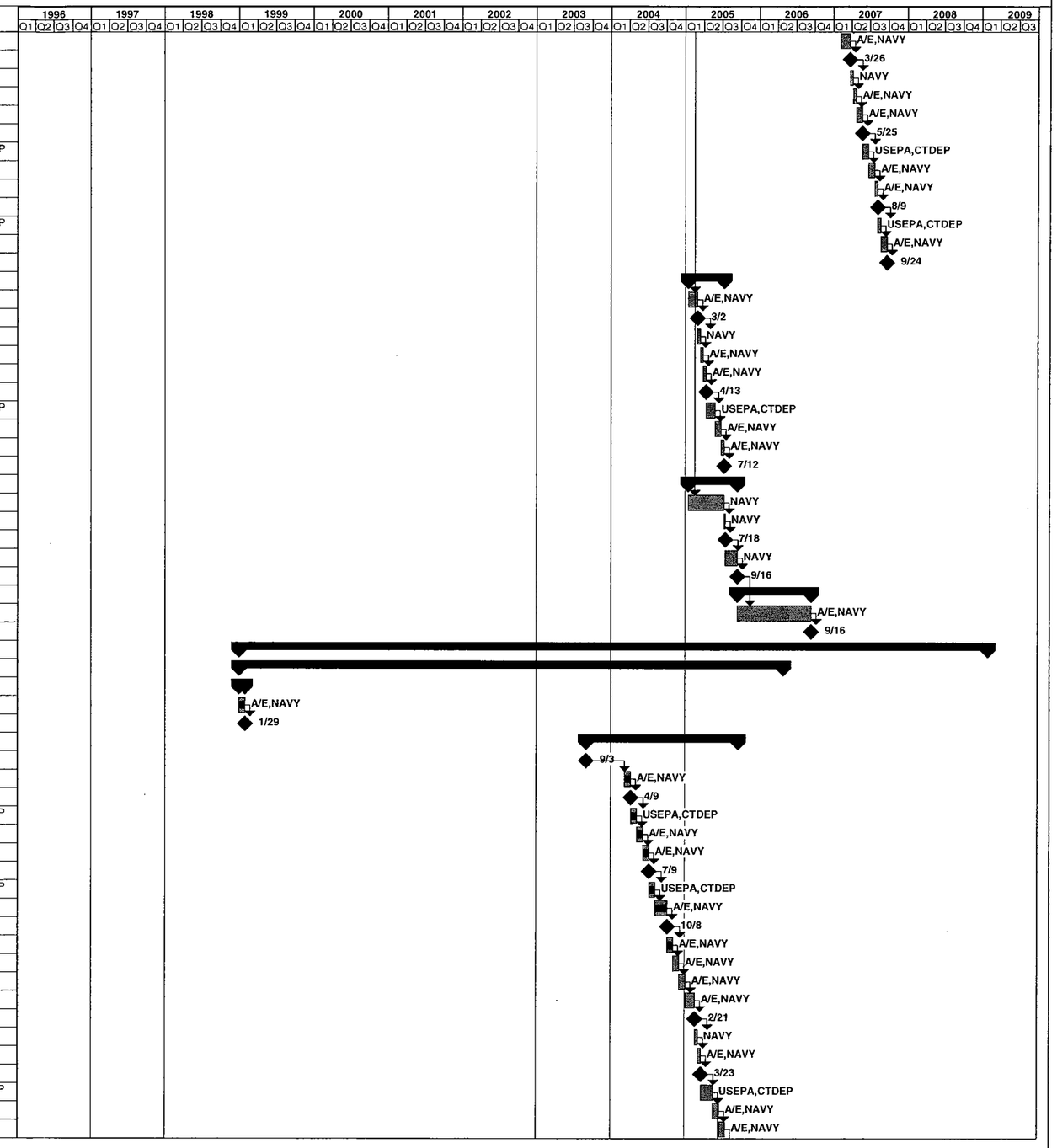
Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE
NSB-NLON

Rev. 4 November 2004

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
481		Rough Draft ROD	47 days	Thu 2/8/07	Mon 3/26/07	0%	468	A/E,NAVY
482		ROUGH DRAFT ROD	0 days	Mon 3/26/07	Mon 3/26/07	0%	481	A/E,NAVY
483		Navy Review	15 days	Tue 3/27/07	Tue 4/10/07	0%	482	NAVY
484		Resolution of Comments	15 days	Wed 4/11/07	Wed 4/25/07	0%	483	A/E,NAVY
485		Draft ROD	30 days	Thu 4/26/07	Fri 5/25/07	0%	484	A/E,NAVY
486		DRAFT ROD	0 days	Fri 5/25/07	Fri 5/25/07	0%	485	A/E,NAVY
487		Regulator Review	31 days	Sat 5/26/07	Mon 6/25/07	0%	486	USEPA,CTDEP
488		Resolution of Comments	30 days	Tue 6/26/07	Wed 7/25/07	0%	487	A/E,NAVY
489		Draft Final ROD	15 days	Thu 7/26/07	Thu 8/9/07	0%	488	A/E,NAVY
490		DRAFT FINAL ROD	0 days	Thu 8/9/07	Thu 8/9/07	0%	489	A/E,NAVY
491		Regulator Concurrence	15 days	Fri 8/10/07	Fri 8/24/07	0%	490	USEPA,CTDEP
492		Final ROD	31 days	Sat 8/25/07	Mon 9/24/07	0%	491	A/E,NAVY
493		FINAL ROD	0 days	Mon 9/24/07	Mon 9/24/07	0%	492	A/E,NAVY
494		**RD (Sites 3 and 7)**	**177 days**	**Mon 1/17/05**	**Tue 7/12/05**	**0%**		
495		Rough Draft RD Work Plan	45 days	Mon 1/17/05	Wed 3/2/05	0%	437FS+30 days	A/E,NAVY
496		ROUGH DRAFT RD WORK PLAN	0 days	Wed 3/2/05	Wed 3/2/05	0%	495	A/E,NAVY
497		Navy Review Period	14 days	Thu 3/3/05	Wed 3/16/05	0%	496	NAVY
498		Resolution of Comments	14 days	Thu 3/17/05	Wed 3/30/05	0%	497	A/E,NAVY
499		Draft RD Work Plan	14 days	Thu 3/31/05	Wed 4/13/05	0%	498	A/E,NAVY
500		DRAFT RD WORK PLAN	0 days	Wed 4/13/05	Wed 4/13/05	0%	499	A/E,NAVY
501		Regulator Review	45 days	Thu 4/14/05	Sat 5/28/05	0%	500	USEPA,CTDEP
502		Resolution of Comments	30 days	Sun 5/29/05	Mon 6/27/05	0%	501	A/E,NAVY
503		Final RD Work Plan	15 days	Tue 6/28/05	Tue 7/12/05	0%	502	A/E,NAVY
504		FINAL RD WORK PLAN	0 days	Tue 7/12/05	Tue 7/12/05	0%	503	A/E,NAVY
505		**RA (Sites 3 and 7)**	**243 days**	**Mon 1/17/05**	**Fri 9/16/05**	**0%**		
506		Contract Action	177 days	Mon 1/17/05	Tue 7/12/05	0%	437FS+30 days	NAVY
507		Award Construction	6 days	Wed 7/13/05	Mon 7/18/05	0%	506	NAVY
508		Start of Construction	0 days	Mon 7/18/05	Mon 7/18/05	0%	507	NAVY
509		Construction	60 days	Tue 7/19/05	Fri 9/16/05	0%	508	NAVY
510		End of Construction	0 days	Fri 9/16/05	Fri 9/16/05	0%	509	NAVY
511		**LONG-TERM GROUNDWATER MONITORING (Sites 3 and 7)**	**365 days**	**Sat 9/17/05**	**Sat 9/16/06**	**0%**		
512		Year 1 Annual Report	365 days	Sat 9/17/05	Sat 9/16/06	0%	510	A/E,NAVY
513		YEAR 1 ANNUAL REPORT	0 days	Sat 9/16/06	Sat 9/16/06	0%	512	A/E,NAVY
514		**LOWER SUBASE SITES 10,11,13,17,19,21,22,24,25, and Thames River**	**3688 days**	**Thu 12/31/98**	**Tue 2/3/09**	**12%**		
515		**RI/FS**	**2681 days**	**Thu 12/31/98**	**Wed 5/3/06**	**29%**		
516	✓	**Remedial Investigation**	**30 days**	**Thu 12/31/98**	**Fri 1/29/99**	**100%**		
517	✓	Final RI Report	30 days	Thu 12/31/98	Fri 1/29/99	100%		A/E,NAVY
518	✓	FINAL RI REPORT	0 days	Fri 1/29/99	Fri 1/29/99	100%	517	A/E,NAVY
519		**Thames River Ecological Investigation Report**	**750 days**	**Wed 9/3/03**	**Wed 9/21/05**	**43%**		
520	✓	Final Survey Report	0 days	Wed 9/3/03	Wed 9/3/03	100%		A/E,NAVY
521	✓	Draft Work Plan for Eco Investigation	30 days	Thu 3/11/04	Fri 4/9/04	100%	520FS+190 days	A/E,NAVY
522	✓	DRAFT WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 4/9/04	Fri 4/9/04	100%	521	A/E,NAVY
523	✓	Regulator Review	31 days	Sat 4/10/04	Mon 5/10/04	100%	522	USEPA,CTDEP
524	✓	Resolution of Comments	30 days	Tue 5/11/04	Wed 6/9/04	100%	523	A/E,NAVY
525	✓	Draft Final Work Plan for Eco Investigation	30 days	Thu 6/10/04	Fri 7/9/04	100%	524	A/E,NAVY
526	✓	DRAFT FINAL WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 7/9/04	Fri 7/9/04	100%	525	A/E,NAVY
527	✓	Regulator Concurrence	31 days	Sat 7/10/04	Mon 8/9/04	100%	526	USEPA,CTDEP
528	✓	Final Work Plan for Eco Investigation	60 days	Tue 8/10/04	Fri 10/8/04	100%	527	A/E,NAVY
529	✓	FINAL WORK PLAN FOR ECO INVESTIGATION	0 days	Fri 10/8/04	Fri 10/8/04	100%	528	A/E,NAVY
530	✓	Field Work	28 days	Sat 10/9/04	Fri 11/5/04	100%	529	A/E,NAVY
531		Sample Analysis	31 days	Sat 11/6/04	Mon 12/6/04	0%	530	A/E,NAVY
532		Validation	31 days	Tue 12/7/04	Thu 1/6/05	0%	531	A/E,NAVY
533		Rough Draft Eco Inv Report	46 days	Fri 1/7/05	Mon 2/21/05	0%	532	A/E,NAVY
534		ROUGH DRAFT ECO INV REPORT	0 days	Mon 2/21/05	Mon 2/21/05	0%	533	A/E,NAVY
535		Navy Review	15 days	Tue 2/22/05	Tue 3/8/05	0%	534	NAVY
536		Draft Eco Inv Report	15 days	Wed 3/9/05	Wed 3/23/05	0%	535	A/E,NAVY
537		DRAFT ECO INV REPORT	0 days	Wed 3/23/05	Wed 3/23/05	0%	536	A/E,NAVY
538		Regulator Review	61 days	Thu 3/24/05	Mon 5/23/05	0%	537	USEPA,CTDEP
539		Resolution of Comments	30 days	Tue 5/24/05	Wed 6/22/05	0%	538	A/E,NAVY
540		Draft Final Eco Inv Report	30 days	Thu 6/23/05	Fri 7/22/05	0%	539	A/E,NAVY

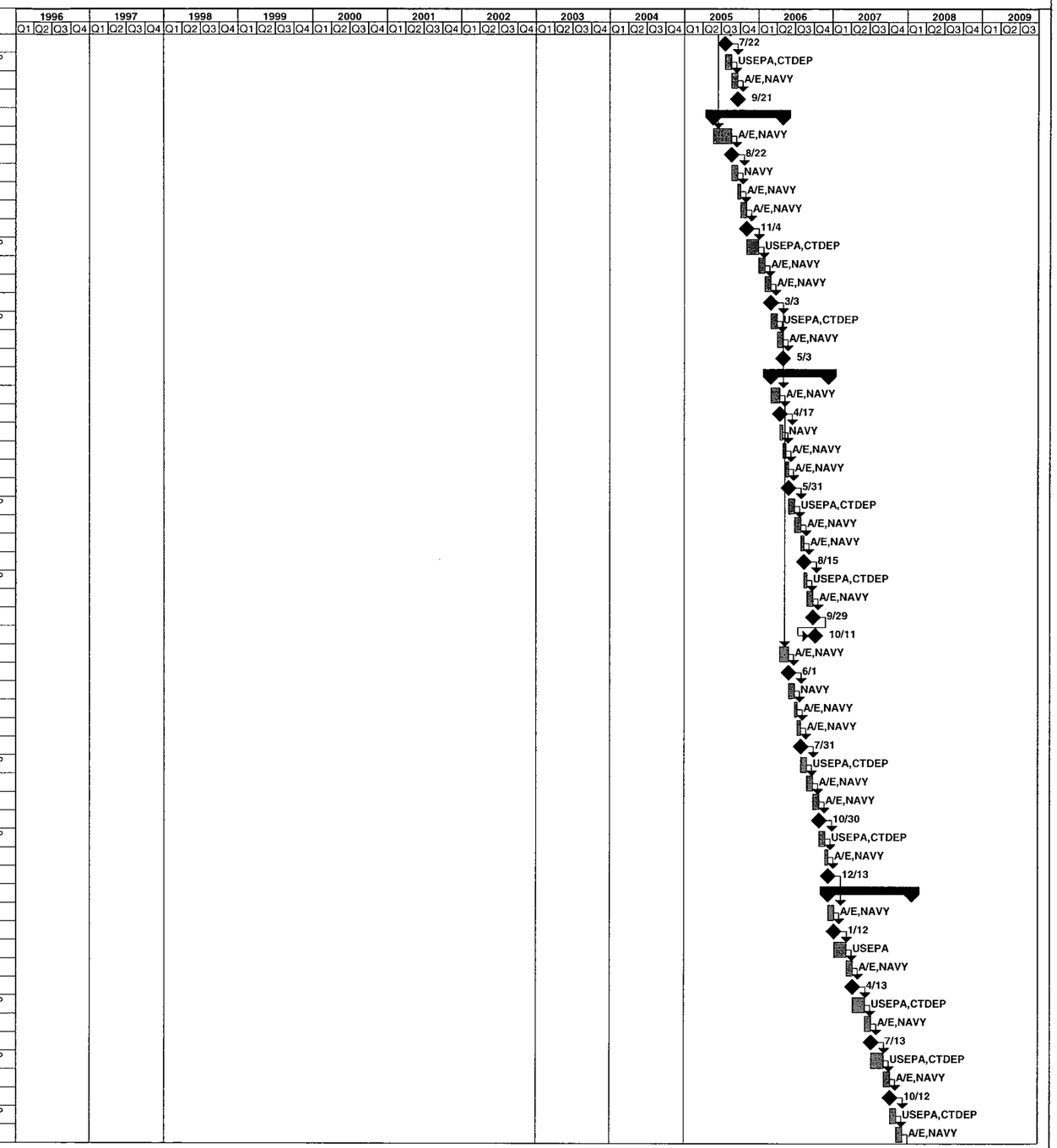


Project: SMP2004sched03
Date: Wed 11/24/04

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary | Split | Rolled Up Split | External Milestone | Deadline

2004 SMP SCHEDULE
NSB-NLON

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
541		DRAFT FINAL ECO INV REPORT	0 days	Fri 7/22/05	Fri 7/22/05	0%	540	A/E,NAVY
542		Regulator Concurrence	31 days	Sat 7/23/05	Mon 8/22/05	0%	541	USEPA,CTDEP
543		Final Eco Inv Report	30 days	Tue 8/23/05	Wed 9/21/05	0%	542	A/E,NAVY
544		FINAL ECO INV REPORT	0 days	Wed 9/21/05	Wed 9/21/05	0%	543	A/E,NAVY
545		**Feasibility Study (SO, GW, and Thames River SD)**	**345 days**	**Tue 5/24/05**	**Wed 5/3/06**	**0%**		
546		Rough Draft FS	91 days	Tue 5/24/05	Mon 8/22/05	0%	538	A/E,NAVY
547		ROUGH DRAFT FS	0 days	Mon 8/22/05	Mon 8/22/05	0%	546	A/E,NAVY
548		Navy Review	30 days	Tue 8/23/05	Wed 9/21/05	0%	547	NAVY
549		Resolution of Comments	15 days	Thu 9/22/05	Thu 10/6/05	0%	548	A/E,NAVY
550		Draft FS Report	29 days	Fri 10/7/05	Fri 11/4/05	0%	549	A/E,NAVY
551		DRAFT FS REPORT	0 days	Fri 11/4/05	Fri 11/4/05	0%	550	A/E,NAVY
552		Regulator Review	60 days	Sat 11/5/05	Tue 1/3/06	0%	551	USEPA,CTDEP
553		Resolution of Comments	30 days	Wed 1/4/06	Thu 2/2/06	0%	552	A/E,NAVY
554		Draft Final FS Report	29 days	Fri 2/3/06	Fri 3/3/06	0%	553	A/E,NAVY
555		DRAFT FINAL FS REPORT	0 days	Fri 3/3/06	Fri 3/3/06	0%	554	A/E,NAVY
556		Regulator Concurrence	31 days	Sat 3/4/06	Mon 4/3/06	0%	555	USEPA,CTDEP
557		Final FS Report	30 days	Tue 4/4/06	Wed 5/3/06	0%	556	A/E,NAVY
558		FINAL FS REPORT	0 days	Wed 5/3/06	Wed 5/3/06	0%	557	A/E,NAVY
559		**PROPOSED PLAN/ROD (Zones and Thames River - OU4)**	**285 days**	**Sat 3/4/06**	**Wed 12/13/06**	**0%**		
560		Rough Draft Proposed Plan	45 days	Sat 3/4/06	Mon 4/17/06	0%	555	A/E,NAVY
561		ROUGH DRAFT PROPOSED PLAN	0 days	Mon 4/17/06	Mon 4/17/06	0%	560	A/E,NAVY
562		Navy Review	15 days	Tue 4/18/06	Tue 5/2/06	0%	561	NAVY
563		Resolution of Comments	15 days	Wed 5/3/06	Wed 5/17/06	0%	562	A/E,NAVY
564		Draft Proposed Plan	14 days	Thu 5/18/06	Wed 5/31/06	0%	563	A/E,NAVY
565		DRAFT PROPOSED PLAN	0 days	Wed 5/31/06	Wed 5/31/06	0%	564	A/E,NAVY
566		Regulator Review Period	30 days	Thu 6/1/06	Fri 6/30/06	0%	565	USEPA,CTDEP
567		Resolution of Comments	31 days	Sat 7/1/06	Mon 7/31/06	0%	566	A/E,NAVY
568		Draft Final Proposed Plan	15 days	Tue 8/1/06	Tue 8/15/06	0%	567	A/E,NAVY
569		DRAFT FINAL PROPOSED PLAN	0 days	Tue 8/15/06	Tue 8/15/06	0%	568	A/E,NAVY
570		Regulator Concurrence	15 days	Wed 8/16/06	Wed 8/30/06	0%	569	USEPA,CTDEP
571		Final Proposed Plan	30 days	Thu 8/31/06	Fri 9/29/06	0%	570	A/E,NAVY
572		FINAL PROPOSED PLAN	0 days	Fri 9/29/06	Fri 9/29/06	0%	571	A/E,NAVY
573		PUBLIC MEETING	0 days	Wed 10/11/06	Wed 10/11/06	0%	572FS+12 days	PUBLIC
574		Rough Draft ROD	45 days	Tue 4/18/06	Thu 6/1/06	0%	560	A/E,NAVY
575		ROUGH DRAFT ROD	0 days	Thu 6/1/06	Thu 6/1/06	0%	574	A/E,NAVY
576		Navy Review	29 days	Fri 6/2/06	Fri 6/30/06	0%	575	NAVY
577		Resolution of Comments	14 days	Sat 7/1/06	Fri 7/14/06	0%	576	A/E,NAVY
578		Draft ROD	17 days	Sat 7/15/06	Mon 7/31/06	0%	577	A/E,NAVY
579		DRAFT ROD	0 days	Mon 7/31/06	Mon 7/31/06	0%	578	A/E,NAVY
580		Regulator Review Period	30 days	Tue 8/1/06	Wed 8/30/06	0%	579	USEPA,CTDEP
581		Resolution of Comments	30 days	Thu 8/31/06	Fri 9/29/06	0%	580	A/E,NAVY
582		Draft Final ROD	31 days	Sat 9/30/06	Mon 10/30/06	0%	581	A/E,NAVY
583		DRAFT FINAL ROD	0 days	Mon 10/30/06	Mon 10/30/06	0%	582	A/E,NAVY
584		Regulator Concurrence	30 days	Tue 10/31/06	Wed 11/29/06	0%	583	USEPA,CTDEP
585		Final ROD	14 days	Thu 11/30/06	Wed 12/13/06	0%	584	A/E,NAVY
586		FINAL ROD	0 days	Wed 12/13/06	Wed 12/13/06	0%	585	A/E,NAVY
587		**RD**	**408 days**	**Thu 12/14/06**	**Fri 1/25/08**	**0%**		
588		Scope of Work for RD/RA	30 days	Thu 12/14/06	Fri 1/12/07	0%	586	A/E,NAVY
589		SCOPE OF WORK FOR RD/RA	0 days	Fri 1/12/07	Fri 1/12/07	0%	588	A/E,NAVY
590		Regulator Review	60 days	Sat 1/13/07	Tue 3/13/07	0%	589	USEPA
591		RD Work Plan (35%)	31 days	Wed 3/14/07	Fri 4/13/07	0%	590	A/E,NAVY
592		RD WORK PLAN (35%)	0 days	Fri 4/13/07	Fri 4/13/07	0%	591	A/E,NAVY
593		Regulator Review	60 days	Sat 4/14/07	Tue 6/12/07	0%	592	USEPA,CTDEP
594		60% RD	31 days	Wed 6/13/07	Fri 7/13/07	0%	593	A/E,NAVY
595		60% RD	0 days	Fri 7/13/07	Fri 7/13/07	0%	594	A/E,NAVY
596		Regulator Review	60 days	Sat 7/14/07	Tue 9/11/07	0%	595	USEPA,CTDEP
597		85% RD	31 days	Wed 9/12/07	Fri 10/12/07	0%	596	A/E,NAVY
598		85% RD	0 days	Fri 10/12/07	Fri 10/12/07	0%	597	A/E,NAVY
599		Regulator Review	31 days	Sat 10/13/07	Mon 11/12/07	0%	598	USEPA,CTDEP
600		Final RD	30 days	Tue 11/13/07	Wed 12/12/07	0%	599	A/E,NAVY

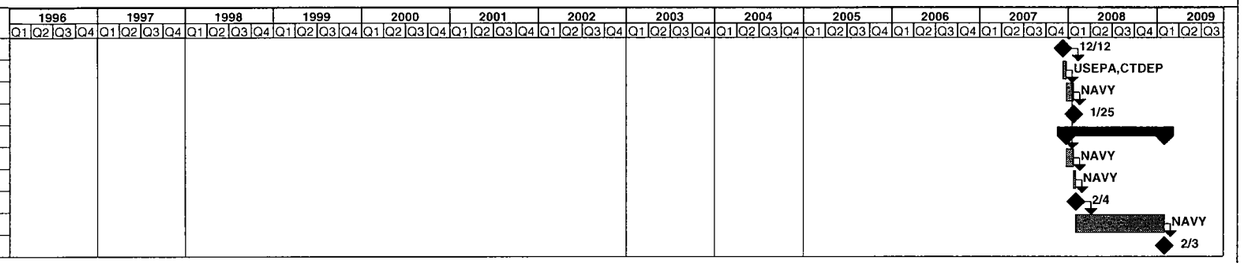


Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

2004 SMP SCHEDULE
NSB-NLON

ID		Task Name	Duration	Start	Finish	% Complete	Predecessors	Resource Names
601		FINAL RD	0 days	Wed 12/12/07	Wed 12/12/07	0%	600	A/E,NAVY
602		Regulator Review/Concurrence	14 days	Thu 12/13/07	Wed 12/26/07	0%	601	USEPA,CTDEP
603		RAWP(Secondary)	30 days	Thu 12/27/07	Fri 1/25/08	0%	602	NAVY
604		RAWP(Secondary)	0 days	Fri 1/25/08	Fri 1/25/08	0%	603	NAVY
605		**RA**	**405 days**	**Thu 12/27/07**	**Tue 2/3/09**	**0%**		
606		Contract Action	30 days	Thu 12/27/07	Fri 1/25/08	0%	602	NAVY
607		Award Construction	10 days	Sat 1/26/08	Mon 2/4/08	0%	606	NAVY
608		Start of Construction	0 days	Mon 2/4/08	Mon 2/4/08	0%	607	NAVY
609		Construction	365 days	Tue 2/5/08	Tue 2/3/09	0%	608	NAVY
610		End of Construction	0 days	Tue 2/3/09	Tue 2/3/09	0%	609	NAVY



Project: SMP2004sched03
Date: Wed 11/24/04

Task | Milestone | Rolled Up Task | Rolled Up Progress | Project Summary | Rolled Up Split | Deadline
Progress | Summary | Rolled Up Milestone | External Tasks | Split | External Milestone

APPENDIX B

ADMINISTRATIVE RECORD INDEX

ADMINISTRATIVE RECORD INDEX
NAVAL SUBMARINE BASE - NEW LONDON, GROTON, CONNECTICUT

CD NO	DOC NO	USEPA CATEGORY CODE	CTO NO	DATE	TYPE OF DOCUMENT	TITLE/SUBJECT	AUTHOR	RECIPIENT	COMMENT	SITES CONTAINED IN DOCUMENT	No OF PAGES (APPROX.)	KEY WORDS
1	0001	01.03		2/11/1979	Report	NESO 1-026 - Oil Contamination of the Groundwater	NESO		Oil Contaminated Groundwater		15	Oil, Contamination, Groundwater
1	0620	01.04		9/1/1982	Report	Draft Initial Assessment Study (NEESA 13-025)	Envirodyne Engineers	NACIP/NEESA	Draft Initial Assessment Study		225	Initial Assessment Study, Draft, NEESA 13-025
1	0002	01.04		3/1/1983	Report	Final Initial Assessment Study of Naval Submarine Base New London, Groton, Connecticut NEESA 13-025	Envirodyne Engineers, Inc.	Navy Assessment and Control of Installation Pollutants(NACIP) Department, Naval Energy and Environmental Support Activity	1983 IAS		125	Initial Assessment Study
1	0608	01.05		10/19/1985	Report	Draft Confirmation Study Step IA - Verification Study	Wehran Engineering	U.S. Navy, NorthDiv	Draft Confirmation Study Step IA-Verification Study		300	Confirmation Study, Step IA, Draft, Verification Study
1	0617	01.02		3/1/1986	Report	Draft Plan of Action, Subsurface Oil Investigation, Confirmation Study	Wehran Engineering	U.S. Navy, NorthDiv	Draft Plan of Action		20	Subsurface Oil, Investigation, Confirmation Study, Plan of Action, Draft
1	0618	01.02		11/1/1986	Report	Synopsis of Field and Laboratory Data for Soil Sampling Adjacent to the Subsurface Gas Tank, Building 107	Geotoxi Assoc.	NSB-NLON	Field and Laboratory Data Synopsis	Building 107	20	Field, Laboratory Data, Synopsis, Soil Sampling, Subsurface Gas Tank, Building 107
1	0619	01.05		4/1/1987	Report	Draft Confirmation Study Step IA - Verification Report - Subsurface Oil, Lower Subase	Wehran Engineering	U.S. Navy, NorthDiv	Draft Confirmation Study Step IA	Lower Subase	200	Confirmation Study, Step IA, Verification Report, Subsurface Oil, Lower Subase
1	0003	01.03		11/30/1987	Report	Final Site Investigation Subsurface Oil Contamination - Lower Subase	Wehran Engineers & Scientists	U.S. Navy, NorthDiv	1987 FSI	Lower Subase	140	Oil Contamination, Lower Subase
1	0004	01.02		1/1/1988	Report	Data Report - Conforming Storage Facility, Groton, Connecticut, prepared for Donahue and Associates, Inc.	Goldberg-Zoino & Associates, Inc.	Donahue & Associates	Data Report	Conforming Storage Facility	100	Conforming Storage Facility
1	0674	01.04		2/1/1988	Report	Final Draft Verification Step IA Study for the DPDO Over Bank Disposal Area, and Area A Landfill	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Final Draft Verification Step IA Study for DPDO	Defense Reutilization and Marketing Office (DRMO) (Site 6), Pond Overbank Disposal Area (OBDA) (Site 3), Area A Landfill (Site 2)	200	Verification Step IA, Final Draft, DPDO, Over Bank Disposal Area, Area A, Landfill
1	0005	01.04		2/29/1988	Report	Final Verification Step IA Study, Naval Submarine Base - New London, Connecticut	Wehran Engineering Corporation	U.S. Navy, NorthDiv	Verification Study	Area A Landfill (Site 2), Pond Over Bank Disposal Area (OBDA) Debris (Site 3), Defense Reutilization and Marketing Office (DRMO) (Site 6)	200	Verification Step 1A Study, Area A Landfill, OBDA, DPDO Area
1	0006	11.05		6/1/1988	Report	Sampling and Chemical Analysis Quality Assurance Requirements for Navy IRS	Naval Energy & Environment	U.S. Dept. of Energy	Quality Assurance Requirements		90	Sampling, Chemical Analysis, Q/A
1	0610	03.03		11/1/1988	Report	Draft Field Sampling Plan, Installation Restoration Study	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Field Sampling Plan, Installation Restoration Study		200	Field Sampling Plan, Draft, Installation Restoration Study
1	0612	03.03		11/1/1988	Report	Draft Quality Assurance/Quality Control and Data Management Plan	Atlantic Environmental	U.S. Navy, NorthDiv	Draft QA/QC and Data Management Plan		50	Quality Assurance, Quality Control, Draft, Management Plan
1	0614	03.03		11/1/1988	Report	Draft Health and Safety Plan, Installation Restoration Program	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft H&S Plan, Installation Restoration Program		100	Health and Safety Plan, Draft, Installation Restoration Program
1	0436	10.05		11/9/1988	Meeting Minutes	Minutes to October 31, 1988 meeting to discuss Plan of Action for the Installation Restoration Study. Attendees were Paul Burgess (Atlantic), Curt Kraemer (Atlantic), Bob Magee (NorthDiv), Bill Mansfield (NSB-NLON), Commander Loyacano (PWO NSB-NLON), Adrienne Townsel (NorthDiv)	Paul Burgess Atlantic Environmental Services, Inc.	All Attendees	Installation Restoration Study Plan of Action Meeting Minutes (10-31-88)		6	Minutes, Plan of Action, Installation Restoration Program
1	0426	10.05		12/2/1988	Meeting Minutes	Minutes for TRC Meeting on November 28, 1988. Attendees from Atlantic, PW Energy & Environ, Nautilus Memorial, CSGI SJA, CSGII PAO, PWO, Town of Ledyard, DRMO, Town of Groton	Paul Burgess Atlantic Environmental Services, Inc.	Adrienne Townsel U.S. Navy, NorthDiv William Mansfield Public Works Dept, Groton, CT	TRC Meeting Minutes (11-28-88)		3	TRC Meeting, Minutes
1	0421	10.05		3/16/1989	Meeting Minutes	Minutes to TRC Meeting on March 14, 1989. Attendees from Atlantic, Town of Ledyard, CSGII PAO, NorthDiv, Town of Groton, NSB-NLON,	Paul Burgess Atlantic Environmental Services, Inc.	Adrienne Townsel U.S. Navy, NorthDiv William Mansfield Public Works Dept, Groton, CT	TRC Meeting Minutes (3-14-89)		6	TRC Meeting, Minutes
1	0630	04.04		4/1/1989	Report	Final Plan of Action, Installation Restoration Study	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Final Plan of Action		600	Plan of Action, Final, Installation Restoration Study
1	0008	01.02	267	8/1/1989	Report	Goldberg-Zoino & Associates, Inc.(subcontractor to Donohue and Associates, Inc.) Data Report- Additional Borings Conforming Storage Facility, Groton, Connecticut. Prepared for the Navy, NorthDiv, NAVFAC.	Goldberg-Zoino & Associates, Inc.(subcontractor to Donohue and Associates, Inc.)	U.S. Navy, NorthDiv	Data Report-Additional Borings Conforming Storage Facility	Conforming Storage Facility	225	Borings, Conforming Storage Facility
1	0009	01.02		9/1/1989	Report	Hydrogeologic Investigation Underground Storage Tanks OT-4, OT-7, OT-8, OT-9, and 54H, Naval Submarine Base - New London, Groton, Connecticut	Fuss & O'Neill, Inc.	U.S. Navy, NorthDiv	Hydrogeologic Investigation - Storage Tanks	Tank Farm (Site 23), Lower Subase	200	Hydrogeologic Investigation, USTs, Tank Farm, Lower Subase

ADMINISTRATIVE RECORD INDEX
NAVAL SUBMARINE BASE - NEW LONDON, GROTON, CONNECTICUT

CD NO	DOC NO	USEPA CATEGORY CODE	CTO NO	DATE	TYPE OF DOCUMENT	TITLE/SUBJECT	AUTHOR	RECIPIENT	COMMENT	SITES CONTAINED IN DOCUMENT	No OF PAGES (APPROX.)	KEY WORDS
1	0613	01.02		11/1/1989	Report	Plan of Action for Naval Exchange Gas Station UST Spill Investigation and Remedial Design	O'Brien & Gere	U.S. Navy, NorthDiv	Plan of Action	NEX Gas Station	100	Plan of Action, Naval Exchange, Gas Station, UST Spill Investigation, Remedial Design
1	0611	01.02		4/1/1990	Report	Field Report Sediment Sampling, Thames River	Maguire Group	U.S. Navy, NorthDiv	Field Report	Thames River	200	Field Report, Sediment Sampling, Thames Rv.
1	0437	10.01		6/7/1990	Letter	Invitation for Community Participation in TRC Meetings	J.N. Loyacano NSB-NLON	Catherine J. Kolnaski Mayor, Groton Parke Spicer Town of Preston Anthony J. Gigliotti Town of Waterford Wayne Scott Town of Montville Ernest M. Zmysinski City of Norwich C. Francis Driscoll City of New London	TRC Meeting-Invitation for Community Participation		1	TRC Meeting, Invitation
1	0418	10.05		7/17/1990	Meeting Minutes	Minutes to Public Meeting on June 21, 1990. Attendees from Atlantic, Town of Ledyard, USEPA, NorthDiv, Town of Groton, City of Groton, CTDEP, NSB-NLON, Town of Waterford, City of New London	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	Public Meeting Minutes (6-21-90		40	Public Meeting, Minutes
1	0427	10.05		7/17/1990	Meeting Minutes	Minutes for TRC Meeting on June 21, 1990. Attendees from Atlantic, Town of Ledyard, USEPA, NorthDiv, Town of Groton, City of Groton, CTDEP, NSB-NLON, Town of Waterford, City of New London	Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (6-21-90)		5	TRC Meeting, Minutes
1	0463	10.05		7/17/1990	Meeting Minutes	Minutes, Attendance Sheet and Transmittal of June 21, 1990 TRC Meeting. Attendees from Atlantic, Town of Ledyard, USEPA, Navy, Town of Groton, City of Groton, CTDEP, NSB-NLON, Town of Waterford, City of New London	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes, Attendance Sheet, and Transmittal (6-21-90)		7	TRC Meeting, Minutes, Attendance Sheet, and Transmittal
1	0438	10.01		8/7/1990	Letter	Welcome Participation in TRC Meetings	Nelson G. Goddard NSB-NLON	Clifford Striba Uncas Health District Ronald Ochsner Resident, Gales Ferry Robert Fromer Resident, New London Eugene A. Cioffi Resident, Groton	TRC Meetings-Welcome Participation		1	TRC Meeting, Participation
1	0621	01.02		9/18/1990	Report	Radiological Assessment	Radiation Safety Associates	Paul Burgess Atlantic Environmental	Radiological Assessment		50	Radiological, Assessment
1	0622	01.02		10/1/1990	Report	Geophysical Investigations (1990)	Weston Geophysical	Atlantic Environmental Services, Inc.	Geophysical Investigations (1990)		100	Geophysical, Investigations
1	0661	01.02		10/1/1990	Report	Final Report Naval Exchange Gas Station UST Spill Investigation	O'Brien & Gere	U.S. Navy, NorthDiv	Spill Investigation Final Report	Naval Exchange Gas Station	300	Spill, Investigation, Final Report, Naval Exchange, Gas Station, UST
1	0318	07.01		10/25/1990	Letter	USEPA Comments on the Final Plan of Action - Installation Restoration Study dated April 1989	Paul Marchessault U.S. EPA	Adrienne P. Townsel U.S. Navy, NorthDiv	Installation Restoration Final Plan of Action-EPA Comments		15	Installation Restoration, Final Plan
1	0819	04.01		12/18/1990	Letter	CTDEP Comments on the Final Plan of Action - Installation Restoration Study, April 1989	Paul Jameson CTDEP	Adrienne Townsel US Navy, NorthDiv	CTDEP Comments		2	CTDEP, Comments, Final Plan of Action, Installation Restoration Study
1	0010	01.02		1/1/1991	Report	UST Removal, Waste Oil Tank 5 Naval Submarine Base New London, Groton, Connecticut	Goldberg-Zoino & Associates, Inc.	U.S. Navy, NorthDiv	OT 5 - UST Removal	Tank Farm (Site 23)	70	Waste Oil, UST Removal, OT-5
1	0424	10.05		2/22/1991	Meeting Minutes	Minutes to Public Meeting on January 22, 1991. Attendees from NSB-LON, COMSUBGRU-TWO, NorthDiv, USEPA, Atlantic, Menzie-Cura	Paul Burgess Atlantic Environmental Services, Inc.	Cmdr N. Goddard NSB-NLON Adrienne Townsel US Navy ENG William Mansfield Public Works Dept, Groton, CT	Public Meeting Minutes (1-22-91)		5	Public Meeting, Minutes
1	0428	10.05		2/22/1991	Meeting Minutes	Minutes for TRC Meeting on January 9, 1991. Attendees from NSB-NLON, COMSUBGRU TWO, Atlantic, Town of Ledyard, CTDEP, Pepe & Hazard, USEPA, Alliance Technologies, LEAF	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (1-9-91)		3	TRC Meeting, Minutes
1	0320	07.01		3/6/1991	Letter	(Navy) Response to Review Comments for the Final Plan of Action for the Installation Restoration Program	Adrienne P. Townsel US Navy, NorthDiv	Paul Marchessault U.S. EPA	Installation Restoration Program Final Plan of Action-Navy Responses to EPA Review		9	Installation Restoration, Final Plan, Navy Responses, EPA
1	0011	01.02		4/1/1991	Report	Final Environmental Impact Statement Thames River Dredging Project	Maguire Group Inc.	U.S. Navy, NorthDiv	Thames River EIS for Dredging Project	Thames River	300	Thames River, Dredging, EIS
1	0422	10.05		4/11/1991	Meeting Minutes	Minutes to TRC Meeting on April 11, 1991. Attendees from NorthDiv, NSB-NLON, Consultant to City of Groton, LEAF, COMSUBGRU TWO, Pepe & Hazard, USEPA, Alliance Technologies, CTDEP, Atlantic, Menzie & Cura	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (4-11-91)		3	TRC Meeting, Minutes

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1	0683	03.01		4/11/1991	Letter	Draft of Navy Responses to CTDEP Comments on the Final Plan of Action dated April 1989	N/A	Paul Jameson CTDEP	Draft of Navy Responses to CTDEP Comments		3	Navy Responses, Draft, CTDEP, Comments, Final Plan of Action
1	0490	01.01		4/12/1991	Letter	PCBs discovered in OT-5, terminate abandonment	Nelson Goddard NSB-NLON	CTDEP	PCBs Discovered in OT-5, Terminate Abandonment	Oily Wastewater Tank (OT-5) (Site 9)	1	PCBs, OT-5, Terminate Abandonment
1	0425	10.05		4/24/1991	Meeting Minutes	Minutes from Homeowner Meeting on March 12, 1991. Attendees from NSB-NLON, CTDEP, Atlantic, 11 Homeowners	Paul Burgess Atlantic Environmental Services, Inc.	Adrienne Townsel U.S. Navy, NorthDiv William Mansfield Public Works Dept, Groton, CT	Homeowners Meeting Notes (3-12-91)		4	Homeowners Meeting, Minutes
1	0012	01.02		6/1/1991	Report	Installation and Sampling of Monitoring Wells at the Fuel Farm	ERM-Northeast	U.S. Navy, NorthDiv	Site Investigation of Tank Farm	Tank Farm (Site 23)	60	Tank Farm, Monitoring Wells, Investigation
1	0679	03.04		6/1/1991	Report	Draft Installation Restoration Study, Section 8: Summary and Conclusions	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Installation Restoration Study, Section 8		25	Installation, Restoration Study, Draft, Section 8, Summary, Conclusions
1	0615	04.03		8/1/1991	Report	Draft Report - Feasibility Study, Section 1: Preliminary Remedial Technologies	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report		20	Feasibility Study, Section 1, Preliminary Remedial Technologies, Draft Report
1	0616	03.04		8/1/1991	Report	Draft Report - Installation Restoration Study, Section 8: Summary and Conclusions	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report		30	Installation Restoration Study, Section 8, Summary, Conclusions, Draft Report
1	0675	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Section 1:Introduction, Section 2: Site Investigation, Section 3: Characteristics of Study Area	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report, Installation Restoration Study		1342	Draft Report, Installation, Restoration Study, Section 1-3
1	0676	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Appendix E: Human Health Risk Assessment Data, Exposure Point Calculations	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report, Installation Restoration Study		300	Draft Report, Installation, Restoration Study, Appendix E
1	0677	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Section 4: Nature and Extent of Contamination	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report, Installation Restoration Study		250	Draft Report, Installation, Restoration Study, Section 4
1	0678	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Section 5: Contaminant Fate and Transport, Section 6: Human Health Risk Assessment, Section 7: Ecological Risk Assessment	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Report, Installation Restoration Study		250	Draft Report, Installation, Restoration Study, Sections 5-7
1	0680	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Appendix F: Ecological Risk Assessment	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Installation Restoration Study, Appendix F		100	Installation, Restoration Study, Draft, Appendix F, Ecological RA
1	0682	03.04		8/1/1991	Report	Draft Report, Installation Restoration Study, Appendix A: Soil Gas Data, Appendix B: Test Boring Logs, etc., Appendix C: QA/QC Control Report, etc., Appendix D: Applicable, Relevant, and Appropriate Requirements	Atlantic Environmental	U.S. Navy, NorthDiv	Draft Report, Installation Restoration Study, Appendices A-D		250	Draft Report, Installation, Restoration Study, Apendix A-D
1	0687	01.02		8/1/1991	Letter	Surface Soil Sampling: Validated Analytical Results, Summary Data Table, Surface Soil Sample Logs, and Sample Location Map for May 22, 1992 Sampling at the RCRA Waste Storage Facility	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Adrienne Townsel U.S. Navy, NorthDiv	Surface Soil Sampling-Results, Tables, Logs, Maps		100	Surface Soil, Sampling, Validated Analytical Results, Summary Data Table, Surface Soil, Sample Logs, Sample Location, Map, RCRA, Waste Storage Facility
1	0013	01.04	267	8/8/1991	Report	U.S. EPA. Multi-media Inspection - Naval Submarine Base New London, Groton, Connecticut.	USEPA	U.S. Navy, NorthDiv	USEPA Multi-Media Inspection		125	USEPA, Multi-Media Inspection
1	0443	03.01		8/23/1991	Memo	Transmittal of the Remedial Investigation Report and Preliminary Remedial Technologies Report for comment	Adrienne Townsel U.S. Navy, NorthDiv	TRC Members	RI Report and Prelim. RT Report Transmittal		1	RI Report, RT Report, Transmittal
1	0594	03.01		9/23/1991	Letter	CTDEP's request for am extension on due date for written comments on the Remedial Investigation and Preliminary Remedial Technologies Report	Harold A. Bobowicz CTDEP	Adrienne Townsel U.S. Navy, NorthDiv	CTDEP Request for Extension of Comment Due Date		1	CTDEP, Request, Written Comments, Due Date, Extension, RI, Preliminary Remedial Technologies Report
1	0423	10.05		10/3/1991	Meeting Minutes	Minutes to TRC Meeting on September 19, 1991. Attendees from Menzie-Cura, Atlantic, Crystal Springs Lab, NorthDiv, CTDEP, Town of Waterford, Town of Groton, COMSUBGRU TWO REC, Town of Ledyard, USEPA, LEAF, Resident, Alliance Technologies, ESAT EPA I	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (9-19-91)		8	TRC Meeting, Minutes
1	0324	07.01		10/13/1991	Letter	Comments on the Draft Report for the Installation Restoration Study	Robert Fromer Gardner Ave, New London, CT	Adrienne Townsel U.S. Navy, NorthDiv	Installation Restoration Study Draft Report-London Comments		2	Installation Restoration Study, Town Comments
1	0338	03.01		10/16/1991	Letter	Town of Waterford Comments on the Remedial Investigation Report	Thomas V. Wagner Town of Waterford, CT	Adrienne P. Townsel U.S. Navy, NorthDiv	RI Report-Town of Waterford Comments		2	RI Report, Waterford Comments
1	0323	07.01		11/12/1991	Letter	(USEPA's) Review Comments of Draft RI Study	Paul Marchessault U.S. EPA	Adrienne P. Townsel U.S. Navy, NorthDiv	Draft RI Study-EPA Review of Comments		38	Draft RI Study, EPA Review

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1	0822	10.02	276	11/12/1991	Letter	Letter to Adrienne Townsel, Navy NorthDiv NAVFAC, from Paul Marchessault, U.S. EPA. Re: Comments on the Draft IR Report dated August 1991.	Paul Marchessault U.S. EPA	Adrienne Townsel U.S. Navy, NorthDiv	EPA Comments on Draft IR Report Dated August 1991		50	EPA Comments, Draft IR Report
1	0281	07.01		11/25/1991	Fax	Letter: (CTDEP) Comments on the "Installation Restoration Study - NSB-NLON August 1991 prepared by Atlantic Environmental Services	Paul Jameson CTDEP	Adrienne Townsel U.S. Navy, NorthDiv	Installation Restoration Study (NSB-NLON)-CTDEP Comments		25	Installation Restoration Study, State Comments
1	0337	01.01		11/25/1991	Fax	Letter: Comments on the Installation Restoration Study Dated August 1991 Prepared by Atlantic	Paul Jameson CTDEP	Adrienne P. Townsel U.S. Navy, NorthDiv	Installation Restoration Study-CTDEP Comments		5	Install/Restoration Study, CTDEP
1	0014	01.02		12/1/1991	Report	Environmental Services UST Removal - Waste Oil Tank No. 5	GZA GeoEnvironmental, Inc.	The EADs Group	UST Removal OT-5	Tank Farm (Site 23)	100	UST Removal, Tank Farm, OT-5
1	0277	09.01		12/6/1991	Letter	U.S. Fish and Wildlife Comments on the Draft Installation Restoration Study for NSB-NLON	Steven Mierzykowski U.S. Fish & Wildlife	Paul Marchessault U.S. EPA	Draft Installation Restoration Study for NSB-NLON-USFWS Comments		4	Installation Restoration Study, USFWS
1	0268	01.01		12/18/1991	Letter	Addendum No. 1 Plan of Action for Pier 33 and Berth 16. Reference 5090, Ser 1431/1423/AT	Paul Jameson CTDEP	Adrienne P. Townsel U.S. Navy, NorthDiv	Plan of Action Addendum No. 1 (Pier 33 and Berth 16)	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	2	Plan of Action, Addendum #1, Pier 33, Berth 15, Reference 5090
1	0686	10.02		12/18/1991	Letter	Town of Waterford Comments on the Work Plan for Pier 33 and Berth 16	Thomas V. Wagner Town of Waterford	Adrienne Townsel U.S. Navy, NorthDiv	Town of Waterford Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	Waterford, Comments, Work Plan, Pier 33, Berth 16
1	0278	07.01		12/19/1991	Letter	Review of Draft RI Study	Paul Marchessault U.S. EPA	Adrienne P. Townsel U.S. Navy, NorthDiv	Draft RI Study-EPA Review		1	RI Study Draft, EPA Review
2	0322	03.01		1/13/1992	Letter	(CTDEP's) Comments on the Draft Phase II Remedial Investigation Work Plans Dated November 1992	Paul Jameson CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II Remedial Invest. Work Plans-CTDEP Review		8	Phase II, Remedial Investigation Work Plans
2	0331	03.01		1/13/1992	Letter	(CTDEP) Comments on the Draft Phase II Remedial Investigation Work Plans Dated November 1992	Paul Jameson CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II Remedial Invest. Work Plans-CTDEP Comments		8	Phase II Remedial Invest., Work Plans
2	0419	10.05		1/13/1992	Meeting Minutes	Notes from Homeowners Meeting on January 8, 1992. Attendees were Mr. & Mrs. Mudgett, Mr. & Mrs. Vivavilo, P. Burgess, C. Menzie, W. Mansfield, A. Thursell, M. Leipert, Robert Jones, Cmd Stage	Paul Burgess Atlantic Environmental Services, Inc.	File	Homeowners Meeting Notes (1-8-92)		70	Homeowners Meeting, Notes
2	0407	10.05		2/1/1992	Letter	Mailing: Installation Restoration Program Technical Review Committee Meeting on 02/04/92	Oliver Barfield NSB-NLON	Deborah Stockdale U.S. Navy, NorthDiv	Technical Review Committee Meeting (02-04-92)		1	Tech. Review Committee
2	0623	01.02		2/1/1992	Report	Geophysical Investigations (1992)	Weston Geophysical	Atlantic Environmental Services, Inc.	Geophysical Investigations (1992)		100	Geophysical, Investigations
2	0684	01.05		2/14/1992	Letter	EPA Comments on the Plan of Action, Pier 33 and Berth 16, Installation Restoration Study	Carol Keating U.S. EPA	Adrienne Townsel U.S. Navy, NorthDiv	EPA Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	10	EPA, Comments, Plan of Action, Pier 33, Berth 16, Installation Restoration Study
2	0283	10.01		2/19/1992	Letter	(Town of Ledyard) Comments on Installation Restoration Program, Draft Community Relations Plan	William R. Haas Town of Ledyard, CT	Adrienne P. Townsel U.S. Navy, NorthDiv	Installation Rest. Prog. Comm. Rel. Plan-Ledyard Comments		1	Ledyard Comments
2	0685	10.05		2/26/1992	Meeting Minutes	Meeting Summary, Agenda, and Attendance list of February 13, 1992 Meeting with USEPA. Attendees from USEPA I, Alliance Technologies, EPA-Regional Council, Menzie-Cura, Atlantic Environmental, NSB-NLON, Lockheed/ESAT, US Fish & Wildlife, NCAA	Barry Giroux Atlantic Environmental	Adrienne Townsel U.S. Navy, NorthDiv	Meeting Summary, Agenda, and Attendance List of February 13, 1992 Meeting		6	Meeting Summary, Agenda, Attendance List, February 13, 1992
2	0282	10.01		2/28/1992	Letter	Town of Groton Requests Update of Key Contacts on the Draft Community Relations Plan	Deborah G. Jones Town of Groton, CT	Adrienne P. Townsel U.S. Navy, NorthDiv	Update of Key Contacts-Town of Groton Request		2	Key Contacts, Groton Requests
2	0015	01.02	276	3/1/1992	Report	Site Analysis of Naval Submarine Base New London, Groton, Connecticut. TS-PIC-91129	U.S. EPA Environmental Monitoring Systems Laboratory	U.S. Navy, NorthDiv	Site Analysis		55	Site Analysis, TS-PIC-91129
2	0509	01.01		3/5/1992	Fax	Letter: EPA Comments on the September 1989 Report entitled Hydrogeologic Investigation: UST OT-4, OT-7, OT-8, OT-9, and 54-H, NLON prepared by Fuss & O'Neill	Carol Keating U.S. EPA	Adrienne Townsel US Navy	Hydrogeologic Investigation Report-EPA Comments	Tank Farm, Lower Subase	2	Hydrogeologic Investigation Report, EPA, Comments
1	0269	01.01		3/14/1992	Responses (no letter)	Navy Responses to the USEPA's Comments (February 14, 1992) on Draft "Plan of Action - Pier 33 and Berth 16 - IR Study; August 1991, Revised October 1991	Atlantic Environmental Services, Inc.	USEPA	Draft Plan of Action-Navy Responses to EPA Comments (Pier 33/Berth 16)	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	11	Draft Plan of Action, Pier 33, Berth 16, Navy Responses
2	0279	07.01		3/20/1992	Memo	Navy (Atlantic) Responses to U.S. EPA November 12, 1991 comments on Draft IR Report dated August 1991.	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	Draft RI Study-Navy Responses to EPA Comments		47	RI Study Draft, Navy Responses, EPA Comments
2	0298	01.01		3/24/1992	Letter	Proposed Locations for the Collection of Background Soil Samples for Inorganic Constituents	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Proposed Locations		1	Proposed Soil Sample Locations
2	0280	07.01		3/26/1992	Memo	Draft RI Report, Responses to U.S. EPA's Risk Assessment Comments, Responses to CTDEP's Comments, Responses to NOAA's Comments, Responses to Town of Waterford's Comments Responses to Mr. Fromer's Comments - NSB-NLON	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	Draft RI Report-Atlantic Environmental Responses to Comments		35	Draft RI Report, Atlantic Environmental, Responses

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2	0284	10.01		3/30/1992	Letter	USEPA Comments on the Installation Restoration Program Community Relations Plan	Carol Keating U.S. EPA	Adrienne P. Townsel U.S. Navy, NorthDiv	Installation Rest. Prog. Comm. Rel. Plan-EPA Comments		3	EPA Comments-Comm. Rel. Plan
2	0016	01.02	NA	4/1/1992	Report	Technical Report - Sampling and Testing of Material proposed from Dredging and Ocean Disposal Thames River	Maguire Group Inc.	U.S. Navy, NorthDiv	Technical Report	Thames River	375	Sampling, Testing, Dredging, Ocean Disposal, Thames River
2	0609	01.02		4/1/1992	Report	Preliminary Draft Supplemental Draft Environmental Impact Statement, Thames River Dredging	Maguire Group	U.S. Navy, NorthDiv	Preliminary Draft, Supplemental Draft EIS, Thames River Dredging	Thames River	500	Preliminary Draft, Supplemental Draft, EIS, Thames River, Dredging
2	0319	01.01		4/20/1992	Letter	USEPA's Comments on the document "Geophysical Investigations - NSB-NLON, Groton, CT"	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	"Geophysical Investigations" Document-EPA Comments		11	Geophpysical Investigations
2	0275	07.01		5/20/1992	Letter	EPA's Response to Navy's Responses to EPA's Comments on the Draft RI Report, August 1991	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft RI Report-EPA Responses to Navy's Responses		12	Draft RI, EPA Responses
2	0409	10.05		5/28/1992	Meeting Minutes	Minutes of TRC Meeting on March 31, 1992 RE: Installation Restoration Study. Attendees from Atlantic Environmental, Menzie-Cura & Assoc., CTDEP, USEPA I, Alliance Technologies, Town of Groton, City of Groton, NorthDiv, Resident (Town of Ledyard), NSB-NLON, Sub Group 2, LEAF,	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (03-31-92)		4	TRC, Meeting Minutes, 03-91-92
2	0429	10.05		5/28/1992	Meeting Minutes	Minutes for TRC Meeting on March 31, 1992. Attendees from Atlantic, Menzie-Cura, CTDEP, USEPA, Alliance Technologies, Town of Groton, City of Groton, NorthDiv, Resident (Town of Ledyard), NSB-NLON,	Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC Meeting Minutes (3-31-92)		4	TRC Meeting, Minutes
2	0481	01.01		7/1/1992	Letter	Recommendation to Prepare a Preliminary Assessment on Past Releases of Radionclides	Richard Guida NAVSEA, DC	CO, NAVFACENGCOM	Recommendation to Prepare a Prelim. Assessment on Past Releases of Radionclides		2	Preliminary Assessment, Past Releases, Radionclides
2	0660	02.02		7/17/1992	Report	UST Removal -Waste Oil Tank No. 5, Specifications	The EADS Group	U.S. Navy, NorthDiv	UST Removal, Specifications	Oily Wastewater Tank (OT-5) (Site 9)	200	UST, Removal, Waste Oil, Tank #5, Specifications
2	0607	10.01		7/30/1992	Memo	Transmittal for (1.) Navy's Responses to TRC Committee Comments on the Draft Plan of Action for Addendum 1, Pier 33 and Berth 16, August 1991 and the Revised Plan of Action, (2.) Final Plan of Action for Addendum No. 1-Vols. 1,2,3, July 1992, (3.) Request for comments on Former Incinerator Site Section	F.A. La Greca U.S. Navy, NorthDiv	CO, NSB-NLON Carol Keating U.S. EPA Paul Jameson CTDEP William Mansfield NSB-NLON	Transmittal	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	Navy, Responses, TRC Committee Comments, Draft Plan of Action, Addendum 1, Pier 33, Berth 16, Revised Plan of Action, Final Plan of Action, Addendum 1, Volumes 1,2, 3, Former Incinerator Site Section, Comments, Request
2	0017	03.04	NA	8/1/1992	Report	Phase I Remedial Investigation Naval Submarine Base - New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Phase I RI	Sites 1, 2, 3, 4, 6, 7, 8, 10, 11, 13, 14, 15, 17	2000	Phase I Remedial Investigation
2	0018	01.02		8/1/1992	Report	Final Remediation of Contaminated Soil and Ground Water NEX and Dolphin Mart Service Station	ERM	U.S. Navy, NorthDiv	Final Remediation - NEX and Dolphin Mart	NEX Gas Station, Dolphin Mart	400	Final Remediation, NEX, Dolphin Mart
2	0629	04.03		8/1/1992	Report	Feasibility Study, Preliminary Remedial Technologies	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Feasibility Study, Prelim. Remedial Technologies		25	Feasibility Study, Preliminary Remedial Technologies
2	0566	08.01		8/11/1992	Letter	Health Consultation Document and Notification of Public Meeting	Robert Williams ATSDR	Robert Jones NSB-NLON	Health Consultation Document and Notification of Public Meeting		13	Health Consultation, Document, Public Meeting, Notification
2	0658	03.02		9/1/1992	Report	Fuel Farm UST Remedial Investigation Draft Work Plan	ERM	U.S. Navy, NorthDiv	Remedial Investigation Draft Work Plan	Tank Farm (Site 23)	125	Work Plan, Draft, Remedial Investigation, Fuel Farm, UST
2	0559	03.01		9/4/1992	Document	Lab Results: House Well Water Tests	T.F. McCommas Laboratory Resources, Inc	U.S. Navy	House Well Water Tests-Lab Results		4	Well Water Tests, House, Lab Results
2	0564	03.01		9/23/1992	Letter	Transmittal of Letters to Homeowners on 1st and 3rd Round of Sampling	Robert Jones NSB-NLON	Paul Jameson CTDEP	1st and 3rd Round of Sampling-Letters to Homeowners		1	Sampling, 1st & 3rd Round, Homeowners, Transmittal
2	0565	03.01		9/23/1992	Letter	Transmittal of Residential Well Monitoring Letters and Summary Sheet of Results	Robert Jones NSB-NLON	Herbert Pearson Town of Ledyard Health Dept	Res. Well Monitoring and Sommary of Results-Letter Transmittal		1	Residential Well Monitoring, Summary Sheet, Results, Transmittal
2	0019	01.02	NA	10/1/1992	Report	Draft Field Sampling Plan - Investigation of Boron in Groundwater & Establishment of Background Conc. in Inorganics in Soil	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Field Sampling Plan		20	Boron, Groundwater, Background, Inorganics, Soil
2	0289	10.06		10/1/1992	Fact Sheet	Information Update: Installation Restoration Program, October 1992	U.S. Navy	Mailing List	Installation Restoration Program-10/92 Information Update		12	Info. Update, October 1992
2	0628	03.01		10/1/1992	Report	Draft Plan of Action, Investigation of Boron in Groundwater and Establishment of Background Concentrations of Inorganics in Soil	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Plan of Action		600	Plan of Action, Boron, Investigation, Groundwater, Background Concentrations, Inorganics, Soil

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2	0450	10.01		10/6/1992	Memo	Transmittal of Documents to be included in the Public Repository	Robert F. Jones NSB-NLON	Bill Library, Town of Groton Library, NSB-NLON Library	Document Transmittal (Documents to be included in the Public Repository)		1	Transmittal, Documents, Public Repository
2	0270	01.01		10/8/1992	Letter	USEPA Comments on the Draft Final Plan of Action for Berth 16/Former Incinerator and Pier 33 (July 1992)	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Plan of Action-EPA Comments (Pier 33/Berth 16)	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	3	Draft Plan of Action, Pier 33, Berth 16, EPA Comments
2	0317	03.01		10/16/1992	Letter	(USEPA's) Review of US Navy Responses to USEPA Comments on the Draft Remedial Investigation (RI) Report and Risk Assessment	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft RI Report and RA-EPA Review of Navy Responses to EPA Comments		5	Draft RI, RA, EPA Review, Navy Responses
2	0508	01.01		10/21/1992	Letter	Transmittal of the Draft Work Plan for the Fuel Farm UST Remedial Investigation	Brian Helland U.S. Navy, NorthDiv	Carol Keating U.S. EPA Scott Deshely CTDEP	Draft UST RI Work Plan Transmittal	Tank Farm (Site 23)	1	UST RI, Draft Work Plan, Transmittal
2	0562	11.01		10/23/1992	Letter	New Standards for Lead in Public Drinking Water and resampling of wells	M.G. Riegel NSB-NLON	R. Gobeli-Groton B. Jolicoeur-Gales Ferry T. Vivirito-Gales Ferry D. Rowley-Groton	Lead-New Standards in Public Drinking Water, Resampling		9	Lead, New Standards, Public Drinking Water, Resampling
2	0563	07.05		10/23/1992	Letter	High Sodium in Drinking Water Notification Letter	M.G. Riegel NSB-NLON	B.Pearson-Groton M. Adams-Gales Ferry R. Nikonwich-Gales Ferry R.Gobeli-Groton	Notification of High Sodium in Drinking Water (Letter)		4	High Sodium, Drinking Water, Notification, Letter
2	0325	01.01		11/9/1992	Fax	Letter: Proposed Locations for the Collection of Background Soil Samples for Inorganic Constituents	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Proposed Locations-Soil Samples (for Inorganics)		2	Soil Samples, Prop Locations
2	0561	01.01		11/9/1992	Letter	EPA's Comments on the Proposed locations for the collection of background soil samples for inorganics	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	EPA Comments		2	Background Soil Samples, Inorganics, Collection, Proposed Locations, EPA, Comments
2	0560	10.01		11/13/1992	Letter	Well Testing Results	Oliver Barfield NSB-NLON	28 Residents	Testing Results		28	Well, Testing Results
2	0553	03.01		11/20/1992	Letter	EPA Comments on the Draft Plan of Action - Investigation of Boron in Groundwater	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Plan of Action-EPA Comments		4	Draft Plan of Action, EPA Comments, Boron, Groundwater
2	0558	03.01		11/25/1992	Memo	Boron Analysis Assessment by Atlantic Chemist	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	Boron Analysis Assessment-Atlantic Chemist		12	Boron, Analysis Assessment, Atlantic Chemist
2	0821	03.01		11/30/1992	Report	Navy Responses to USEPA Comments - geophysical Investigation	Atlantic Environmental	N/A	Navy Responses to EPA Comments		100	Navy Responses, EPA Comments, Geophysical Investigation
2	0504	01.01		12/4/1992	Letter	EPA's Comments on the Draft Work Plan for the Fuel Farm UST Remedial Investigation dated September 1992	Andrew Miniuks USEPA I	Deborah Stockdale U.S. Navy, NorthDiv	Draft UST RI Work Plan-EPA Comments	Tank Farm (Site 23)	11	UST RI, Draft Work Plan, EPA, Comments
2	0439	03.01		12/11/1992	Letter	(Town of Waterford) Comments on Draft Phase II Remedial Investigation	Thomas V. Wagner Town of Waterford	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II RI-Town of Waterford Comments		2	Town of Waterford, Comments, Draft Phase II RI
2	0440	10.01		12/12/1992	Letter	USEPA I Suggestions and comments on the December 2, 1992 TRC Meeting	Jim Sebastian USEPA I	Oliver Barfield NSB-NLON	EPA Suggestions/Comments (12-2-92 TRC Meeting)		2	USEPA, TRC Meeting, Comments
2	0271	01.01		12/14/1992	Letter	Pier 33 and Berth 16/Former Incinerator Work Plan	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Andrew Miniuks U.S. EPA	Work Plan-Pier 33/Berth 16 (Former Incinerator)	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	3	Work Plan, Pier 33, Berth 16, Former Incinerator
2	0276	03.01		12/14/1992	Letter	Atlantic Response to EPA Comments of October 16, 1992 regarding the Phase I RI	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Andrew Miniuks U.S. EPA	Phase I RI-Atlantic Envtl. Responses to EPA Comments		2	Phase I RI, Atlantic Envtl. Responses, EPA Comments
2	0554	03.01		12/14/1992	Letter	Atlantic Response to EPA Comments (dated November 9, 1992) on the Boron/Background Investigation Work Plan	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Andrew Miniuks U.S. EPA	Atlantic Response to EPA Comments-Boron/Groundwater		1	Atlantic Responses, EPA Comments, Boron, Groundwater
2	0555	03.01		12/14/1992	Letter	Analysis of Boron	Edward Lawler NET-Cambridge	Barry Giroux Atlantic Environmental Services, Inc.	Boron Analysis		3	Boron, Analysis
2	0567	08.01		12/21/1992	Letter	ATSDR Public Health Assessment-Public Comment Release dated December 21, 1992	Max M. Howie, Jr. ATSDR	Mark Leipert U.S. Navy, NorthDiv Rick Adams NSB-NLON Bill Mansfield NSB-NLON	ATSDR Public Health Assessment-Public Comment Release		3	ATSDR, Public Health, Assessment, Public Comment, Release
2	0406	02.01		12/23/1992	Letter	Removal Action Memorandum for Lead Contaminated Soils at Building 31	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Removal Action Memo-Lead (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	Removal Action Memo, Lead, Building 31

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3	0335	03.01		1/8/1993	Fax	Letter: EPA's Comments on the Phase II Remedial Investigation	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Phase II RI-EPA Comments		41	Phase II RI, EPA Comments
3	0568	03.01		1/8/1993	Letter	EPA's Comments on the Phase II Remedial Investigation	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Phase II RI-EPA Comments		42	Phase II RI, EPA, Comments
3	0569	08.01		1/13/1993	Letter	CTDEP Comments on the Draft Phase II Remedial Investigation Work Plans dated November 1992	Paul Jameson CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II RI Work Plans-CTDEP Comments		8	Draft Phase II RI, Work Plans, CTDEP, Comments
3	0340	08.01		1/22/1993	Memo	Medical Review of Installation Restoration Program Documents	CO, Navy Environmental Health Center W.P. Thomas U.S. Navy VA	CO US Navy NorthDiv	Installation Restoration Program Documents-Medical Review		22	Installation Restoration, Program Documents, Medical Review
3	0507	01.01		1/25/1993	Letter	Response to EPA's Comments on the Draft Work Plan Fuel Farm UST Remedial Investigation dated September 1992	Deborah Stockdale U.S. Navy, NorthDiv	Andrew Miniuks U.S. EPA	Draft UST RI Work Plan-Navy Responses to EPA Comments	Tank Farm (Site 23)	6	UST RI, Draft Work Plan, Navy Responses, EPA
3	0414	10.05		1/26/1993	Meeting Minutes	Minutes of TRC and Public Meeting on December 2, 1992. Attendees from Uncas Health District, Town of Waterford, Atlantic, Menzie-Cura & Assoc., CTDEP, City of Groton, NorthDiv, NSB-NLON, CINCLANTFLT, Sub Group 2, LEAF, Town of Ledyard, USEPA I, Town of Groton, Ledyard Resident, Groton, Resident	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (12-2-92)		10	TRC Meeting, Public Meeting, Minutes
3	0430	10.05		1/26/1993	Meeting Minutes	Minutes for TRC and Public Meeting on December 2, 1992. Attendees from Uncas Health District, Town of Waterford, Atlantic, Menzie-Cura, CTDEP, City of Groton, NorthDiv, NSB-NLON, CINCLANTFLT, LEAF, Town of Ledyard, USEPA, Town of Groton, Ledyard Resident, Groton Resident	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (12-2-92)		10	TRC Meeting, Public Meeting, Minutes
3	0551	03.01		1/26/1993	Letter	Atlantic Response to EPA Comments Regarding Draft Plan of Action October 1992	Barry Giroux and Paul Burgess Atlantic Environmental	Andrew Miniuks U.S. EPA	Draft Plan of Action-Atlantic Response to EPA Comments		6	Plan of Action, Draft, Atlantic Response
3	0405	02.01		1/28/1993	Letter	Time Critical Removal Action at Building 31	Deborah Stockdale U.S. Navy, NorthDiv	Andrew Miniuks U.S. EPA	Time Critical Removal Action (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	3	Time Critical Removal Action, Building 31
3	0272	01.01		1/29/1993	Letter	(USEPA's) Pier 33 and Berth 16/Former Incinerator Work Plan and Response to Comments (December 14, 1992)	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Pier 33/Berth 16 Work Plan-EPA Responses to Navy Responses	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	Pier 33, Berth 16, Work Plan, EPA Responses, Navy Responses
3	0020		112	2/1/1993	Report	Abbreviated Field Sampling Plan - Building 31, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Abbreviated FSP	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	350	Building 31, Lower Subase, Field Sampling Plan
3	0441	10.01		2/1/1993	Fax	Letter: Navy Response to New London Resident's Concerns	Oliver Barfield NSB-NLON	Bart Pearson Resident, Groton	Navy Response to Resident's Concerns (New London)		2	Navy, Responses, Resident's Concerns
3	0652	01.05		2/1/1993	Report	Final Addendum No. 1, Plan of Action Pier 33 and Berth 16/Former Incinerator	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Final Addendum #1	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	40	Addendum 1, Final, Plan of Action, Pier 33, Berth 16, Former Incinerator
3	0285	08.01		2/3/1993	Letter	Public Health Assessment-Public Comment Release for NSB-NLON, Groton/Ledyard, CT CERCLIS No. CTD980906515, dated December 21, 1992	Paul Jameson CTDEP	Lydia Ogden Askew ATSDR	NSB-NLON Public Comment Release-Public Health Assessment		29	Pub. Health Assess., Public Comment Release
3	0442	10.02		2/8/1993	Fax	Letter: New London Resident's Comments on February 4, 1993 TRC Meeting	Bart Pearson Resident, Groton	Oliver Barfield NSB-NLON	New London Resident's Comments (2-4-93 TRC Meeting)		3	TRC Meeting, Comments, Resident's
3	0286	08.01		2/9/1993	Letter	Navy Comments on the Draft Public Health Assessment dated December 21, 1992 for NSB-NLON	Oliver Barfield US Navy Groton, CT	Robert Williams Agency for Toxic Substances & Disease Registry	Draft Public Health Assessment-Navy Comments		24	Public Health Assessment, Navy Comments
3	0556	01.01		2/10/1993	Memo	Change to Proposed Background Sample Locations	Deborah Stockdale U.S. Navy, NorthDiv	Distribution	Proposed Background Sample Locatioons Changes		3	Background Sample Locations, Proposed, Changes
3	0332	03.01		2/11/1993	Letter	Navy Response to CTDEP Comments of January 13, 1993 Regarding the Draft Phase II Remedial Investigation Dated November 1992	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Paul Jameson CTDEP	Draft Phase II Remedial Invest. Work Plans-Navy Responses to CTDEP Comments		5	Draft Phase II Remedial Invest., Work Plans, Navy Responses, CTDEP
3	0334	03.01		2/11/1993	Letter	Navy Response to USEPA Comments of January 8, 1993 Regarding the Draft Phase II Remedial Investigation Dated November 1992	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Andrew Miniuks U.S. EPA	Draft Phase II RI-Navy Responses to EPA Comments		30	Phase II RI, Navy Responses, EPA Comments
3	0557	01.01		2/16/1993	Letter	Town of Ledyard Response to Navy letter dated February 10, 1993 regarding change in proposed background soil sample locations	William Haase Town of Ledyard	Deborah Stockdale U.S. Navy, NorthDiv	Ledyard Response to Proposed Background Soil Sample Locations		1	Ledyard, Response, Proposed Background Soil Sample Locations, Navy Letter
3	0287	08.01		2/17/1993	Letter	USEPA Comments on the Public Health Assessment dated December 21, 1992 for NSB-NLON	Andrew Miniuks U.S. EPA	Carol Diamond-Hossom Agency of Toxic Substances & Disease Registry	Public Health Assessment-EPA Comments		7	Public Health Assessment, EPA Comments

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3	0413	10.05		2/22/1993	Meeting Minutes	Minutes of TRC and Public Meeting on February 4, 1993. Attendees from Town of Waterford, Atlantic, Menzie-Cura & Assoc., CTDEP, NorthDiv, NSB-NLON, Sub Group 2, LEAF, Town of Ledyard, Town of Groton, USEPATA	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (2-4-93)		16	TRC Meeting, Public Meeting, Minutes
3	0552	03.01		2/23/1993	Letter	EPA Review of Draft Plan of Action - Investigation of Boron in Groundwater and Navy Response to comments	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Plan of Action-EPA Reviw		2	Draft Plan of Action, EPA Review, Boron, Groundwater, Navy Responses
3	0341	03.01		3/3/1993	Letter	Navy Response to Town of Waterford Comments Dated December 11, 1992 Regarding the Draft Phase II RI Work Plan Dated November 1992	Barry Giroux Atlantic Environmental Services, Inc.	Thomas V. Wagner Town of Waterford, CT	Draft Phase II RI Work Plan-Navy Responses to Waterford Comments		2	Phase II RI, Work Plan, Navy Responses, Waterford
3	0570	08.01		3/3/1993	Letter	Atlantic Response to the Town of Waterford's comments dated December 11, 1992 for the Draft Phase II Remedial Investigation Work Plan	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	Thomas V. Wagner Town of Waterford	Atlantic Response to Waterford Comments		2	Atlantic, Response, Waterford, Comments, Draft Phase II RI, Work Plan
3	0404	02.01		3/5/1993	Letter	USEPA's Comments on the Proposed Sampling Plan - Time Critical Removal Action at Building 31	Andrew Miniuks U.S. EPA	Deborah Stockdale US Navy NorthDiv	EPA Comments-Sampling Plan for Time Critical Removal Action (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	16	Sampling Plan, Time Critical Removal Action, Building 31
3	0506	01.01		3/9/1993	Letter	CTDEP's comments on the Fuel Farm UST Remedial Investigation Draft Work Plan	Scott Deshefy CTDEP	Brian Helland U.S. Navy, NorthDiv	Draft UST RI Work Plan-CTDEP Comments	Tank Farm (Site 23)	1	UST RI, Draft Work Plan, CTDEP, Comments
3	0336	03.01		3/10/1993	Letter	USEPA's Evaluation of the Navy's Response to EPA Comments on the Draft Phase II Remedial Investigation Dated November 1992	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II RI-EPA's Eval. Of Navy Responses to EPA Comments		26	Phase II RI, EPA Evaluation, Navy Responses
3	0505	01.01		3/10/1993	Letter	EPA's Comments on the Draft Work Plan for the Fuel Farm UST Remedial Investigation dated September 1992	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft UST RI Work Plan-EPA Comments	Tank Farm (Site 23)	2	UST RI, Draft Work Plan, EPA, Comments
3	0330	03.01		3/14/1993	Memo	Memorandum, Draft Phase II Remedial Investigation; Work Plan; Field Sampling; QA/QC plan; and Health and Safety Plan	Robert Fromer Gardner Ave, New London, CT	Paul Burgess Atlantic Environmental	Memo		6	Draft Phase II Remedial Invest., Work Plan, QA/QC
3	0273	01.01		3/22/1993	Letter	EPA Comments on the Quality Assurance Project Plan Navy Pier 33/Berth 16 Residential Wells and Background Soil Investigation, dated March 1993	Andrew Miniuks U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	QA Project Plan-EPA Comments (Pier 33/Berth 16 Residential Wells and Background Soil Investigation)	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	3	QA Project Plan, EPA Comments, Pier 33, Berth 16
3	0021	06.02		3/23/1993	Report	Proposed Interim Remedial Actions	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Proposed IRA	Area A Landfill, Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3), Defense Reutilization and Marketing Office (DRMO) (Site 6), Lower Subase, Spent Acid Storage and Disposal Area (SASDA) (Site 15)	30	Interim Remedial Actions
3	0343	03.01		3/24/1993	Letter	(CTDEP) Comments on the Supplemental Step I Investigations Proposed for the Construction Battalion Unit (CBU) Drum Storage Area and the Over Bank Disposal Area NorthEast (OBDANE)	Paul Jameson CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	Supplemental Step I Investigations-CTDEP Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)/Over Bank Disposal Area Northeast (OBDANE) (Site 14)	2	Supplamental Step I Investigations, CBU, Drum Storage Area, OBDANE, CTDEP Comments
3	0571	03.01		3/24/1993	Letter	CTDEP Comments on the Supplemental Step I Investigations proposed for the Construction Battalion Unit Drum Storage Area and the Over Bank Disposal Area Northeast	Paul Jameson CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	CTDEP Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14)	2	CTDEP, Comments, Supplemental Step I Investigations, Construction Battalion Unit, Drum Storage Area, Over Bank Disposal Area Northeast
3	0389	10.06		4/1/1993	Fact Sheet	Information Update: Installation Restoration Program, Proposed Removal Action at Building 31	N/A	N/A	Information Update	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Installation Restoration Program, Building 31, Removal Action
3	0626	02.06	112	4/1/1993	Report	Action Memorandum for Building 31	HNUS	U.S. Navy, NorthDiv	Action Memo	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	250	Action Memorandum, Building 31
3	0408	10.05		4/9/1993	Letter	Mailing: Installation Restoration Program Technical Review Committee Meeting on 05/05/93	Suzanne Berkman NSB-NLON	Deborah Stockdale U.S. Navy, NorthDiv	Technical Review Committee Meeting (05-05-93)		1	Tech. Review Committee
3	0688	02.01	112	4/9/1993	Letter	Transmittal of Draft Action Memorandum for Building 31	Willis C. Isner HNUS	Deborah Stockdale U.S. Navy, NorthDiv	Transmittal of Draft Action Memo	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Action Memorandum, Draft, Transmittal, Building 31
3	0344	03.01		4/15/1993	Letter	(USEPA's Comments on) Amendment to the Draft Phase II Remedial Investigation (RI) Work Plan - Supplemental Step I Investigations - Construction Battalion Unit (CBU) Drum Storage Area and Over Bank Disposal Area Northeast (OBDANE)	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Phase II RI work Plan Amendment, Supplemental Step I Investigations-EPA Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)/Over Bank Disposal Area Northeast (OBDANE) (Site 14)	6	Phase II RI, Work Plan Amendment, Supplemental Step I Investigations, EPA Comments, CBU, Drum Storage Area, OBDANE
3	0572	03.01		4/15/1993	Letter	EPA Comments on the Amendment to the Draft Phase II Remedial Investigation Work Plan	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Phase II RI Work Plan Amendment-EPA Comments		6	Draft Phase II RI, Work Plan, Amendment, EPA, Comments

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3	0403	02.01		4/16/1993	Letter	CTDEP Comments on the Action Memorandum for Building 31	Adam D. Sullivan CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	CTDEP Comments-Draft Action Memo, Building 31	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	4	Draft Action Memo, Building 31, CTDEP
3	0402	02.01		4/20/1993	Letter	USEPA's Comments on the Draft Action Memorandum for Building 31	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	EPA Comments-Draft Action Memo, Building 31	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	8	Draft Action Memo, Building 31, EPA
3	0401	02.01		4/21/1993	Letter	USEPA's Additions to their Comments on the Draft Action Memorandum for Building 31 dated April 20, 1993 - specifically Air Monitoring issues	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	EPA Additions to 05-06-93 Comments	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	9	Action Memo, Air Monitoring, Building 31, EPA
3	0689	02.01		4/26/1993	Fax	Response to Navy, EPA, and CTDEP Comments on Action Memorandum for Building 31	Willis C. Isner HNUS	Deborah Stockdale U.S. Navy, NorthDiv	Response to Comments	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	17	Response, Navy, EPA, CTDEP, Comments, Action Memorandum, Building 31
3	0274	03.01		4/29/1993	Letter	Phase I Data Validation	Barry Giroux Atlantic Environmental Services, Inc.	Carol Keating U.S. EPA	Phase I Data Validation		2	Data Validation, Phase I
3	0022	06.02		5/1/1993	Report	Briefing Document, Proposed Interim Remedial Actions. Naval Submarine Base - New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Proposed IRA	Area A Landfill, Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3), Defense Reutilization and Marketing Office (DRMO) (Site 6), Spent Acid Storage and Disposal Area (SASDA) (Site 15)	85	Interim Remedial Actions
3	0023	03.03		5/1/1993	Report	Field Sampling Plan Phase II Remedial Investigation - Installation Restoration Study (2 copies)	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Phase II RI Field Sampling Plan	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14), Rubble Fill Area at Bunker A-86 (Site 4), Torpedo Shops (Site 7), Goss Cove Landfill (Site 8), Spent Acid Storage and Disposal Area (SASDA) (Site 15), Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A, Lower Subase	400	Phase II Remedial Investigation, Field Sampling Plan
3	0024	03.03		5/1/1993	Report	Health & Safety Plan Phase II Remedial Investigation - Installation Restoration Study	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Phase II RI Health and Safety Plan	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14), Rubble Fill Area at Bunker A-86 (Site 4), Torpedo Shops (Site 7), Goss Cove Landfill (Site 8), Spent Acid Storage and Disposal Area (SASDA) (Site 15), Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A, Lower Subase	90	Phase II Remedial Investigation, Health and Safety Plan
3	0025	03.03		5/1/1993	Report	Quality Assurance/Quality Control & Data Management Plan Phase II Remedial Investigation - IR Study	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Phase II RI QA/QC Data Management Plan	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14), Rubble Fill Area at Bunker A-86 (Site 4), Torpedo Shops (Site 7), Goss Cove Landfill (Site 8), Spent Acid Storage and Disposal Area (SASDA) (Site 15), Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A, Lower Subase	250	Phase II Remedial Investigation, QA/QC Data Management Plan
3	0026	03.03		5/1/1993	Report	Work Plan Phase II Remedial Investigation - Installation Restoration Study	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Phase II RI Work Plan	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14), Rubble Fill Area at Bunker A-86 (Site 4), Torpedo Shops (Site 7), Goss Cove Landfill (Site 8), Spent Acid Storage and Disposal Area (SASDA) (Site 15), Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A, Lower Subase	1500	Phase II Remedial Investigation, Work Plan
3	0027	02.06	112	5/1/1993	Report	Action Memorandum for Building 31, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Building 31 - Action Memorandum	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	250	Building 31, Lower Subase, Action Memorandum
3	0028	06.04	112	5/1/1993	Report	Remedial Design for the Building 31, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Building 31 - Remedial Design	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	140	Building 31, Lower Subase, Remedial Design

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3	0599	01.01		5/4/1993	Letter	Documenting that the Navy Proposed to install two Bedrock Wells at Pier 33 and Berth 16 Incinerator	Deborah Stockdale U.S. Navy, NorthDiv	Carol Keating U.S. EPA	Documentation of Navy Proposal	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	Documenting, Navy Proposal, Bedrock Wells, Pier 33, Berth 16, Incinerator
3	0333	03.01		5/5/1993	Letter	USEPA Comments on the Draft Final Phase II Remedial Investigation (RI) Work Plans	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	Draft Final Phase II RI Work Plans-EPA Comments		11	Phase II RI Work Plans, Comments
3	0342	03.01		5/6/1993	Letter	Navy Response to CTDEP (Adam Sullivan) Comments Dated March 24, 1993 Regarding the CBU and OBDANE Sections dated March 1, 1993 of the Phase II Remedial	Barry Giroux Atlantic Environmental Services, Inc.	Adam Sullivan CTDEP	Phase II RI (CBU and OBDANE Sections)-Navy Responses to CTDEP Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)/Over Bank Disposal Area Northeast (OBDANE) (Site 14)	3	Phase II RI, CBU, OBDANE, Navy Responses, CTDEP Comments
3	0345	03.01		5/6/1993	Letter	Navy Responses to USEPA Comments dated April 15, 1993 Regarding the CBU and OBDANE Sections dated March 1, 1993 of the Phase II Remedial Investigation Work Plan and Field Sampling Plan	Barry Giroux Atlantic Environmental Services, Inc.	Carol Keating U.S. EPA	Phase II RI Work Plan And Field Sampling Plan (CBU and OBDANE)-Navy Responses to EPA Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)/Over Bank Disposal Area Northeast (OBDANE) (Site 14)	7	Phase II RI, Work Plan, Field Sampling Plan, CBU, OBDANE, Navy Responses, EPA Comments
3	0400	02.01		5/6/1993	Letter	USEPA Comments on the Draft Action Memorandum, Proposed Air Monitoring Text	Carol Keating U.S. EPA	Deborah Stockdale U.S. Navy, NorthDiv	EPA Comments-Draft Action Memo, Proposed Air Monitoring		2	Action Memo, Air Monitoring, EPA
3	0573	08.01		5/6/1993	Letter	Atlantic Responses to CTDEP's comments dated March 24, 1993 for the Construction Battalion Unit and the Over Bank Disposal Area North East sections of the Phase II Remedial Investigation Work Plan and Field Sampling Plan	Barry Giroux Atlantic Environmental Services, Inc.	Adam Sullivan CTDEP	Atlantic Responses to CTDEP Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14)	3	Atlantic, Responses, CTDEP, Comments, Phase II RI, Work Plan, Field Sampling Plan, Construction Battalion Unit, Over Bank Disposal Area Northeast
3	0574	08.01		5/6/1993	Letter	Atlantic Responses to EPA's comments dated March 1, 1993 for the Construction Battalion Unit and the Over Bank Disposal Area North East sections of the Phase II Remedial Investigation Work Plan and Field Sampling Plan	Barry Giroux Atlantic Environmental Services, Inc.	Carol Keating U.S. EPA	Atlantic Responses to EPA Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14)	7	Atlantic, Responses, EPA, Comments, Phase II RI, Work Plan, Field Sampling Plan, Construction Battalion Unit, Over Bank Disposal Area Northeast
3	0393	02.01		5/12/1993	Letter	Abbreviated FSP for Time Critical Removal Action at Building 31	Deborah Stockdale U.S. Navy, NorthDiv	Andrew Miniuks U.S. EPA	Abbreviated FSP-Time Critical Removal Action (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	FSP, Time Critical Removal Action, Building 31
3	0399	02.01		5/12/1993	Letter	Follow-up on CTDEP's Comments on the Action Memorandum for Building 31	Adam D. Sullivan CTDEP	Deborah Stockdale U.S. Navy, NorthDiv	CTDEP Comment Follow-Up-Final Action Memo (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	3	Action Memo, Building 31, CTDEP
3	0029	08.02	276	5/26/1993	Report	Agency for Toxic Substances and Disease Registry, May 26, 1993. Public Health Assessment for the U.S. Naval Submarine Base, New London.	ATSDR	U.S. Navy, NorthDiv	Final		200	ATSD Registry, Public Health Assessment
3	0434	10.05		6/4/1993	Meeting Minutes	Minutes of TRC and Public Meeting on May 5, 1993. Attendees from TRC Environmental, Town of Groton Planning Dept., Atlantic, Menzie-Cura, CTDEP, NorthDiv, NSB-NLON, Sub Group 2, Ledyard Resident, USEPA, HNUS, NOAA	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (5-5-93)		83	TRC Meeting, Public Meeting, Minutes
3	0398	02.01		6/9/1993	Letter	USEPA's Follow-up on their Comments on the Final Action Memorandum for Building 31	Carol Keating U.S. EPA	David Miu U.S. Navy, NorthDiv	EPA Comment Follow-Up-Final Action Memo (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	Action Memo, Building 31, EPA
3	0539	03.01		6/10/1993	Letter	Request for CTDEP Comments on the Phase II Remedial Investigation Work Plan	Deborah Stockdale U.S. Navy, NorthDiv	Adam Sullivan CTDEP	Phase II RI Work Plan-Navy Request for CTDEP Comments		3	Phase II RI, Work Plan, Navy Request, CTDEP, Comments
3	0540	03.01		6/10/1993	Letter	Request for USEPA Comments on the Phase II Remedial Investigation Work Plan	Deborah Stockdale U.S. Navy, NorthDiv	Carol Keating U.S. EPA	Phase II RI Work Plan-Navy Request for EPA Comments		3	Phase II RI, Work Plan, Navy Request, EPA, Comments
3	0267	03.01		6/15/1993	Letter	EPA's review of Proposed Samples to be Validated	Carol Keating U.S. EPA	Barry Giroux Atlantic Environmental Services, Inc.	Proposed Samples to be Validated-EPA Review		1	Proposed Samples, Validation, EPA Review
3	0397	02.01		6/30/1993	Letter	USEPA's Comments on the Plans and Specifications for the Proposed Removal of Lead Contamination at Building 31	Carol Keating U.S. EPA	Mark Krivansky U.S. Navy, NorthDiv	EPA Comments -Plans and Specifications for Lead (Bldg. 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	8	Lead Removal, Building 31, EPA
3	0624	02.03	112	7/1/1993	Report	Field Verification Sampling Plan for Building 31	HNUS	U.S. Navy, NorthDiv	Field Verification Sampling Plan	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	200	Field Verification, Sampling Plan, Building 31
3	0538	03.01		7/15/1993	Letter	EPA Comments on the Phase II Remedial Investigation Work Plan and Quality Assurance Manual for Southwest Laboratory of Oklahoma	Carol Keating U.S. EPA	David Miu U.S. Navy, NorthDiv	Phase II RI Work Plan and QA Manual (Southwest Lab. Of OK)-EPA Comments		2	Phase II RI, Work Plan, Quality Assurance Manual, EPA, Comments
3	0503	01.01		8/3/1993	Letter	Transmittal of the Draft-Final Work Plan for the Fuel Farm UST Remedial Investigation	Brian Helland US Navy NorthDiv	Paul Marchessault U.S. EPA	Draft Final UST RI Work Plan-Transmittal	Tank Farm (Site 23)	1	UST RI Work Plan, Draft Final, Transmittal
3	0355	02.01		8/9/1993	Letter	USEPA Comments on Field Verification Sampling Plan for Building 31 Dated July 1993	Paul Marchessault U.S. EPA	David Miu U.S. Navy NorthDiv	Field Verification Sampling Plan (Bldg 31)-EPA Comments	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	5	Field Verification Sampling Plan, EPA Comments, Building 31

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3	0625	02.03	115	9/1/1993	Report	Field Verification Sampling Plan for Building 31	HNUS	U.S. Navy, NorthDiv	Field Verification Sampling Plan	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	250	Field Verification, Sampling Plan, Building 31
3	0433	10.05		9/14/1993	Meeting Minutes	Minutes of TRC and Public Meeting on August 4, 1993. Attendees from Town of Groton, Town of Ledyard, CTDEP, USEPA, NorthDiv, TRC Environmental, NSB-NLON, Atlantic, Menzie-Cura, Sub-Group 2, Ledyard Resident	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (8-4-93)		29	TRC Meeting, Public Meeting, Minutes
3	0356	02.01		9/28/1993	Letter	USEPA Comments on Navy's Response to EPA Comments dated September 9, 1993 for the Field Verification Sampling Plan for Building 31 dated July 1993	Paul Marchessault U.S. EPA	David Miu U.S. Navy NorthDiv	Field Verification Sampling Plan (Bldg. 31)-EPA Comments on Navy Responses to EPA Comments	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	Field Verification Sampling Plan, EPA Comments, Navy Responses
3	0030	03.02	112	10/1/1993	Report	Final Abbreviated Field Sampling Plan Addendum Building 31 - Lead Remediation	Halliburton NUS Corporation	U.S. Navy, NorthDiv	FSP Addendum	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	40	Lower Subase, Building 31, Lead Remediation, Field Sampling Plan
3	0031	03.03	129	10/1/1993	Report	Health and Safety Plan for Phase II Remedial Investigation	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Phase II RI HASP	Construction Battalion Unit (CBU) Drum Storage Area (Site 1), Over Bank Disposal Area Northeast (OBDANE) (Site 14), Rubble Fill Area at Bunker A-86 (Site 4), Torpedo Shops (Site 7), Goss Cove Landfill (Site 8), Spent Acid Storage and Disposal Area (SASDA) (Site 15), Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A Weapons Center, Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3), Area A Landfill and Area A Wetland (Site 2), Lower Subase, Thames River	200	Phase II Remedial Investigation, Health and Safety Plan
3	0627	02.03	129	10/9/1993	Report	Final Addenda to Planning Documents	HNUS	U.S. Navy, NorthDiv	Final Addenda to Planning Documents		100	Planning Documents, Final Addenda
3	0321	03.01		10/12/1993	Letter	(USEPA's) Review of Addendum to Phase II Work Plan	Paul Marchessault U.S. EPA	David Miu U.S. Navy, NorthDiv	Phase II Work Plan Addendum-EPA Review		6	Phase II, Work Plan Addendum, EPA Review
3	0350	02.01		10/25/1993	Letter	USEPA Comments on the Draft Sampling Addendum to Conduct Additional Groundwater Sampling for Building 31 - Lead Remediation Project	Paul Marchessault U.S. EPA	Mark Krivansky U.S. Navy, NorthDiv	Draft Sampling Addendum to Conduct Additional Goundwater Sampling (Lead Remediation Project, Bldg. 31)-EPA Comments	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Sampling Addendum, Additional Goundwater Sampling, Bldg. 31, Lead
3	0396	02.01		10/25/1993	Letter	USEPA's Comments on the Draft Sampling Plan Addendum at Building 31	Paul Marchessault U.S. EPA	Mark Krivansky U.S. Navy, NorthDiv	EPA Comments-Draft Sampling Plan Addendum (Building 31)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Draft Sampling Plan Addendum, Building 31, EPA
3	0395	02.01		11/24/1993	Letter	Transmittal for the Removal Action Health and Safety Plan, Building 31 Lead Remediation	Mark Krivansky U.S. Navy, NorthDiv	Adam Sullivan CTDEP	Transmittal-Removal Action H & S Plan (Building 31-Lead)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Removal Action, H & S Plan, Building 31, Lead
3	0432	10.05		12/13/1993	Meeting Minutes	Minutes for TRC and Public Meeting on November 4, 1993. Attendees from TRC Environmental, Atlantic, Menzie-Cura, CTDEP, NorthDiv, NSB-NLON, Sub Group 2, Ledyard Resident, HNUS, Town of Groton, Groton Resident, USEPA, Lockheed/ESAT, New London Health Department, Ledge Light Health Department, COMSUBGRU TWO, US Atlantic Fleet, General Dynamics Electric Boats	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (11-4-93)		31	TRC Meeting, Public Meeting, Minutes
3	0666	03.04		12/14/1993	Document	Field Logbooks (copies only) December 1993 through August 1994	HNUS	U.S. Navy, NorthDiv	Field Logbooks (Copies only)		500	Field Logbooks, Copies
3	0394	02.01		12/22/1993	Letter	USEPA's Comments on the Removal Action Health and Safety Plan Sampling Plan for the Building 31 Lead Remediation	Paul Marchessault U.S. EPA	Mark Krivansky US Navy NorthDiv	EPA Comments-Building 31 Lead Remediation (Removal Action H & S Plan Sampling)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	Building 31, Lead, Removal Action, Health & Safety, EPA
4	0632	06.02		1/20/1994	Report	Design Work Plan, Interim Remedial Design, Area A Downstream/OBDA Site	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Design Work Plan	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	35	Design Work Plan, Remedial Design, Interim, Area A, Downstream, OBDA
4	0633	06.02		1/20/1994	Report	Design Work Plan, Interim Remedial Design, Spent Acid Storage and Disposal Area and Area A Landfill - Concrete Pad	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Design Work Plan	Area A Landfill, Spent Acid Storage and Disposal Area (SASDA) (Site 15)	35	Design Work Plan, Remedial Design, Interim, Spent Acid Storage, Disposal Area, Area A, Landfill, Concrete Pad
4	0668	06.04		1/28/1994	Report	Design Analysis Basis of Design and Calculations, Defense Reutilization and Marketing Office	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Design Analysis, Basis of Design and Calculations	Defense Reutilization and Marketing Office (DRMO) (Site 6)	100	Design Analysis, Basis, Calculations, Defense Reutilization, Marketing Office

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4	0669	06.05		1/28/1994	Report	Interim Remedial Action, Site 6, Final Submission	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Interim Remedial Action, Final Submission	Defense Reutilization and Marketing Office (DRMO) (Site 6)	100	Remedial Action, Interim, Site 6, Final Submission
4	0032	10.03		2/1/1994	Report	Community Relations Plan	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Community Relations Plan		38	Community Relations Plan
4	0033	UA		2/1/1994	Report	Site Investigation and Soil Borings Report Remediation of Contaminated Soil/Ground Water	HRP Associates, Inc.	U.S. Navy, NorthDiv	Remediation of Contaminated Soil and Groundwater	NEX Gas Station, Dolphin Mart	140	NEX, Dolphin Mart, Soil Borings, Contaminated Soil and Groundwater
4	0034	01.02	129	2/16/1994	Report	Final Work Plan for Waste Oil Tank 5	Halliburton NUS Corporation	U.S. Navy, NorthDiv	OT-5 Work Plan	Oily Wastewater Tank (OT-5) (Site 9)	170	Tank Farm, UST, OT-5, Work Plan
4	0489	01.01		2/17/1994	Letter	Status of UST Closure, Waste Oil Tank #5 - Re-evaluation of the proposed closure method	R.W. Warner U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Re-evaluation of the Proposed Closure Method for Waste Oil Tank #5	Oily Wastewater Tank (OT-5) (Site 9)	2	Tank #5, Closure Method, Re-evaluation
4	0420	10.05		2/21/1994	Meeting Minutes	Minutes to TRC and Public Meeting on February 3, 1994. Attendees from Atlantic, Menzie-Cura, NorthDiv, Ledyard Resident, HNUS, CTDEP, USEPA, New London Health Department, COMSUBGRU TWO, Resident, HNUS, New London Day	Barry Giroux Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (2-3-94)		38	TRC Meeting, Public Meeting, Minutes
4	0631	04.04		3/1/1994	Report	Draft Proposed Plan, Area A Downstream/OBDA, Installation Restoration Program	NSB-NLON	N/A	Draft Proposed Plan	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	20	Proposed Plan, Draft, Area A, Downstream, OBDA, Installation Restoration Program
4	0496	01.01		3/4/1994	Memo	Transmittal of Final Work Plan for OT-5	Brian Helland U.S. Navy, NorthDiv	C. Williams USEPA I	OT-5 Final Work Plan Transmittal	Oily Wastewater Tank (OT-5) (Site 9)	1	OT-5, Final Work Plan, Transmittal
4	0783	06.01		3/9/1994	Letter	CTDEP Comments on the Interim Remedial Action Work Plan for the Defense Reutilization and Marketing Office	Mark Leone CTDEP	David Miu US Navy, NorthDiv	CTDEP Comments	Defense Reutilization Marketing Office	6	CTDEP Comments, Interim RA, Work Plan, Defense Reutilization, Marketing Office
4	0667	06.04		3/11/1994	Report	Design Analysis Basis of Design and Calculations, Spent Acid & PCB Contaminated Soil Remediation	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Design Analysis, Basis of Design and Calculations	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	100	Design Analysis, Basis, Calculations, Spent Acid, PCB Contaminated Soil, Remediation
4	0591	07.01		3/24/1994	Letter	Transmittal of the Final Form of the Federal Facility Agreement	Robert DiBiccaro U.S. EPA	Kenneth Hornick U.S. Navy, NorthDiv Jack Looney CTDEP	FFA Final Form Transmittal		1	Federal Facility Agreement, Final Form, Transmittal
4	0495	01.01		3/28/1994	Letter	Request for Disposal of Contaminated Water	Matt Cochran HNUS	Don Gonyea CTDEP	Contaminated Water Disposal Request		15	Request, Contaminated Water Disposal
4	0035	04.03		3/29/1994	Report	Draft Focused Feasibility Study, Spent Acid Storage and Disposal Area, Installation Restoration Program, Naval Submarine Base - New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	FFS - SASDA	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	240	Focused Feasibility Study, SASDA
4	0363	04.01		4/1/1994	Report	Draft Proposed Plan; Spent Acid Storage and Disposal Area, Installation Restoration Program	U.S. Navy	N/A	SASDA Installation Restoration Program Draft Proposed Plan	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	13	SASDA, Installation Restoration Program, Draft Proposed Plan
4	0634	04.04		4/1/1994	Report	Draft Proposed Plan, Spent Acid Storage and Disposal Area, Installation Restoration Program	NSB-NLON	N/A	Draft Proposed Plan	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	15	Draft Proposed Plan, Spent Acid Storage, Disposal Area, Installation Restoration Program
4	0635	04.04		4/1/1994	Report	Draft Proposed Plan, DRMO, Installation Restoration Program	NSB-NLON	N/A	Draft Proposed Plan	Defense Reutilization and Marketing Office (DRMO) (Site 6)	15	Draft Proposed Plan, DRMO, Installation Restoration Program
4	0662	06.04		4/1/1994	Report	Project Design and Environmental Compliance Report for the Remediation of Contaminated Soil/Groundwater	HRP Associates	U.S. Navy, NorthDiv	Project Design and Environmental Compliance Report		100	Forgect Design, Environmental Compliance, Report, Remediation, Contaminated Soil, Groundwater
4	0663	06.04		4/1/1994	Report	Specifications, Remediation of Contaminated Soil/Groundwater	HRP Associates	U.S. Navy, NorthDiv	Specifications and Remediation of Contaminated Soil/Groundwater		350	Specifications, Remediation, Contaminated Soil, Groundwater
4	0648	04.03		4/5/1994	Report	Draft Focused Feasibility Study, Area A Downstream/OBDA, Installation Restoration Program	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Focused Feasibility Study	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	200	Feasibility Study, Draft Focused, Area A, Downstream, OBDA, Installation Restoration Program
4	0494	01.01		4/12/1994	Letter	Request for Disposal of Contaminated Water and Revised Authorization Site Information Form	Matt Cochran HNUS	Don Gonyea CTDEP	Request for Forms		3	Request,Disposal of Contaminated Water, Revised Authorization Site Info, Form
4	0590	07.01		4/26/1994	Memo	Endorsement of Final Draft of the Federal Facility Agreement with comments	Gary Rahl NAVSEA	CO NAVFACENGCOM	Endorsement of Final Draft FFA w/ Comments		2	Federal Facility Agreement, Final Draft, Endorsement, Comments

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4	0036	04.01	276	4/29/1994	Letter	Letter to David Miu, Navy NorthDiv NAVFAC, from Christine Williams, U.S. EPA. Re: U.S. EPA comments on the Draft Focused Feasibility Study.	Christine Williams U.S. EPA	David Miu U.S. Navy, NorthDiv	EPA Comments on the Draft Focused Feasibility Study		2	Feasibility Study, EPA Comments
4	0037	06.04		4/29/1994	Report	Design Analysis Basis of Design and Calculations Spent Acid & PCB Contamination Soil Remediation	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	DAB-Calc for Spent Acid and PCB Soil	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	25	DABDC, Spent Acid, PCB
4	0038	06.04		4/29/1994	Report	Spent Acid & PCB Contamination Soil Remediation	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Soil Remediation - Spent Acid, PCB	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	50	Spent Acid, PCB, Soil Remediation
4	0309	04.01		4/29/1994	Letter	EPA's Comments on the Focused Feasibility Studies for DRMO Area A Landfill, OBDA/Area A Downstream, and the Spent Acid Tank	Christine Williams U.S. EPA	David Miu U.S. Navy, NorthDiv	FFS (DRMO Area A Landfill, OBDA/ Area A Downstream & Spent Acid Tank)-EPA Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A Landfill, Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3), and the Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	FFS, DRMO, Area A Landfill, OBDA, Spent Acid Tank
4	0039	06.04		5/2/1994	Report	Design Analysis Basis of Design and Calculations Area A Landfill (Final Submission)	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	DAB - Area A Landfill	Area A Landfill (Site 2)	150	DABDC, Area A Landfill
4	0493	01.01		5/10/1994	Letter	Disposal of Contaminated Water	Stanley Conti HNUS	Don Gonyea CTDEP	Contaminated Water Disposal		2	Contaminated Water, Disposal
4	0040	01.02	129	5/19/1994	Report	Final Site Characterization Report for Waste Oil Tank 5	Halliburton NUS Corporation	U.S. Navy, NorthDiv	OT 5 - FSC	Oily Wastewater Tank (OT-5) (Site 9)	50	WOT 5, Final Characterization
4	0449	10.05		5/24/1994	Meeting Minutes	Minutes of May 6, 1994 Meeting on Technical Issues relating to the Proposed Interim Remedial Actions at the DRMO, Spent Acid Storage and Disposal Area, Area A Landfill, and Area A Downstream/OBDA sites. Attendees from Atlantic, Menzie-Cura, NorthDiv, NSB-NLON, EPA, Lockheed/ESAT, TRC, CTDEP	Barry Giroux Atlantic Environmental Services, Inc.	Attendees	Minutes from Meeting on Technical Issues Relating to the Proposed Interim Remedial Actions		5	Meeting Minutes, Interim Remedial Actions, DRMO Spent Acid Storage and Disposal Areas
4	0041	04.01	276	5/27/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Christine Williams, U.S. EPA. Re: Comments on the Draft Focused Feasibility Study.	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on the Draft Focused Feasibility Study		15	Draft Focused Feasibility Study, EPA Comments
4	0310	04.01		5/27/1994	Letter	EPA's Preliminary Comments on the Focused Feasibility Studies for DRMO, Area A Landfill, OBDA/Area A Downstream, and the Spent Acid Tank	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	FFS (for DRMO, Area A Landfill, OBDA/Area A Downstream, and Spent Acid Tank)-EPA Preliminary Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6), Area A Landfill, Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3), and the Spent Acid Storage and Disposal Area (SASDA) (Site 15)	35	FFS, DRMO, Area A Landfill, OBDA, Spent Acid Tank, EPA Preliminary Comments
4	0042	04.01	276	5/31/1994	Letter	Letter to David Miu, Navy NorthDiv NAVFAC, from Mark Leone, CTDEP. Re: Preliminary comments on the Draft Focused Feasibility Study.	Mark Leone CTDEP	David Miu U.S. Navy, NorthDiv	Preliminary CTDEP Comments on the Draft Focused Feasibility Study		2	Prelim CTDEP Comments, Draft Focused Feasiblity Study
4	0314	04.01		5/31/1994	Letter	(CTDEP's) Preliminary Comments on Draft Focused Feasibility Studies	Mark Leone CTDEP	David Miu U.S. Navy, NorthDiv	Draft FFS-CTDEP Preliminary Comments		2	Draft FFS, CTDEP Prelim. Comments
4	0790	06.01		5/31/1994	Fax:	Memo: EPA comments on the Design Analysis Report for the DRMO from Yoon-jean Choi to Kymberlee Keckler, USEPA I	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	Memo-EPA Comments on the Design Analysis Report	Defense Reutilization Marketing Office	1	Memorandum, EPA, Comments, Design Analysis, DRMO
4	0417	10.05		6/7/1994	Meeting Minutes	Draft Minutes of TRC and Public Meeting on May 17, 1994. Attendees from HNUS, Ledyard Resident, Atlantic, NSB-NLON, CTDEP, USEPA, NorthDiv, Menzie-Cura & Assoc., Town of Groton, TRC Environmental, ROICC-NLON, Ledge Light Health District, LEAF	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Draft Minutes (5-17-94)		46	TRC Meeting, Public Meeting, Minutes
4	0043	04.03	276	6/13/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Christine Williams, U.S. EPA. Re: Comments on the Supplemental Work Plan.	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Supplemental Work Plan		3	U.S.EPA Comments, Supplemental Work Plans
4	0339	01.01		6/22/1994	Meeting Minutes	Minutes of June 14, 1994 Meeting RE: Installation Restoration Study Attendees included: Barry Giroux (Atlantic), Paul Burgess (Atlantic), Mark Evans (NorthDiv), Richard Conant (Subase Env), Christine Williams (EPA)	Barry Giroux Atlantic Environmental Services, Inc.	Attendees	Installation Restoration Study Meeting Minutes		10	Installation Restoration Study, Meeting Minutes
4	0448	01.01		6/22/1994	Meeting Minutes	Minutes and attachments of June 14, 1994 Meeting regarding the resolution of EPA comments dated May 27, 1994. Attendees included Barry Giroux/Paul Burgess (Atlantic), Mark Evans (Navy), Richard Conant (Subase Env), Christine Williams (EPA)	Barry Giroux Atlantic Environmental Services, Inc.	Attendees	Minutes and Attachments-Meeting Regarding Resolution of EPA Comments dated 5-27-94		32	Meeting Minutes, Attachments, EPA Comments
4	0487	01.01		6/24/1994	Letter	Status of UST Closure, Waste Oil Tank #5	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	UST Closure Status-Waste Oil Tank	Oily Wastewater Tank (OT-5) (Site 9)	1	UST Closure, Waste Oil Tank
4	0777	06.01		6/27/1994	Letter	Comments on the May 26, 1994 submission of the Area A Downstream/OBDA Remediation	Gary Leavitt CTDEP	Barry Giroux Atlantic Environmental	CTDEP Comments	Area A Downstream/OBDA	1	CTDEP, Comments, Submission, Area A, Downstream, OBDA

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4	0351	03.01/05.01/11.02		6/28/1994	Letter	USEPA Comments on Building 31 Removal Action Community Relations Requirements, ROD Schedules for Spent Acid and Area A Downstream Focused Feasibility Studies (EPA Guidance Documents attached)	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Bldg. 31 Removal Action Community Relations Requirements, etc.-EPA Comments (EPA Guidance Documents Attached)	Area A Downstream Water Courses (Site 3), Spent Acid Storage and Disposal Area (SASDA) (Site 15)	11	Building 31 Removal Action, Community Relations, ROD Schedules, EPA Comments
4	0192	06.01	115	6/29/1994	Letter	Interim Remedial Actions, Resolve issues prior to designs being put out for bid (DRMO, Spent Acid, and Area A Downstream)	Barry Giroux Atlanta Environmental Services	James Briggs U.S. Navy, NorthDiv	Interim Remedial Actions (DRMO, Spent Acid, and Area A Downstream)	2	4	Interim Remedial Actions, DRMO, Spent Acid, Area A Downstream
4	0044	01.02	UA	7/1/1994	Report	Offsite Residential Well Water Data Evaluation Report - Naval Submarine Base - New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Well Water Data Evaluation	Residential Off-site	90	Off-Site Residential Well Water
4	0654	01.03		7/1/1994	Report	Draft Site Inspection Report for Pier 33 and Berth 16/Former Incinerator - Volume II - Appendices	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Site Inspection Report	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1000	Site Inspection Report, Draft, Pier 33, Berth 16, Former Incinerator, Volume II, Appendices
4	0670	01.02		7/1/1994	Report	Background Soils Data Report, Installation Restoration Program	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Bacground Soils Data Report/Installation Restoration Program		200	Soils, Data Report, Background, Installation, Restoration Program
4	0592	07.01		7/5/1994	Fax	Endorsement of Federal Facility Agreement with comments	J.A. Stone NSB-NLON	CO U.S. Navy, NorthDiv	Endorsement of FFA w/ Comments		2	Federal Facility Agreement, Endorsement, Comments
4	0782	04.04		7/7/1994	Letter	Navy's Plan of Action for the Ecological Risk Assessment at Area A Downstream	Mark Evans US Navy, NorthDiv	Christine Williams USEPA I	Navy's Ecological RA Plan of Action	Area A Downstream	6	Navy, Ecological RA, Plan of Action, Area A, Downstream
4	0045	01.02	129	7/11/1994	Report	Draft Abbreviated Field Verification Sampling Plan for Waste Oil Tank No. 5 Removal Action	Halliburton NUS Corporation	U.S. Navy, NorthDiv	OT 5 - Sampling Plan	Oily Wastewater Tank (OT-5) (Site 9)	35	OT 5 Field Verification Sampling Plan
4	0354	10.04		7/15/1994	Fax	Notice: Public Comment Notice for the Action Memorandum	M. Krivansky NorthDiv	N/A	Action Memo-Public Comment Notice		1	Action Memo, Public Comment
4	0775	03.01		7/20/1994	Letter	USEPA Comments on the Navy Letter dated July 7, 1994 concerning Ecological Work at Area A Downstream	Christine Williams USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on Navy Responses (July 7, 1994)	Area A Downstream	3	EPA, Comments, Navy, Ecological Work, Area A, Downstream
4	0781	03.01		7/20/1994	Letter	USEPA Comments on the Navy letter dated July 7, 1994 concerning the Ecological Work at Area A Downstream	Christine Williams USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Area A Downstream	6	EPA, Comments, Navy, Letter, Ecological Work, Area A, Downstream
4	0520	03.01		7/22/1994	Letter	Problems encountered at the Split Sampling Event during the second round of Sampling at Well 2DMW29S	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Second Round Sampling Problems (Split Sampling Event)-Well 2DMW29S	Well 2DMW29S	2	Second Round, Sampling Probs., Well 2DMW29S
4	0486	01.01		7/25/1994	Document	Telephone Conversation Record: Closure of OT-5 (faxed 07/26/94)	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Closure of OT-5 Telephone Cnversation Record	Oily Wastewater Tank (OT-5) (Site 9)	2	Telephone Conversation, Closure, OT-5
4	0046	04.01	276	7/26/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Leone, CTDEP. Re: Comments on the Draft Focused Feasibility Study for DRMO	Mark Leone CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP comments on the Draft Focused Feasibility Study		118	CTDEP Comments, Draft Focused Feasibility Study
4	0353	02.01		7/26/1994	Letter	Administrative Record Index - Building 31 Lead Contaminated Soil Removal Project	Mark Evans U.S. Navy, NorthDiv	Christine Williams U.S. EPA	Pb Contaminated Soil Removal Progect (Bldg. 31) AR index	Lower Subase-Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	3	Lead, Soil Removal, Building 31, Administrative Record Index
4	0361	04.01		7/26/1994	Letter	CTDEP's Additional Staff Comments as promised in Preliminary comment Letter dated 05/31/94 for the Draft Focused Feasibility Study, Spent Acid Storage and Disposal Area	Mark Leone CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft FFS-Additional CTDEP Staff Comments (SASDA)	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	4	FFS, CTDEP, Staff Comments, SASDA
4	0778	04.01		7/26/1994	Letter	CTDEP Additional Comments to the Focused Feasibility Study for Area A Downstream/OBDA	Mark Leone CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Additional Comments	Area A Downstream/OBDA	4	CTDEP, Additional Comments, Focused Feasibility Study, Area A Downstream, OBDA
4	0352	02.01		8/3/1994	Letter	USEPA Comments on Building 31 Removal Action Draft Administrative Record Index	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Building 31 Removal Action Draft AR Index-EPA Comments	Lower Subase-Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Removal Action Draft, Bldg. 31, Administrative Record Index, EPA Comments
4	0047	02.01	267	8/5/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Christine Williams, U.S. EPA. Re: Time-Critical Removal Actions at the DRMO.	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Letter concerning Time-Critical Removal Actions at the DRMO (USEPA)		2	U.S.EPA, Time-Critical Removal Actions at the DRMO
4	0521	03.01		8/5/1994	Letter	Navy Response to EPA's July 22, 1994 letter Requesting a resample of Monitoring Well 2DMW29S	Mark Evans U.S. Navy, NorthDiv	Christine Williams U.S. EPA	Navy Response to EPA's Resample Request	Will 2DMW29S	2	Resample Request, EPA, Navy Response
4	0290	10.01		8/24/1994	Letter	USEPA Comments on the August 1994 Fact Sheet	Leo Kay U.S. EPA	Mark Evans US Navy NorthDiv	August 1994 Fact Sheet-EPA Comments		6	Fact Sheet (8/94), EPA Comments
4	0789	05.01		8/31/1994	Letter	Transmittal for Removal Actions at Site 6, Defense Reutilization and Marketing Office and Site 15, Spent Acid Storage and Disposal Area	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP Christine Williams USEPA I	Transmittal of Removal Actions	Defense Reutilization and Marketing Office, Spent Acid Storage and Disposal Area	1	Transmittal, Removal Actions, Site 6, Defense Reutilization, Marketing Office, Site 15 Spent Acid Storage, Disposal Area

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4	0048	04.01	276	9/1/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Christine Williams, U.S. EPA. Re: Additional technical comments on the Draft Focused Feasibility Study for Area A/OBDA Area A Downstream	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Additional USEPA technical comments on the Draft Focused Feasibility Study for Area A/OBDA Area A Downstream	Area A/OBDA Area A Downstream	16	USEPA, Tech. Comments, Area A/OBDA, Area A Downstream
4	0049	01.02		9/1/1994	Report	Environmental Assessment for Pier 17 Replacement, Naval Submarine Base - New London, Groton, Connecticut	McGuire Group Inc.	U.S. Navy, NorthDiv	Pier 17 EA	Pier 17 Lower Subase	225	Pier 17, Environmental Assessment
4	0288	10.06		9/1/1994	Fact Sheet	Information Update: Installation Restoration Program, September 1994	U.S. Navy	Mailing List	Installation Restoration Program-9/94 Information Update		4	Info. Update, September 1994
4	0311	04.01		9/1/1994	Letter	EPA's Additional Technical Comments on the Focused Feasibility Studies for Area A Landfill and OBDA/Area A Downstream	Christine Williams U.S. EPA	Mark Evans U.S. Navy, NorthDiv	FFS (Area A Landfill, OBDA/Area A Downstream, Spent Acid Tank)-EPA Additional Technical Comments	Area A Landfill and Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	16	FFS, Area A Landfill, OBDA, Spent Acid Tank, Technical Comments, EPA
4	0791	05.01		9/1/1994	Legal Ad	Public Comment Invitation for the Action Memorandum Report and Administrative Record for the Restoration Actions at the DRMO and Spent Acid Area w/Draft Fact Sheet attached dates September 1994 titled Proposed Removal Action at DRMO and Spent Acid Area	Mark Evans US Navy, NorthDiv	N/A	Public Comment Invitation	Defense Reutilization and Marketing Office, Spent Acid Storage and Disposal Area, Site 6, Site 15	3	Public Comment, Invitation, Action Memo, AR, Restoration Actions, DRMO, Spent Acid Area, Draft Fact Sheet
4	0315	04.01		9/6/1994	Letter	Navy Response to CTDEP Comments of May 31, 1994 Regarding the Draft Focused Feasibility Study for the Area A Landfill, Dated March 28, 1994	Barry Giroux Atlantic Environmental Services, Inc.	Mark Lewis CTDEP	Draft FFS-Navy Response to CTDEP Comments	Area A Landfill (Site 2)	2	Draft FFS, Navy Responses, CTDEP Comments
4	0431	10.05		9/6/1994	Meeting Minutes	Minutes for TRC and Public Meeting on August 11, 1994. Attendees from HNUS, Ledyard Resident, Atlantic, NSB-NLON, USEPA, NorthDiv, Menzie-Cura, NOAA	Barry Giroux and Paul Burgess Atlantic Environmental Services, Inc.	TRC Members	TRC and Public Meeting Minutes (8-11-94)		9	TRC Meeting, Public Meeting, Minutes
4	0586	07.01		9/8/1994	Memo	Endorsement of Revised Draft Federal Facility Agreement	D.G. Dominique NSB-NLON	Commander in Chief U.S. Atlantic Fleet	Revised Draft Federal Facility Agreement Endorsement		1	Federal Facility Agreement, Revised Draft, Endorsement
4	0649	02.06		9/20/1994	Report	Draft Action Memorandum for the Defense Reutilization and Marketing Office and the Spent Storage Disposal Area	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Draft Action Memo	Defense Reutilization and Marketing Office (DRMO) (Site 6)	175	Draft Action Memorandum, Defense Reutilization, Marketing Office, Spent Storage, Disposal Area
4	0786	05.02		9/21/1994	Letter	Transmittal for the Draft Action Memorandum and public Notice for the Defense Reutilization and Marketing Office and Spent Acid Storage and Disposal Area	Barry Giroux Atlantic Environmental	Kymberlee Keckler USEPA I	Transmittal of the Draft Action Memo. and Public Notice	Defense Reutilization and Marketing Office, Spent Acid Storage, Disposal Area, DRMO, Site 6, Site 15	1	Transmittal, Draft Action Memo., Public Notice, Defense Reutilization, Marketing Office, Spent Acid Storage, Disposal Area
4	0588	07.01		9/22/1994	Memo	Transmittal of the Federal Facilities Agreement	J.S. Walker US Navy DC	Assistant Secretary of the Navy Installations and Environment	Federal Facility Agreement-Transmittal		1	Federal Facility Agreement, Transmittal
4	0589	07.01		9/23/1994	Memo	Comments on the Federal Facilities Agreement	G.N. Tzavaras U.S. Navy VA	Chief of Naval Operations (N45)	Comments on FFA		2	Federal Facility Agreement, Comments
4	0788	05.01		9/23/1994	Letter	Transmittal for the Fact Sheet regarding the time-critical removal actions at the Defense Reutilization and Marketing Office and the Spent Acid Storage and Disposal Area, Fact Sheet attached	Barry Giroux Atlantic Environmental	Kymberlee Keckler USEPA I	Transmittal of the Fact Sheet	Defense Reutilization and Marketing Office, Spent Acid Storage, Disposal Area, DRMO, Site 6, Site 15	3	Transmittal, Facti Sheet, Time-Critical Removal Acitons, Defense Reutilization, Marketing Office, Spent Acid Storage, Disposal Area
4	0492	01.01		9/26/1994	Letter	CTDEP Comments on the Work Plan for Waste Oil Tank No. 10 and Building 325 No. 2 Fuel Oil dated August 1994 and the Site Characterization Report for Waste Oil Tank #5	Scott Deshefy CTDEP	Tim Evans HNUS	CTDEP Comments on Work Plan	Tank Farm (Site 23), Torpedo Shops (Site 7)	1	Work Plan, Tank #10, Bldg. 325 #2 Fuel Oil
4	0606	01.01		9/26/1994	Letter	EPA Comments on the Draft Site Inspection Report for Pier 33 and Berth 16/Former Incinerator	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	6	EPA, Comments, Site Inspection Report, Draft, Pier 33, Berth 16, Former Incinerator
4	0299	01.01		10/5/1994	Letter	Background Soils Data Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Background Soils Data Report		2	Soils Data, Background
4	0050	01.02	129	10/6/1994	Report	Final Work Plan for Waste Oil Tank No. 10 and Bldg. 325 No. 2. Fuel Oil Tanks	Halliburton NUS Corporation	U.S. Navy, NorthDiv	FWP - WOT 10, Bldg 325 No. 2	Tank Farm (Site 23), Torpedo Shops (Site 7)	110	WOT 10 Work Plan, Building 325 No. 2 FOT
4	0787	06.01		10/14/1994	Letter	EPA's Comments on the Draft Work Plan, Quality Control Plan, Sampling and Analysis Plan, Safety, Health, and Emergency Response Plan, and Environmental Protection Plan for the Interim Remedial Action at DRMO, Site 6	Christine Williams USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office	13	EPA, Comments, Draft Work Plan, QC Plan, Sampling and Analysis, Safety, Health, Emergency Response, Environmental Protection, Interim RA, DRMO, Site 6
4	0326	04.03		10/25/1994	Letter	USEPA Comments on Area A Wetland Delineation Report dated July 26, 1994	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Area A Wetland Delineation Report-EPA Comments		3	Wetland Delineation, EPA

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4	0491	01.01		10/28/1994	Letter	Site Characterization Report for Waste Oil Tank 5	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Waste Oil Tank #5-Site Characterization Report	Oily Wastewater Tank (OT-5) (Site 9)	2	Tank #5, Characterization Report
4	0587	07.01		10/28/1994	Letter	Transmittal for the Federal Facility Agreement for signature	John Looney CTDEP	Robert DiBiccaro U.S. EPA	Federal Facility Agreement-Transmittal for Signature		1	Federal Facility Agreement, Transmittal, Signature
4	0312	04.01		10/31/1994	Letter	Navy Response to USEPA's Comments dated September 1, 1994 Regarding the Focused Feasibility Study for the Area A landfill	Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	FFS (Area A Landfill)-Navy Responses to EPA Comments	Area A Landfill (Site 2)	11	FFS, Navy Responses, EPA Comments, Area A Landfill
4	0051	06.02	129	11/1/1994	Report	Letter Work Plan for Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Letter WP - Area A Landfill, etc.	Area A Landfill and Area A Wetland (Site 2), Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	10	Letter Work Plan, Area A Landfill/Wetland Interface and OBDA
4	0485	01.01		11/1/1994	Letter	Transmittal of the Final Specification for Closure of Waste Oil Tank #5	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Final Specification for Closure (Waste Oil Tank #5)-Transmittal	Oily Wastewater Tank (OT-5) (Site 9)	1	Final Closure, Transmittal, Tank #5
4	0362	04.01		11/2/1994	Letter	EPA Review of Plans and Specifications for Spent Acid Storage and Disposal Area	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	SASDA Plans and Specifications-EPA Review	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	3	SASDA, Plans and Specifications, EPA Review
4	0052	02.01	267	11/4/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA.. Re: Comments on the Action Memorandum.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA Comments on the Action Memorandum		2	EPA Comments, Action Memo, Keckler
4	0435	10.05		11/9/1994	Meeting Minutes	Minutes of RAB and Public Meeting. Attendees from RAB Members, USEPA, Atlantic, Groton Resident, NorthDiv, COMSUBGRU 2, NSB-NLON, CTDEP, HNUS, Menzie-Cura, Town of Groton Planning Dept	Matt Cochran HNUS	RAB Members	RAB and Public Meeting Minutes		56	RAB Meeting, Public Meeting, Minutes
4	0462	10.05		11/9/1994	Meeting Minutes	Minutes of November 9, 1994 RAB and Public Meeting. Attendees from USEPA, Atlantic, Navy, COMSUBGRU 2, NSB-NLON, HNUS, Menzie-Cura, Town of Groton, Residents of Groton	Matt Cochran HNUS	RAB Members	RAB and Public Meeting Minutes (11-9-94)		4	RAB Meeting, Public Meeting, Minutes
4	0542	09.01		11/15/1994	Letter	NOAA Comments on the Thames River and Goss Cove data summaries	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA	Thames Rv. And Goss Cove Data Summaries-NOAA Comments	Thames River, Goss Cove Landfill (Site 8)	2	Data Summaries, Thames Rv., Goss Cove, NOAA, Comments
4	0757	01.01		11/15/1994	Letter	EPA technical comments on the Ecological Meeting Minutes from September 27, 1994 and the Letter Work Plan for Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Technical Comments	Area A Landfill/Wetland Interface, Downstream/OBDA	9	EPA , Technical Comments, Ecological Meeting Minutes, Work Plan, Area A, Landfill/Wetland Interface, Downstream/OBDA, Sampling
4	0780	03.01		11/15/1994	Letter	USEPA Comments on the Ecological Meeting Minutes, September 27, 1994 and the Letter Work Plan for Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	9	EPA Comments, Ecological Meeting Minutes, Letter Work Plan, Area A Landfill/Wetland interface, Downtream, OBDA, Sampling
4	0392	02.01		11/22/1994	Letter	USEPA's Comments to the Post-Removal Action Report for Building 31 Lead Remediation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Building 31 Lead Remediation (Post-Removal Action)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	5	Lead, Post-Removal Action, Building 31
4	0053	02.01	267	11/23/1994	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding draft Action Memorandum.	M. Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP comments on the Draft Action Memorandum		8	CTDEP Comments, Action Memo, Lewis
4	0776	03.01	129	11/23/1994	Letter	Transmittal for the final Letter Work Plan for Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Matt Cochran Tetra Tech NUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Letter Work Plan	Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	2	Transmittal, Work Plan, Final Letter, Area A, Landfill/Wetland Interface, Downstream, OBDA Sampling
4	0598	01.01		11/28/1994	Letter	Transmittal of the Draft Supplemental Initial Assessment Study for CTDEP Review	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Draft Final Supplement Initial Assessment Study Transmittal		1	Draft Final Supplement, Initial Assessment Study, Transmittal, CTDEP Review
4	0600	01.01		11/29/1994	Letter	CTDEP's comments on the Draft Site Inspection Report, Pier 33 and Berth 16/Former Incinerator, Installation Restoration Program	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	3	CTDEP, Comments, Site Inspection Report, Draft, Pier 33, Berth 16, Former Incinerator, Installation Restoration Program
4	0502	01.01		11/30/1994	Letter	Transmittal of the Draft Final Work Plan for the UST Investigation at the Fuel Farm	Brian Helland U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis & Scott Deshefy CTDEP	Draft Final UST Investigation Work Plan-Transmittal	Tank Farm (Site 23)	1	UST Investigation, Draft Final Work Plan, Fuel Farm, Transmittal
4	0054	02.03	129	12/1/1994	Report	Post Removal Action Report for Waste Oil Tank No. 5, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	OT-5 Post-Removal Action Report	Oily Wastewater Tank (OT-5) (Site 9)	70	OT 5 Post Removal Action Report
4	0055	01.02		12/1/1994	Report	Draft Ecological Risk Assessment Thames River	Menzie-Cura & Associates, Inc.	Halllburton NUS Corporation	Thames River - ERA	Thames River	130	Thames River ERA
4	0056	01.02	129	12/8/1994	Report	Proposed Quay Wall Investigation and Emergency Response Activities Lower Subase	Halliburton NUS Corporation	Conn DEPA	Quay Wall Investigation Emergency Response	Lower Subase	16	Quay Wall, Emergency Reponse Lower Subase

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4	0357	06.01		12/9/1994	Letter	Disposal of Contaminated Soil from Spent Acid Storage and Disposal Area (Site 15)	A.E. Haring US Navy NorthDiv Installation Restoration	Envotech Management Services, Inc.	Disposal of Cantaminated Soil (Site 15)	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Contaminated Soil, Spent Acid and Disposal Area, Site 15
4	0057	02.01	267	12/22/1994	Letter	Letter to Mark Lewis, CTDEP from Barry Giroux, Atlantic, on behalf of the Navy NorthDiv NAVFAC. Re: Navy response to comments on the Draft Action Memorandum.	Barry Giroux Atlantic Environmental Services, Inc.	Mark Lewis CTDEP	Navy response to CTDEP comments on the Draft Action Memorandum		10	Navy Response, Draft Action Memo, CTDEP comments, Giroux
4	0058	02.01	267	12/22/1994	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Barry Giroux, Atlantic, on behalf of the Navy NorthDiv NAVFAC. Re: Navy response to comments on the Draft Action Memorandum.	Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	Navy response to USEPA comments on the Draft Action Memorandum		3	Navy Response, Draft Action Memo, USEPA comments, Giroux
4	0313	04.01		12/22/1994	Letter	USEPA's comments on the Revised Draft Feasibility Study for the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Revised Draft FS (Area A)-EPA Comments	Area A Landfill (Site 2)	15	Revised Draft FS, EPA Comments
4	0535	03.01		12/22/1994	Letter	EPA comments on the Oyster, Mussel, Sediment, and Water Column Data from the Thames River	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Water Column Data (Thames Rv.)-EPA Comments	Thames River	6	Water Column Data, Thames, EPA, Comments, Oyster, Mussel, Sed.
4	0601	01.01		12/22/1994	Letter	Atlantic Responses to EPA Comments dated September 26, 1994 on the Draft Site Inspection Report, Pier 33 and Berth 16/Former Incinerator	Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	Atlantic Responses to EPA Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	5	Atlantic, Responses, EPA, Comments, Site Inspection Report, Draft, Pier 33, Berth 16, Former Incinerator
4	0602	01.01		12/22/1994	Letter	Atlantic Responses to CTDEP Comments dated November 29, 1994 on the Draft Site Inspection Report, Pier 33 and Berth 16/Former Incinerator (July 1994)	Barry Giroux Atlantic Environmental Services, Inc.	Mark Lewis CTDEP	Atlantic Responses to CTDEP Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	2	Atlantic, Responses, CTDEP, Comments, Site Inspection Report, Draft, Pier 33, Berth 16, Former Incinerator
4	0785	10.01		12/23/1994	Letter	City of Groton request for an extension to the comment period the Action Memorandum Report	Kathleen Clarke City of Groton	Mark Evans US Navy, NorthDiv	City of Groton Request for an Extension of Comment Pd.		1	Groton, Request, Extension, Comment Period, Action Memo. Report
4	0476	01.02		12/29/1994	Memo	NorthDiv Transmittal Letter for the Historical Radiological Assessment	Mark Evans U.S. Navy, NorthDiv	CO, Portsmouth Naval Shipyard	Historical Radiological Assessment-NorthDiv Transmittal Lettter		2	Historical Radiological Assessment, NorhtDiv
4	0293	06.01		12/30/1994	Letter	Interim Remedial Action, Site 2 Area A Landfill	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Interim Remedial Action (Site 2, Area A Landfill)		4	Remedial Action, Site 2, Area A
4	0477	01.02		12/30/1994	Letter	Transmittal of the Radiological PA (Volume I and Volume II of the Draft Historical Radiological Assessment)	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Transmittal of the Radiological PA		3	Radiological PA, Transmittal
4	0480	03.01		12/30/1994	Memo	Navy Distribution of Draft Historical Radiological Assessment	B.M. Olsen US Navy	Distribution	Draft Historical Radiological Assessment-Navy Distribution		4	HRA, Distribution
4	0584	05.01		12/30/1994	Letter	Request for schedule change for the Draft Proposed Plan and the Draft ROD	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Draft Proposed Plan and Draft ROD Schedule Change Request		4	Schedule Change, Request, Proposed Plan, Draft, ROD
4	0059	07.04		1/1/1995	Report	Federal Facility Agreement Under CERCLA 120, In the Matter of The US Department of the Navy, Naval Submarine Base - New London, Groton, Connecticut	U.S. EPA U.S. Navy CTDEP	U.S. EPA U.S. Navy CTDEP	FFA		100	FFA
4	0060	02.01	267	1/4/1995	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from William C. Spicer, City of Groton. Re: Comments on the Action Memorandum, DRMO (Site 6)	William Spicer City of Groton	Mark Evans U.S. Navy, NorthDiv	City of Groton comments on the Action Memorandum, DRMO (Site 6)	Defense Reutilization and Marketing Office (DRMO) (Site 6)	3	Groton, comments, Action Memorandum, DRMO, Site 6
5	0296	07.01		1/4/1995	Letter	Federal Facilities Agreement Schedule for the Area A Landfill in response to Navy letter dated December 30, 1994	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Federal Facilities Agreement (Area A) per Navy Letter (12/30/94)	Area A Landfill (Site 2)	3	Federal Facilities Agreement Schedule, EPA
5	0301	04.01		1/5/1995	Letter	CTDEP Comments Regarding Revised Draft Focused Feasibility Study - Area A Landfill dated November 8, 1994	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Revised Draft Focused Feasibility Study-CTDEP Comments	Area A Landfill (Site 2)	6	Draft Focused Feasibility Study, Revised, CTDEP
5	0292	07.01		1/11/1995	Letter	NSB-NLON Federal Facility Agreement	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP	Federal Facilities Agreement (NSB-NLON)		2	Federal Facilities Agreement
5	0585	07.01		1/11/1995	Fax	Letter: Transmittal of fully executed Federal Facility Agreement	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP	Fully Executed Federal Facility Agreement-Transmittal Letter		2	Federal Facility Agreement, Fully Executed, Transmittal
4	0061	02.06	129	1/12/1995	Report	Final Action Memorandum for Quay Wall Site - Response to Discharge of Petroleum Product	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Final Action Memorandum for Quay Wall Site - Response to Discharge of Petroleum Product	Lower Subase Quaywall	25	Final Action Memo, Quay Wall, Petroleum

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5	0349	02.01		1/12/1995	Letter	Transmittal of the Final Action Memorandum for Quay Wall Site - Response to Discharge of Petroleum Product	Matt Cochran HNUS	Andrew Stackpole U.S. Navy Groton, CT	Response to Discharge of Petroleum Product Final Action Memo (Quay Wall)	Quay Wall	1	Discharge of Petroleum Product Action Memo
5	0391	02.01		1/12/1995	Letter	USEPA's Response to Navy's Response to EPA's Comments on the Draft Post-Removal Action Report for Building 31	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Responses-Building 31 Draft Post-Removal Action Report	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	1	Post-Removal Action, Building 31, EPA
5	0597	01.01		1/12/1995	Letter	EPA Comments on the Draft Supplemental Initial Assessment Study	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		7	Draft Supplement, Initial Assessment Study, EPA, Comments
5	0390	02.01		1/17/1995	Letter	(CTDEP) Comments Regarding Post Removal Action Report for Building 31 Lead Remediation	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments-Post Removal Action Report for Building 31 (Lead)	Lower Subase Hazardous Materials/Solvent Storage Area (Building 31) (Site 17)	2	Post Removal Action, Building 31, Lead
5	0348	02.01		1/18/1995	Letter	Transmittal of the Action Memorandum for the Time Critical Response Action at the Quay Wall Site	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Time Critical Response Action Memo (Quay Wall)	Quay Wall	1	TCR, Action Memo, Quay Wall
5	0295	07.01		1/24/1995	Letter	Federal Facilities Agreement Schedule, NSB-NLON in Response to USEPA letter dated January 4, 1995	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Federal Facilities Agreement Schedule, NSB-NLON per EPA Letter (1/4/95)		5	Federal Facilities Agreement Schedule, NSB-NLON
4	0062	02.03	115	1/30/1995	Report	Post Removal Action Report for Building 31 Lead Remediation, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Building 31 - Post Removal Action Report	Building 31	300	Building 31, Post Removal, Action Report, Lead
5	0316	04.01		1/31/1995	Letter	Navy's Responses to EPA-written comments of December 22, 1994 on the Revised Draft Focused Feasibility Study for the Area A Landfill	Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	Revised Draft FFS-Navy Responses to EPA Comments	Area A Landfill (Site 2)	8	Revised Draft FFS, Navy Responses, EPA Comments
4	0063	01.03		2/1/1995	Report	Final Site Inspection Report, Pier 33 and Berth 16/Former Incinerator, Installation Restoration Program, Naval Submarine Base - New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Site Inspection - Pier 33/Berth 16	Pier 33 & Berth 16/Former Incinerator	2000	Final Site Inspection, Pier 33, Berth 16
5	0604	01.01		2/2/1995	Letter	EPA Comments on the Navy Responses to EPA's Comments on the Draft Site Inspection Report for Pier 33 and Berth 16	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Navy Responses to Their Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	EPA, Comments, Navy Responses, Site Inspection Report, Draft, Pier 33, Berth 16
5	0294	07.01		2/3/1995	Letter	Federal Facilities Agreement Schedule for the Area A Landfill in response to Navy letter dated January 24, 1995	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Federal Facilities Agreement Schedule (Area A), per Navy Letter (1/24/95)	Area A Landfill (Site 2)	1	Federal Facilities Agreement Schedule, Area A
4	0064	02.03	115	2/4/1995	Report	Insert For Final Post-Removal Action Report - Building 31 Lead Remediation	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Insert for Final Post-Removal Action Report-Bldg. 31	Building 31	110	Insert, Post-Removal Action Report, Bldg. 31, Lead
4	0065	02.01	267	2/7/1995	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Responses to U.S. EPA comments on the Action Memorandum.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Letter concerning Navy responses to USEPA comments on the Action Memorandum		2	U.S.EPA, Action Memo, USEPA Comments
5	0546	03.01		2/7/1995	Meeting Minutes	Minutes of the January 30, 1995 Ecological Meeting w/transmittal letter. Attendees from EPA, HNUS, Lockheed ESAT, Navy, Menzie-Cura, NOAA, EPA/ESD	Matt Cochran HNUS	Mark Evans U.S. Navy, NorthDiv	Ecological Meeting (1-30-95) Minutes with Transmittal Letter		5	Ecological Meeting, Transmittal Letter, Minutes
4	0066	02.01	267	2/8/1995	Letter	Letter to William C. Spicer, City of Groton, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to comments on the Action Memorandum.	William Spicer City of Groton	Mark Evans U.S. Navy, NorthDiv	Responses to City of Groton comments on the Action Memorandum	DRMO (Site 6)	2	Action Memo, Groton, responses
5	0346	02.01		2/8/1995	Letter	Action Memorandum for the Quay Wall Site	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Quay Wall Site Action Memo	Quay Wall	1	Action Memo, Quay Wall
5	0291	10.01		2/13/1995	Letter	Community Relations Issues	Leo Kay U.S. EPA	Andy Stackpole US Navy Groton, CT	Community Relations Issues		2	Community Relations, Issues
5	0300	01.01		2/14/1995	Letter	Navy Responses to USEPA's Comments dated October 5, 1994 regarding the Background Soils Data Report dated July 1994	Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	Background Soils Data Report-Navy Responses to EPA Comments		3	Soils Data Report, Navy Responses, EPA Comments
5	0304	04.02		2/14/1995	Letter	Applicable or Relevant and Appropriate Requirements (ARARs) for the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Area A Landfill ARARs	Area A Landfill (Site 2)	12	ARAR's, Area A Landfill
5	0307	04.01		2/14/1995	Letter	Navy's Responses to CTDEP Comments dated January 5, 1995 Regarding the Revised Draft FFS for the Area A Landfill	Barry Giroux Atlantic Environmental Services, Inc.	Mark Lewis CTDEP	Revised Draft FFS (Area A Landfill)-Navy's Responses to CTDEP Comments	Area A Landfill (Site 2)	7	Revised Draft FFS, Navy Responses, CTDEP Comments
5	0415	10.05		2/22/1995	Meeting Minutes	Minutes of RAB and Public Meeting on February 22, 1995. Attendees from NSB-NLON, RAB Members, HNUS, NorthDiv, New London Day, COMSUBGRU TWO, USEPA, CTDEP, NAS Weymouth MA, Groton Resident, Ledyard Resident, Mohegan Tribe of Indians of CT.	Matt Cochran HNUS	RAB Members	RAB and Public Meeting Minutes (2-22-95)		20	RAB Meeting, Public Meeting, Minutes
5	0605	01.01		2/23/1995	Memo	Transmittal of the Final Site Inspection Report for Pier 33 and Berth 16/Incinerator	Barry Giroux Atlantic Environmental Services, Inc.	RAB Members	Transmittal of Final Site Inspection Report	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	Final Site Inspection Report, Transmittal, Pier 33, Berth 16, Incinerator

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5	0603	09.01		2/24/1995	Letter	NOAA Comments on the Site Inspection Report, Pier 33 and Berth 16/Former Incinerator	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA	NOAA Comments	Lower Subase Berth 16 (Site 21), Lower Subase Pier 33 (Site 22)	1	NOAA, Comments, Site Inspection, Report, Pier 33, Berth 16, Former Incinerator
4	0067	03.06	129	2/27/1995	Report	Draft Letter Report of Analytical Results of Area A Landfill/Wetland Interface Sampling Event	Halliburton NUS Corporation	Mark Evans U.s. Navy, NorthDiv	Analytical Results for Area A Landfill/ Wetland	Area A Landfill and Area A Wetland (Site 2)	125	Area A Landfill
5	0549	03.01	129	2/28/1995	Memo	Transmittal of Draft Phase II Remedial Investigation Report for comment	Matt Cochran HNUS	RAB Members	Draft Phase II RI-Transmittal of Report		1	Draft Phase II RI, Transmittal, Comment
4	0068	02.06	267	3/1/1995	Report	Action Memorandum For the Defense Reutilization and Marketing Office and the Spent Acid Storage and Disposal Area. Prepared for the Navy, NorthDiv, NAVFAC.	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	DRMO & SASDA Action Memorandum	Defense Reutilization and Marketing Office (DRMO) (Site 6), Spent Acid Storage and Disposal Area (SASDA) (Site 15)	200	Action Memo, DRMO, Spent Acid Storage and Disposal Area
5	0328	01.01		3/1/1995	Letter	Responses to EPA's Comments on the Background Soils Data Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Background Soils Data Report-Responses		1	Background Soils Data Report
5	0305	04.01		3/2/1995	Letter	(USEPA's) Review of the Navy's Responses to EPA Comments on the Revised Draft Focused Feasibility Study for Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Revised Draft Focused Feasibility Study-EPA Review of Navy's Responses to EPA Comments	Area A Landfill (Site 2)	3	Revised Draft Focused Feasibility Study, EPA
5	0532	03.01		3/7/1995	Letter	Sediment Testing in the Thames River	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Thames River Sediment Testing	Thames River	2	Sediment, Testing, Thames
5	0779	03.01		3/8/1995	Letter	USEPA Comments on the Letter Work Plan for the Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Letter Work Plan	Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	3	EPA, Comments, Letter Work Plan, Area A, Landfill/Wetland Interface, Downstream, OBDA
5	0193	06.01	203	3/9/1995	Fax	Draft Meeting Minutes, Concept Review Meeting, Area A Landfill Cap Design, March 9, 1995, Attendees from HNUS, US Navy, TRC, USEPA, Lockheed/ESAT, NorthDiv, HRP Asso., CTDEP	Alan Briggs HNUS	Mark Evans U.S. Navy, NorthDiv	Meeting Minutes (Draft Meeting, Area A Landfill Cap Design Concept Review)-3/9/95	Area A Landfill (Site 2)	5	Meeting Minutes - Landfill Cap Design, Area A
5	0327	03.01		3/14/1995	Letter	Navy Response to EPA Letter Dated October 25, 1994 Regarding the Review of Atlantic Environmental Services Wetland Delineation Area A Report dated July 26, 1994	Dean Gustafson and Barry Giroux Atlantic Environmental Services, Inc.	Kymberlee Keckler U.S. EPA	Wetland Delineation-Navy Responses to EPA Comments on Atlantic Envtls. Review		22	Wetland Delineation, Navy Responses, EPA Comments, Atlantic Envtls.
4	0069	06.02	129	3/15/1995	Report	Final Letter Work Plan for Area A Landfill/Wetland Interface and Downstream/OBDA Sampling	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Area A Landfill/Wetland Interface and Downstream/OBDA Sampling-Final Letter Work Plan	Area A Landfill and Area A Wetland (Site 2)	155	Area A Landfill, Downstream, OBDA, Work Plan
5	0303	04.01		3/15/1995	Letter	USEPA review of the Area A Landfill Proposed Plan	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Proposed Plan EPA Review (Area A Landfill)	Area A Landfill (Site 2)	19	Area A, Proposed Plan, EPA Review
5	0534	03.01		3/15/1995	Fax	Memo: Transmittal of the Final Letter Work Plan for Area A Landfill/Wetland Interface and Downstream OBDA Sampling, responses to EPA comments attached	Matt Cochran HNUS	Patti Lynne Tyler U.S. EPA Kymberlee Keckler U.S. EPA Mark Lewis CTDEP Andrew Stackpole NSB-NLON Mark Evans U.S. Navy, NorthDiv	Final Letter Work Plan Transmittal with EPA Comments	Area A Landfill and Area A Wetland (Site 2), Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	4	Final Letter Work Plan, Area A Landfill/Wetland Interface, Downstream OBDA Sampling, EPA Comments
5	0475	01.02		3/16/1995	Letter	(CTDEP) Comments on the Draft Historical Radiological Assessment	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Historical Radiological Assessment-CTDEP Comments		4	HRA, CTDEP Comments
5	0792	05.01		3/16/1995	Letter	Transmittal for the Action Memorandum for signature for the DRMO and Spent Acid Area	Barry Giroux Atlantic Environmental	Andrew Stackpole NSB-NLON	Transmittal of Action Memo for Signature	Defense Reutilization and Marketing Office, Spent Acid Storage and Disposal Area	1	Transmittal, Action Memorandum, Signature, DRMO, Spent Acid Area
5	0545	03.01		3/17/1995	Memo	Draft Phase II Remedial Investigation Report, concerns about the procedure used to submit the report	L.G. Dominique NSB-NLON	CO U.S. Navy, NorthDiv	Draft Phase II RI, Report Submittal Procedure Concerns		2	Phase II RI, Submittal, Procedure, Concerns
5	0548	03.01	129	3/21/1995	Memo	Transmittal of Omitted Page for the Draft Phase II Remedial Investigation Report	Matt Cochran HNUS	RAB Members	Draft Phase II RI -Omitted Page		1	Draft Phase II RI, Omitted Page
5	0823	03.01		3/24/1995	Report	Pre-draft Methane Emissions Desk-top Study for the Area A Landfill Remedial Design, transmittal letter attached	Jean-Luc Glorieux HNUS	Mark Evans US Navy NorthDiv	Pre-draft Methane Emissions Desk-top Study, Transmittal Letter Attached	Area A Landfill	25	Pre-draft, Methane, Emissions, Desk-top Study, Area A Landfill, Remedial Design
5	0302	04.01		3/30/1995	Letter	CTDEP Comments Regarding Draft Proposed Plan for the Area A Landfill, Installation Restoration Program	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Installation Restoration Prop. Plan-CTDEP Comment	Area A Landfill (Site 2)	8	Installation Restoration
4	0070	01.04		4/1/1995	Report	Preliminary Assessment PA-13-025A-ENV - Supplemental to Initial Assessment Study NEESA 13-025	Naval Facilities Engr. Service Center	U.S. Navy, NorthDiv	Preliminary Assessment (PA-13-025A-ENV)-Supplemental to Initial Assessment Study NEESA 13-025		100	PA-13-025A-ENV, NEESA 13-025, Preliminary Assessment
5	0653	01.02		4/1/1995	Report	Background Concentrations of Inorganics in Soil	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Background Concentrations of Inorganics in Soil		175	Background Concentrations, Inorganics, Soil

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5	0416	10.05		4/5/1995	Meeting Minutes	Minutes of Public Meeting and RAB on April 5, 1995. Attendees from New London, TRC for EPA, HNUS, NSB-NLON, NorthDiv, New London Day, Ledge Light Health District, USEPA, CTDEP, Ledyard Resident, Town of Groton	Matt Cochran HNUS	All Attendees	RAB and Public Meeting Minutes (4-5-95)		11	RAB Meeting, Public Meeting, Minutes
4	0071	03.01	276	4/7/1995	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the Phase II RI Report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA Comments on the Phase II RI Report		25	Phase II, RI Report, EPA Comments
5	0537	03.01		4/7/1995	Letter	EPA Comments on the Phase II Remedial Investigation Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Phase II RI Report-EPA Comments		26	Draft Phase II RI, EPA, Comments
5	0541	09.01		4/17/1995	Fax	Letter: NOAA Comments on the Work Plan for Ecological Sampling	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA	Eco. Sampling Work Plan-NOAA Comments		1	Eco. Sampling, Work Plan, NOAA, Comments
5	0544	03.01		4/18/1995	Memo	Draft Phase II Remedial Investigation Report of February 1995, Response to concerns about the submission of the report	W.A. Waters U.S. Navy, NorthDiv	CO, NSB-NLON	Phase II RI Report Draft, Response to Concerns		1	Phase II RI, Response, Concerns
5	0308	04.01		4/19/1995	Letter	(USEPA's Comments on) Draft Feasibility Study (FS) for the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft FS (Area A Landfill)-EPA Comments	Area A Landfill (Site 2)	5	Draft FS, EPA Comments, Area A
5	0329	03.01		4/21/1995	Letter	Area A Wetland Delineation Report Responses to EPA Comments	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Wetland Delineation Report-Responses to EPA Comments	Area A Wetland (Site 2)	2	Wetland Delineation
5	0533	03.01		4/26/1995	Letter	Work Plan for the Thames River Ecological Sampling	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Thames Rv.-Eco. Sampling Work Plan	Thames River	4	Ecological Sampling Work Plan, Thames Rv.
5	0550	03.01		4/26/1995	E-mail	Follow-up to the outstanding issues on the ecological sampling in the Thames River	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Thames Rv. Ecol. Sampling Issues-Follow Up	Thames River	1	Ecological Sampling, Follow-up, Thames Rv.
5	0073	02.03	129	5/1/1995	Report	Removal Site Evaluation for Quay Wall, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	RSE - Quay Wall	Lower Subase Quaywall	100	RSE, Quay Wall, Removal Site Eval.
5	0074	03.02	129	5/1/1995	Report	Work Plan for Thames River Ecological Sampling, Phase II RI, Naval Subase, New London, Groton, CT	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Thames River Work Plan	Thames River	100	Thames River, Work Plan
5	0075	06.04	203	5/1/1995	Report	Geotechnical Field Investigation Report for Area A Landfill Remedial Design, Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Geotech Report - Area A Landfill	Area A Landfill (Site 2)	400	Geotechnical Field Report, Area A Landfill
5	0655	03.06		5/1/1995	Document	Thames River Sampling, Sample Data and Photo Log	HNUS	N/A	Sampling Data & Photo Log	Thames River	75	Sampling Data, Photo Log, Thames Rv., Sampling
5	0656	03.06		5/1/1995	Document	Downstream/OBDA Taxonomy Sampling and Photo Log, Rounds 1 through 4, March 1995 through June 1995	HNUS	N/A	Taxonomy Sampling and Photo Log	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	200	Taxonomy Sampling, Photo Log, Rounds1-4, Area A, Downstream, OBDA
5	0815	04.04		5/1/1995	Document	Proposed Plan for Area A Landfill	N/A	N/A	Proposed Plan	Area A Landfill	20	Proposed Plan, Area A, Landfill
5	0816	04.04		5/1/1995	Document	Fact Sheet: Installation Restoration Program, Area A Landfill	N/A	N/A	Fact Sheet	Area A Landfill	4	Fact Sheet, Installation, Restoration Program, Area A, Landfill
5	0673	04.03		5/4/1995	Report	Wetland Delineation, Area A	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Wetland Delineation	Area A Wetland (Site 2)	125	Wetland, Delineation, Area A
5	0297	06.01		5/8/1995	Letter	Preliminary Design Issues for the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Preliminary Design Issues (Area A Landfill)	Area A Landfill (Site 2)	3	Preliminary Design Issues, Area A
5	0547	03.01	129	5/10/1995	Memo	Notification of Modification to Final Work Plan for Thames River Ecological Sampling	Matt Cochran HNUS	Kymberlee Keckler USEPA I Patti Lynne Tyler USEPA Kenneth Finkelstein NOAA Mark Lewis CTDEP	Final Work Plan Modification-Thames Rv. Ecological Sampling	Thames River	2	Work Plan, Modifications, Ecological Sampling, Thames River
5	0596	01.01		5/10/1995	Letter	Transmittal of Draft Final Supplement to Initial Assessment Study for CTDEP Review	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Draft Final Supplement Initial Assessment Study Transmittal		1	Draft Final Supplement, Initial Assessment Study, Transmittal, CTDEP Review
5	0212	06.01	203	5/11/1995	Letter	Scope of Work, East End Investigation, Area A Landfill	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler USEPA I Mark Lewis CTDEP	East End Investigation (Area A Landfill)-Scope of Work	Area A Landfill (Site 2)	8	Scope of Work, East End Investigation, Area A
5	0194	06.04	203	5/16/1995	Letter	Area A Landfill 100% Remedial Design Documents	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Kymberlee Keckler U.S. EPA	100% Remedial Design Documents-Area A Landfill	Area A Landfill (Site 2)	2	Remedial Design, Area A Landfill
5	0306	04.01		5/16/1995	Letter	Navy Responses to the CTDEP Comments of March 30, 1995 Regarding the Draft Proposed Plan for Area A Landfill	Barry Gloux Atlantic Environmental Services, Inc.	Mark Lewis CTDEP	Draft Proposed Plan (Area A Landfill)-Navy Responses to CTDEP Comments	Area A Landfill (Site 2)	7	Proposed Plan, Navy Responses, Area A, CTDEP Comments
5	0347	02.01		5/18/1995	Letter	Transmittal Letter for copies of the Removal Site Evaluation for Quay Wall	Matt Cochran HNUS	Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Quay Wall Removal Site Eval.-Transmittal fo Copies	Quay Wall	1	Removal Site Evaluation, Quay Wall

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5	0412	10.05		5/18/1995	Meeting Minutes	Minutes of RAB and Public Meeting on May 18, 1995. Attendees from NSB-NLON, CBRS, NorthDiv, COMSUBGRUTWO, USEPA, CTDEP, RAB Members, USCG Academy, Town of Groton, Groton Resident, BRE	Matt Cochran Brown & Root Environmental	All Attendees	RAB and Public Meeting Minutes (5-18-95)		7	RAB Meeting, Public Meeting, Minutes
5	9072	04.03		5/26/1995	Report	Final Focused Feasibility Study, Area A Landfill, Installation Restoration Program, Naval Submarine Base New London, Groton, Connecticut	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	FFS - Area A Landfill	Area A Landfill (Site 2)	1000	Final Focused Feasibility Study, Area A Landfill
5	0672	04.03		5/31/1995	Report	Addendum to the Focused Feasibility Study, Area A Landfill	Atlantic Environmental Services, Inc.	U.S. Navy, NorthDiv	Addendum to Focused Feasibility Study	Area A Landfill (Site 2)	15	Addendum, Focused Feasibility Study, Area A, Landfill
5	0754	04.01		5/31/1995	Letter	EPA Comments on the Preliminary Draft Addendum to the Focused Feasibility Study for Area A Landfill, includes CTDEP concurrence	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Comments	Area A Landfill	10	EPA Comments, Preliminary Draft Addendum, Focused Feasibility Study, Area A, Landfill, CTDEP Concurrence
5	0195	06.01	203	6/2/1995	Meeting Minutes	Area A Landfill Cap Design, June 2, 1995 Meeting Minutes, Attendees from NorthDiv, Subase, HNUS, EPA I, TRC, CTDEP	James Briggs U.S. Navy, NorthDiv		Meeting Minutes (Areea A Landfill Cap Desing Meeting)-6/2/95	Area A Landfill (Site 2)	2	Meeting Minutes - Landfill Cap Design
5	0474	01.02		6/2/1995	Letter	EPA Recommendations on the Historical Radiological Assessment	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Historical Radiological Assessment-EPA Recommendations		23	HRA, EPA Recommendations
5	0595	01.01		6/21/1995	Letter	EPA comments on the Draft Final Supplemental Initial Assessment Study dated April 1995	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		4	EPA, Comments, Supplemental Initial Assessment Study, Draft Final
5	0076	03.01	276	6/23/1995	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Lewis, CTDEP. Re: Comments on Phase II RI Report.	Mark Lewis CTDEP	Kymberlee Keckler U.S. EPA	CTDEP Comments Phase II RI Report		22	CTDEP Comments, Phase II RI Report, Lewis
5	0526	03.01		6/23/1995	Letter	CTDEP Comments Regarding the Phase II Remedial Investigation	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Phase II RI-CTDEP Comments		22	Phase II RI, CTDEP, Comments
5	0529	03.01		6/26/1995	Letter	Request for Extension of Time for Submittal of CTDEP Comments Regarding Phase II Remedial Investigation Report	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Request for Comment Submittal Time Extension		1	Phase II RI, CTDEP Comments, Request, Submittal Time Extension
5	0530	03.01		6/26/1995	Letter	Correction to CTDEP Comments Regarding the Phase II Remedial Investigation Report	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Phase II RI-Correction to CTDEP Comments		2	Phase II RI, CTDEP, Comments, Corrections
5	0077	03.01	276	6/29/1995	Letter	Meeting Minutes: Brown & Root Environmental (B&R Environmental), June 29, 1995. Scoping Meeting for Phase II RI.	Brown & Root Environmental	U.S. Navy, NorthDiv	B&R Environmental Meeting Minutes		10	Brown & Root Environmental, Meeting Minutes
5	0756	04.01		6/30/1995	Letter	CTDEP comments on Area A Landfill Proposed Plan	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Area A Landfill	3	CTDEP Comments, Area A, Landfill, Proposed Plan
4	0007	01.02		7/1/1995	Report	Final Environmental Impact Statement for Seawolf Class Submarine Homeporting on East Coast of the United States	McGuire Group Inc.	U.S. Navy, NorthDiv	EIS - Seawolf	Thames River	100	EIS, Final EIS, Seawolf
5	0078	01.02	188	7/1/1995	Report	Work Plan for Tank Farm Investigation for Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Tank Farm Investigation Work Plan	Tank Farm (Site 23)	160	Tank Farm, Work Plan
5	0079	04.03		7/1/1995	Report	Work Plan Attachment, Area A Landfill	Naval Facilities Engineering Service Center	U.S. Navy, NorthDiv	Area A Landfill WP Attachment	Area A Landfill (Site 2)	200	Area A Landfill, Work Plan, Attachment
5	0196	06.01	203	7/10/1995	Letter	(EPA comments on) 100% Remedial Design for Area A landfill at NSB Groton, CT	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Remedial Design Documents	Area A Landfill (Site 2)	8	Remedial Design, EPA Comments
5	0755	04.01		7/10/1995	Letter	EPA additional comments on the Addendum to the Focused Feasibility Study for Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Additional Comments	Area A Landfill	2	EPA, Additional Comments, Addendum, Focused Feasibility Study, Area A, Landfill
5	0080	03.02	129	7/11/1995	Report	Letter Work Plan for Goss Cove Landfill Site, Phase II RI	Brown & Root Environmental	U.S. Navy, NorthDiv	Goss Cove Landfill Site-Work Plan for Phase II RI	Goss Cove Landfill (Site 8)	200	Goss Cove, Work Plan, Phase II RI
5	0211	06.01		7/11/1995	Letter	Scope of Work for Investigating the Eastern End of the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	East End Investigation Scope of Work	Area A Landfill (Site 2)	2	East End Investigation, Scope of Work
5	0543	03.01		7/13/1995	Meeting Minutes	Draft Minutes to the June 29, 1995 Phase II Remedial Investigation Scoping Meeting w/transmittal memo Attendees from EPA, TRC, CTDEP, NSB-NLON, Navy, HNUS	Matt Cochran HNUS	Attendees	Phase II RI Scoping Meeting Draft Minutes		10	Phase II RI, Scoping Meeting, Draft Minutes
5	0753	05.01		7/13/1995	Letter	EPA comments on the Record of Decision for a remedial action at Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Comments	Area A Landfill	60	EPA, Comments, Record of Decision, Remedial Action, Area A, Landfill
5	0501	01.01		7/14/1995	Letter	Transmittal of Final Work Plan for Fuel Farm UST Investigation	Brian Helland U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis & Scott Deshefy CTDEP	Final UST Investigation Work Plan Transmittal (Fuel Farm)	Tank Farm (Site 23)	2	UST Investigation, Final Work Plan, Fuel Farm, Transmittal

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5	0531	03.01		7/19/1995	Letter	Follow-up to the June 29, 1995 Meeting regarding the Draft Phase II Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Phase II RI 6-29-95 Meeting Follow-up		3	Draft Phase II RI, Meeting, Follow-up
5	0081	03.01	276	7/27/1995	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Navy's responses to U.S. EPA comments on the Draft Phase II RI Report.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy response to EPA comments on the Draft Phase II RI Report		42	Draft Phase II, RI Report, Navy, EPA
5	0528	03.01		7/27/1995	Letter	Navy's Responses to EPA's comments on the Draft Phase II Remedial Investigation Report	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Phase II RI-Navy Responses to EPA Comments		52	Draft Phase II RI, Navy, Responses, EPA, Comments
5	0484	01.01		8/1/1995	Document	Telephone Conversation Record: Cleanup Standards for NSB-NLON	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Cleanup Standards for NSB-NLON (via Telephone Conversation Record)		1	NSB-NLON, Cleanup Standards
5	0659	02.03		8/1/1995	Report	Post-Removal Action for Waste Oil Tank No. 5	HNUS	U.S. Navy, NorthDiv	Post-Removal Action	Oily Wastewater Tank (OT-5) (Site 9)	200	Post-Removal Action, Waste Oil, Tank #5
5	0082	03.01	276	8/3/1995	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Proposed Risk Assessment Exposure Scenarios and Input Parameters, Draft Final Phase II RI.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Proposed Risk Assessment Exposure Scenarios and Input Parameters, Draft Final Phase II RI		30	Exposure Scenarios, Input Parameters, Phase II RI
5	0513	03.01		8/3/1995	Letter	Proposed Risk Assessment Exposure Scenarios and Input Parameters Draft Final Phase II RI for review	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Draft Final Phase II RI-Proposed RA Exposure Scenarios and Input Parameters		58	Phase II RI, Draft Final, RA Exposure Scenerios, Input Parameters
5	0083	01.02	129	8/11/1995	Report	Sampling within Thames River & Goss Cove and Subsequent Analysis of Samples	Brown & Root Environmental	U.S. Navy, NorthDiv	Thames River & Goss Cove Sampling and Analysis	Goss Cove Landfill (Site 8), Thames River	95	Thames River, Goss Cove, Sampling
5	0527	03.01		8/11/1995	Letter	CTDEP Comments Regarding the Proposed Risk Assessment Exposure Scenarios and Input Parameters for the Draft Final Phase II RI (No comments)	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed RA Exposure Scenarios and Input Parameters-CTDEP Comments		1	RA Exposure Scenarios, Input Parameters, CTDEP, Comments
5	0411	10.05		8/16/1995	Meeting Minutes	Minutes of RAB and Public Meeting on August 16, 1995. Attendees from NSB-NLON, NorthDiv, COMSUBGRUTWO, USEPA, RAB Members, Groton Resident, BRE	Matt Cochran Brown & Root Environmental	All Attendees	RAB and Public Meeting Minutes (8-16-95)		29	RAB Meeting, Public Meeting, Minutes
5	0473	01.02		8/18/1995	Letter	Navy Responses to CTDEP comments on the Draft Historical Radiological Assessment	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Historical Radiological Assessment-Navy Responses		14	HRA, Navy Responses
5	0488	01.01		8/31/1995	Letter	Transmittal of the Final Report of Sludge Disposal from Waste Oil Tank #5	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Waste Oil Tank #5 Sludge Disposal Final Report-Transmittal	Oily Wastewater Tank (OT-5) (Site 9)	1	Tank #5, Sludge Disposal, Final Report
5	0085		188	9/1/1995	Report	Work Plan Addendum for Tank Farm Investigation for Naval Submarine Base - New London, Groton, Connecticut	Halliburton NUS Corporation	U.S. Navy, NorthDiv	Tank Farm - Work Plan Addendum	Tank Farm	90	Work Plan Addendum, Tank Farm
5	0086	06.04	203	9/5/1995	Report	Draft Groundwater/Leachate Modeling Study Letter Work Plan Area A Landfill Design	Brown & Root Environmental	U.S. Navy, NorthDiv	Groundwater/Leachate Modeling Study, Area A Landfill Design Work Plan	Area A Landfill	30	Area A Landfill, Groundwater, Modeling
5	0525	03.01		9/5/1995	Letter	EPA Comments on the Human Health Risk Assessment Exposure Scenarios	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Human Health RA Exposure Scenarios-EPA Comments		7	Human Health RA, Exposure Scenerios, EPA, Comments
5	0087	03.01	276	9/6/1995	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Review of Navy responses to comments on the Draft Phase II RI.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA review of Navy responses to comments on the Draft Phase II RI		10	Draft Phase II RI, EPA review, Navy responses
5	0088	06.05		9/6/1995	Report	Final Report for Interim Remedial Action, Site 6, Naval Submarine Base - New London, Groton, Connecticut	OHM Remediation Services Corporation	U.S. Navy, NorthDiv	DRMO RA Final Report	Defense Reutilization and Marketing Office (DRMO) (Site 6)	500	Interim Remedial Action, Final Report
5	0089	06.05		9/6/1995	Report	Final Report for Soil Remediation, Spent Acid Storage and Disposal Area, Naval Submarine Base - New London, Groton, Connecticut	OHM Remediation Services Corporation	U.S. Navy, NorthDiv	SASDA RA Final Report	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	100	Soil Remediation, Spent Acid Storage and Disposal Area
5	0522	03.01		9/6/1995	Letter	EPA's Review of Navy Responses to EPA Comments on the Draft Phase II Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Phase II RI-EPA Review of Navy Responses to Comments		6	Draft Phase II RI, EPA Review, Navy Responses
5	0090	03.01	276	9/11/1995	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Navy response to comments on the Draft Phase II RI Report.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy response to CTDEP comments on the Draft Phase II RI Report		40	Draft Phase II RI Report, Navy, CTDEP
5	0536	03.01		9/11/1995	Letter	Navy Response to CTDEP Comments on the Draft Phase II Remedial Investigation Report	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Phase II RI-Navy Response to CTEDP Comments		41	Draft Phase II RI, Navy Responses, CTDEP, Comments
5	0360	06.01		9/14/1995	Letter	Transmittal for Final Report, Site 15, Spent Acid Storage and Disposal Site	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	SASDA Final Report Transmittal (Site 15)	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	SASDA, Final Report, Site 15

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5	0784	06.01		9/14/1995	Letter	Transmittal for the Final Report for the Removal Action at the Defense Reutilization and Marketing Office	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Transmittal of the Final Report for the Removal Action	Defense Reutilization Marketing Office	1	Transmittall, Final Report, Removal Action, Defense Reutilization, Marketing Office
5	0524	03.01	129	9/15/1995	Memo	Transmittal of the Draft Problem Formulation/Conceptual Model Development Report for the Draft Final Phase II RI Ecological Risk Assessment	Matt Cochran Brown & Root Environmental	Patti Lynne Tyler U.S. EPA Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Document Transmittal		1	Problem Formulation/Conceptual Model Development , Phase II RI, Eco. RA, Transmittal
5	0091	03.04	129	9/19/1995	Report	Preliminary Data From Area A Downstream Watercourses and Thames River Sampling Events	Brown & Root Environmental	U.S. Navy, NorthDiv	Area A Downstream Watercourses & Thames River Samples-Preliminary Data	Area A Downstream Water Courses (Site 3), Thames River	100	Area A, Dowstream Watercourses, Thames Rv., Preliminary Data
5	0500	01.01		9/25/1995	Letter	Transmittal of an Addendum to the Work Plan for the Investigation of the Tank Farm	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Transmittal of Work Plan Addendum-Fuel Farm	Tank Farm (Site 23)	2	Addendum, Work Plan, Fuel Farm
5	0084	05.02		9/26/1995	Report	Record of Decision for the Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut	US Navy, NorthDiv USEPA	U.S. EPA CTDEP	Area A Landfill ROD	Area A Landfill (Site 2)	75	Record of Decision, Area A Landfill
5	0697	04.01		9/29/1995	Letter	Letter: to Andrew Stackpole, NSB-NLON, from Carole Hossom, Division of Health Assessment and Consultation, ATSDR. Re: Air sampling.	Carole Hossom ATSDR	Andrew Stackpole NSB-NLON	Air Sampling-Letter to Andrew Stackpole from Carole Hossom		8	Letter, Air Sampling, Stackpole, Hossom
5	0165	06.01	203	10/4/1995	Meeting Minutes	Minutes of meeting with USEPA and CTDEP, Area A Landfill Design, September 27, 1995	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	USEPA and CTDEP Meeting Minutes -Area A Landfill Design		4	Meeting Minutes 9-27-95, USEPA and CTDEP, Area A
5	0169	06.02	203	10/5/1995	Letter	Letter Work Plan Addendum, Groundwater/Leachate Modeling Study, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Work Plan Addendum for GW/Leachate Modeling Study (Area A)	Area A Landfill (Site 2)	2	Work Plan Addendum, Area A, Groundwater/ Leachate Modeling Study
5	0171	06.02	203	10/5/1995	Report	Letter Work Plan Addendum, Groundwater/Leachate Modeling Study, Area A Landfill Remedial Design Including Figure 3-1 Data Point and Cross-Section Location Map (Oversized)	Jean-Luc Glorieux Brown & Root Environmental	Brown & Root Environmental	Work Plan Addendum Including Fig. 3-1 for GW/Leachate Modeling Study (Area A)	Area A Landfill (Site 2)	20	Work Plan Addendum, Fig 3-1, Area A
5	0177	06.02		10/16/1995	Letter	Area A Landfill Remedial design - Leachate Modeling Study Work Plan (Comments)	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Area A Leachate Modeling Study Plan	Area A Landfill (Site 2)	7	EPA Comments, Area A, Leachate
5	0523	06.01		10/16/1995	Letter	Copy (not on letterhead) of EPA's Comments on the Area A Landfill Remedial Design, Leachate Modeling Study Work Plan	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Copy of EPA Comments on Area A Landfill Leachate Modeling Study Work Plan	Area A Landfill	7	Leachate Modeling Study Work Plan, Area A Landfill, EPA
5	0166	06.02	203	10/19/1995	Letter	Corrected Table for Work Plan Addendum Groundwater/Leachate Modeling Study, Area A Landfill Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Groundwater/Leachate Modeling Study (Area A)-Corrected Table for Work Plan Addendum	Area A Landfill (Site 2)	11	Corrected Table, Work Plan Addendum, Area A
5	0167	06.01	203	10/19/1995	Letter	Responses to USEPA's comments on 100% Design Document, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Lewis CTDEP	Area A Landfill Remedial Design-Responses to EPA Comments on 100% Design Document	Area A Landfill (Site 2)	1	Area A 100% Design Document, Responses
5	0197	06.01	203	10/19/1995	Letter	(BRE) Responses to USEPA's Comments on 100% Design Document, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	BRE Responses to EPA Comments on 100% Design Document	Area A Landfill (Site 2)	1	BRE, Comments, 100% Design Document, Area A
5	0510	01.01		10/19/1995	Letter	EPA's Review of the Ecological Risk Assessment Problem Formulation and Conceptual Models Report dated September 1995	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Ecological RA Problem Formulation and Conceptual Models Report-EPA Review		6	Ecological RA, Report, EPA Review
5	0511	03.01		10/19/1995	Letter	October 25, 1995 Phase II Remedial Investigation Scoping Meeting Topics	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Phase II RI-Scoping Meeting Topics		56	Phase II RI, Meeting Topics
5	0824	03.04	129	10/20/1995	Report	Letter Report for Sampling Activities at the Goss Cove Landfill Nautilus Museum (2 copies)	Brown & Root Environmental	U.S. Navy, NorthDiv	Report for Sampling Activities	Goss Cove Landfill (Site 8)	15	Report, Sampling Activities, Goss Cove Landfill, Nautilus Museum
5	0092	03.01	276	10/25/1995	Letter	Meeting Minutes: B&R Environmental, October 25, 1995. Scoping Meeting for Phase II RI.	Brown & Root Environmental	U.S. Navy, NorthDiv	B&R Environmental Meeting Minutes		10	Meeting Minutes
5	0168	06.02	203	10/25/1995	Letter	Field Investigation Modifications, Groundwater/Leachate Modeling System Study, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Field Investigation Modifications, GW/Leachate Modeling System Study	Area A Landfill (Site 2)	4	Field Investigation Modifications, Area A
5	0410	10.05		11/8/1995	Meeting Minutes	Minutes of RAB and Public Meeting on November 8, 1995. Attendees from NSB-NLON, NorthDiv, COMSUBGRUTWO, USEPA, CTDEP, RAB Members, Groton Resident, BRE	Matt Cochran Brown & Root Environmental	All Attendees	RAB and Public Meeting Minutes (11-8-95)		11	RAB Meeting, Public Meeting, Minutes

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5	0175	06.01	203	11/17/1995	Letter	Responses to USEPA's Comments on Letter Work Plan Addendum, Groundwater/Leachate Modeling Study, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Responses to EPA Comments on Work Plan Addendum for GW/Leachate Study (Area A)	Area A Landfill (Site 2)	2	Responses, EPA Comments, Work Plan Addendum
5	0176	06.01	203	11/17/1995	Letter	Responses to USEPA's Comments on Letter Work Plan Addendum, Groundwater/Leachate Modeling Study, Area A Landfill Remedial Design w/attachment RE: BRE Responses to EPA's 10/16/95 Comments	Jean-Luc Glorieux Brown & Root Environmental	M. Evans U.S. Navy, NorthDiv	Responses to EPA Comments on Work Plan Addendum for GW/Leachate Study (Area A) with BRE Attachment	Area A Landfill (Site 2)	11	Responses, EPA Comments, Work Plan Addendum, BRE Attachments
5	0093	06.04	203	12/1/1995	Report	Area A East End Investigation Report for Area A Landfill Remedial Design	Brown & Root Environmental	U.S. Navy, NorthDiv	Area A East End Report for Landfill Remediation Design	Area A Landfill (Site 2)	400	Area A, East End, Remediation
5	0170	06.04	203	12/21/1995	Letter	Preliminary Information Package, Groundwater/Leachate Modeling Study, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Preliminary Informaiton Package for GW/Leachate Modeling Study (Area A)	Area A Landfill (Site 2)	2	Preliminary Information Package, Area A
6	0178	06.01		1/19/1996	Letter	(EPA Comments on) Preliminary Information Package for the Groundwater/Leachate Modeling Study as part of the Area A Landfill Remedial Design	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Preliminary Information Package for GW/Leachate Modeling Study	Area A Landfill (Site 2)	3	EPA Comments, Preliminary Info. Package
6	0179	06.01		1/22/1996	Letter	(EPA's unresolved comments re:) Responses to EPA's October 16, 1995 Letter of Comments on Letter Work Plan and Letter Work Plan Addendum for Groundwater/Leachate Modeling Study for the Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA's Unresolved Comments from Responses to their 10/16/95 Comments	Area A Landfill (Site 2)	4	Unresolved EPA Comments
6	0210	06.01		1/22/1996	Letter	Review of Eastern End Investigation Report for the Area A Landfill Remedial Design	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Review of East End Investigation Report	Area A Landfill (Site 2)	4	East End Investigation, EPA
6	0745	08.01		1/24/1996	Letter	Navy (Norfolk) comments on the ATSDR Activity Report for Navy installations	WE Luttrell US Navy, EHC	CO, NSB-NLON	Navy Comments		2	Navy Comments, ATSDR, Activity Report
6	0583	07.01		1/25/1996	Letter	Request for Extension of Deadlines in Appendix IV of the Federal Facilities Agreement	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Request for Extension of Deadlines		2	Extension of Deadlines, Request, Federal Facilities Agreement, Appendix IV
6	0173	06.01	203	1/31/1996	Meeting Minutes	EPA Meeting Minutes RE: Model Overview, In attendance: Kymberlee Keckler (USEPA I), Dave Weiss (TRC), J.D. Chiou (BRE), Al Briggs (BRE), Mark Evans (US Navy NorthDiv), Mark Lewis (CTDEP), Jean Choi (USEPA I), Jeff Dale (US Navy NorthDiv); with attachment "Groundwater/Leachate Modeling Study for the Area A Landfill - proposed Modeling Approach and Preliminary Results."	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	EPA Model Overview Meeting Minutes with GW/Leachate Modeling Study (Area A) Attachment	Area A Landfill (Site 2)	4	EPA Meeting Minutes, Model Overview, GW/Leachate Modeling Study (Area A) Attachment
6	0582	07.01		2/7/1996	Letter	EPA's reply to Navy Request dated January 25, 1996 to extend deadlines on the Federal Facilities Agreement	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Reply to Navy Request for Extension of Deadlines		2	EPA, Reply, Extension of Deadlines, Navy, Request, Federal Facilities Agreement, Appendix IV
6	0817	03.01		2/15/1996	Letter	CTDEP Comments on the Area A East End Investigation Report for Area A Landfill Remedial Design	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Area A Landfill	3	CTDEP, Comments, Area A, East End Investigation, Area A, Landfill, Remedial Design
6	0464	10.05		2/21/1996	Meeting Minutes	Minutes, Attendance Sheet and Attachments for February 21, 1996 RAB Meeting. Attendees from NSB-NLON, COMSUBGRUTWO, USEPA, CTDEP, RAB Members, Groton Resident, BRE	Matt Cochran Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, Attachments, (2-21-96)		17	RAB Meeting, Minutes, Attachments, Attendance Sheet.
6	0209	06.01		2/29/1996	Letter	Responses to USEPA's January 22, 1996 comments Regarding the Draft Area A East End Investigation Report	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler USEPA I	East End Investigation Report-Navy Responses to EPA Comments	Area A Landfill (Site 2)	6	East End Investigation, Navy Responses
6	0094	01.02		3/1/1996	Report	Site Specific Report SSR-2205-ENV - Site Characterization and Analysis Penetrometer System (Appendices)	Naval Facilities Engineering Service Center	U.S. Navy, NorthDiv	Site Specific Report-SSR-2205-ENV	Tank Farm (Site 23)	200	SSR-2205-ENV, Penetrometer System
6	0636	03.01		3/1/1996	Report	Phase II Remedial Investigation, Transmittal Memorandum and Responses to Comments	Brown & Root Environmental	U.S. Navy, NorthDiv	Phase II RI-Memo Transmittal and Responses to Comments		200	Phase II RI, Memorandum, Transmittal, Responses, Comments
6	0671	01.02		3/1/1996	Report	Site Characterization and Analysis Penetrometer System, Site Specific Report	NFESC	U.S. Navy, NorthDiv	Site Characterization and Analysis Penetrometer Syste, Site Specific Report		75	Site Characterization, Analysis, Penetrometer System, Site Specific
6	0479	03.01		3/6/1996	Letter	Navy Responses to EPA's comments on the Draft Historical Radiological Assessment w/attachments: Building 174 Release Report, Copy of E G & G Report, PNS Aerial Radiation Survey	J. Tarpey Portsmouth Naval Shipyard	Kymberlee Keckler U.S. EPA	Historical Radiological Assessment (w/Attachments)-Navy Responses to EPA Comments	Building Lower Subase-Central Paint Accumulation Area (Building 174) (Site 24)	72	Historical Radiological Assessment, Attachments, Navy Responses, EPA Comments

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6	0174	06.01	203	3/15/1996	Letter	Draft Groundwater/Leachate Modeling Study Report, Area A Landfill Design	Jean-Luc Glorieux Brown & Root Environmental	M. Evans U.S. Navy, NorthDiv K. Keckler, U.S. EPA	GW/Leachate Modeling Study Report Draft (Area A)		1	GW/Leachate Report, Draft, Area A
6	0208	06.01		3/22/1996	Letter	Responses to CTDEP's February 15, 1996 Comments Regarding the Draft Area A East End Investigation Report	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	East End Invetsigation Draft Report-CTDEP Comments	Area A Landfill (Site 2)	4	East End Draft Report, CTDEP Comments
6	0499	01.01		4/4/1996	Letter	Transmittal of the Draft Site Investigation Report for Fuel Farm for Review	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy & Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Draft Site Investigation Report Transmittal	Tank Farm (Site 23)	1	Site Investigation Report, Transmittal, Fuel Farm
6	0465	03.01		4/15/1996	Letter	Draft No Further Action Decision Document for the Construction Battalion Drum Storage Area for Review	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP	No Further Action Decision Document	Construction Battalion Unit (CBU) Drum Storage Area	16	No Further Action Decision, Document
6	0172	06.01	203	4/24/1996	Letter	(EPA) Comments on Area A Landfill Groundwater/Leachate Modeling Study Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	GW/Leachate Modeling Study Report-EPA Comments (Area A)	Area A Landfill (Site 2)	4	EPA, Area A, GW/Leachate
6	0095	03.01	276	4/25/1996	Letter	Letter to Kymberlee Keckler, U.S. EPA, and Diana Bartlett, Navy NorthDiv NAVFAC, from Kenneth Finkelstein, NOAA, Re: Responses to Phase II RI Report.	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA Diana Bartlett- Navy NorthDiv NAVFAC	NOAA responses to Phase II RI Report		8	NOAA, Phase II RI Report
6	0514	09.01		4/26/1996	Fax	NOAA Comments on the Phase II Remedial Investigation	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA Diana Bartlett U.S. Navy, NorthDiv	Phase II RI-NOAA Comments		8	Phase II RI, NOAA, Comments
6	0207	06.01	203	4/29/1996	E-mail	East End Investigation Comments	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	East End Investigation-EPA Comments	Area A Landfill (Site 2)	1	East End Investigation, EPA
6	0466	03.01		5/8/1996	Letter	(CTDEP) Comments on the No Further Action Decision Document for the Construction Battalion Unit Drum Storage Area	Mark Lewis CTDEP	Kymberlee Keckler U.S. EPA Mark Evans U.S. Navy, NorthDiv	No Further Action Decision Document-CTDEP Comments	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)	34	No Further Action Decision, Document, Comments
6	0181	06.01	203	5/14/1996	Letter	(CTDEP) Comments Regarding Groundwater/Leachate Modeling Study Report for the Area A Landfill Remedial Design	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments on GW/Leachate Modeling Study Report (Area A)	Area A Landfill (Site 2)	7	CTDEP Comments, Modeling Study
6	0478	01.02		5/20/1996	Letter	EPA's Response to Navy's Response of EPA's letter dated June 2, 1995 Regarding the Historical Radiological Assessment	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Historical Radiological Assessment-Navy Responses to EPA Comments		2	Historical Radiological Assessment, Navy Responses
6	0517	03.01		5/23/1996	Letter	EPA Comments on the Draft Final Phase II Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Phase II RI-EPA Comments		19	Phase II RI, EPA, Comments
6	0664	01.02		5/24/1996	Report	Closure Report for UST Removal Action, Waste Oil Tank #5	OHM Remediation	U.S. Navy, NorthDiv	Closure Report for UST Removal Action	Oily Wastewater Tank (OT-5) (Site 9)	300	Closure Report, UST, Removal Action, Waste Oil, Tank #5
6	0180	06.01	203	5/28/1996	Letter	(NorthDiv) Final Responses to EPA's comments of April 24, 1996 on the Draft Area A Landfill Groundwater/Leachate Modeling Study Report	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Final Navy Responses to EPA 4/24/96 Comments on GW/Leachate Modeling Study	Area A Landfill (Site 2)	8	Final Responses, Navy, NorthDiv, EPA Comments
6	0182	06.01	203	6/5/1996	Letter	Responses to CTDEP's May 14, 1996 Letter of Comments on Draft Groundwater/Leachate Modeling Study Report, Area A Landfill Remedial Design	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Responses to CTDEP Comments of 5/14/96 on GW/Leachate Modeling Study Report Draft	Area A Landfill (Site 2)	4	Responses, CTDEP Comments,
6	0578	07.01		6/7/1996	Letter	Request for Extension of Deadlines in Appendix IV of the Federal Facilities Agreement	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Request for Extension of Deadlines		2	Extension of Deadlines, Request, Federal Facilities Agreement, Appendix IV
6	0515	03.01		6/21/1996	Letter	CTDEP Comments Regarding the Phase II Remedial Investigation	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Phase II RI-CTDEP Comments		8	Phase II RI, CTDEP, Comments
6	0483	01.01		6/24/1996	Letter	Transmittal of OHM report Underground Storage Tank Closure, Waste Oil Tank #5	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	OHM Report-Transmittal	Oily Wastewater Tank (OT-5) (Site 9)	1	OHM Report, Tansmittal
6	0096	01.02	129	6/25/1996	Report	Final Site Characterization Report for OT-10, Building 325, and Building 89, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	OT-10 - Final Site Characterization	Tank Farm (Site 23), Torpedo Shops (Site 7), Lower Subase	195	OT -10, Final Site Characterization
6	0183	06.01	203	7/1/1996	Letter	(EPA response to) Navy Responses to EPA Comments on the Area A Landfill Groundwater/Leachate Modeling Study Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Responses to Navy Responses to EPA Comments on GW/Leachate Report	Area A Landfill (Site 2)	2	EPA Responses, GW/Leachate Modeling Report
6	0637	03.01		7/1/1996	Report	Responses to Comments on Draft Final Phase II Remedial Investigation	Brown & Root Environmental	U.S. Navy, NorthDiv	Responses to Comments		100	Responses, Comments, Draft Final, Phase II RI

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6	0461	10.05		7/3/1996	Meeting Minutes	Minutes, Attendance Sheet, Attachment and Transmittal of May 15, 1996 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, COMSUBRUTWO, CTDEP, RAB Members w/transmittal letter	Suzanne Berkman NSB-NLON	RAB Members	RAB Meeting Minutes, Attendance Sheet, Attachments, and Transmittal (5-15-96)		8	RAB Meeting, Minutes, Attachments, Attendance Sheet, and Transmittal
6	0581	07.01		7/15/1996	Letter	CTDEP's reply to request dated June 7, 1996 for extension of deadlines in Appendix IV of Federal Facilities Agreement	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Reply to Request for Deadline Extension		1	CTDEP, Reply, Extension of Deadlines, Request, Federal Facilities Agreement, Appendix IV
6	0665	06.04		7/15/1996	Report	Start Up Report for Sparge and Vent Remediation Systems at Dolphin Mart and Naval Exchange (NEX)	OHM Remediation	U.S. Navy, NorthDiv	Start Up Report for Sparge and Vent Remediation Systems	NEX, Dolphin Mart	700	Start-up Report, Sparge, Vent, Remediation Systems, Dolphin Mart, Naval Exchange
6	0467	03.01		7/18/1996	Memo	Transmittal of No Further Action Decision Document for the Former Construction Battalion Unit Drum Storage Area for signature	A.E. Haring U.S. Navy, NorthDiv	Andrew Stackpole NSB-NLON	No Further Action Decision Document-Transmittal for Signature	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)	1	No Further Action Decision, Document, Transmittal, Signature
6	0468	03.07		7/18/1996	Report	(Unsigned) No Further Action Decision Document for the Construction battalion Unit Drum Storage Area dated July 1996	N/A	N/A	No Further Action Decision Document-Unsigned	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)	15	No Further Action Decision, Document, Unsigned
6	0818	04.01		7/18/1996	Letter	Navy Comments on the No Further Action Decision Document for the Construction Battalion Unit Drum Storage Area	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Navy Comments	Construction Battalion	3	Navy, Comments, No Further Action, Decision Document, Construction Battalion Unit, Drum Storage Area
6	0498	01.01		7/25/1996	Letter	Confirmation of Verbal Approval of the findings and recommendations of the Draft Site Investigation Report for the Fuel Farm	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Draft Site Investigation-Confirmation of Verbal Approval of Findings & Recommendations	Tank Farm (Site 23)	2	Site Investigation, Confirmation, Findings, Recommendations
6	0097	01.02		8/1/1996	Report	Site Specific Report SSR-2205-ENV - Site Characterization and Analysis Penetrometer System (Text)	Naval Facilities Engineering Service Center	U.S. Navy, NorthDiv	Site Specific Report-SSR-2205-ENV	Tank Farm (Site 23)	15	SSR-2205-ENV, Penetrometer System
6	0646	06.05	267	8/1/1996	Report	Draft Groundwater Monitoring Plan for Defense Reutilization and Marketing Office	Brown & Root Environmental	U.S. Navy, NorthDiv	Goundwater Monitoring Plan Draft	Defense Reutilization and Marketing Office (DRMO) (Site 6)	350	Groundwater Monitoring, Draft Plan, Defense Reutilization, Marketing Office
6	0184	06.01	203	8/2/1996	Letter	(Navy) Responses to EPA Letter of July 1, 1996 on the Area A Landfill Groundwater/Leachate Modeling Study	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Responses to EPA's 7/1/96 Response Letter on GW/Leachate Modeling Report	Area A Landfill (Site 2)	5	Navy Responses, GW/Leachate Modeling Report
6	0516	03.01		8/26/1996	Document	Typed Notes and Attachments: Information to clarify issues on Human Health Risks Calcs for the CBU Drum Storage Area in the Phase II RI	Matt Cochran Brown & Root Environmental	Kymberlee Keckler U.S. EPA Mark Evans U.S. Navy, NorthDiv	Notes and Attachments-Human Health Risk Calculations clarification	Construction Battalion Unit (CBU) Drum Storage Area (Site 1)	14	Human Health Risk Calculations, Issues, Clarifications, Notes
6	0185	06.01	203	9/5/1996	Letter	(EPA response to Navy response on) Responses to EPA Comments on the Area A Landfill Groundwater/Leachate Modeling Study Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Response to Navy's 8/2/96 Response Letter on GW/Leachate Modeling Report	Area A Landfill (Site 2)	4	EPA Responses, GW/Leachate Modeling Report
6	0512	03.01	129	9/6/1996	Memo	Resolution Meeting (Minutes and Agenda)/Responses to Comments (EPA, CTDEP, NOAA) for the Draft Final Phase II RI Report	Matt Cochran Brown & Root Environmental	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP Kenneth Finkelstein NOAA	Draft Final Phase II RI Report-Resolution Meeting Minutes and Agenda & Responses to Comments		97	Phase II RI Report, Draft Final, Resolution Meeting, Minutes, Responses to Comments
6	0186	06.01	203	9/17/1996	Letter	(Navy) Preliminary Responses to EPA comments on the Area A Landfill Groundwater/Leachate Modeling Study Report	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Preliminary Navy Responses to EPA Comments on GW/Leachate Modeling Report (Area A)	Area A Landfill (Site 2)	2	Preliminary Navy Responses, GW/ Leachate Report
6	0191	06.01	203	9/22/1996	Letter	(CTDEP responses to) Navy Responses to State Comments Regarding Draft Groundwater Monitoring Plan for Area A Landfill	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Responses to Navy Responses to State comments-Draft GW Monitoring Plan-Area A	Area A Landfill (Site 2)	4	CTDEP Comments, GW Monitoring Plan
6	0187	06.01	203	9/23/1996	Fax	Minutes of September 18, 1996 Meeting, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	9/18/96 Meeting Minutes (Area A Landfill Remedial Design)	Area A Landfill (Site 2)	5	Meeting Minutes, 9/18/96, Area A Landfill
6	0198	06.01	203	9/23/1996	Meeting Minutes	Minutes of September 18, 1996 Meeting, Area A Landfill Remedial Design, Attendees included NorthDiv Env, NorthDiv Civil, NSB-NLON, USEPA I, TRC, CTDEP, Foster Wheeler, BRE	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Meeting Minutes (Area A Landfill Remedial Design)-9/18/96	Area A Landfill (Site 2)	6	Meeting Minutes - Landfill Remedial Design
6	0579	07.01		9/25/1996	Letter	Federal Facilities Agreement Schedule	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Federal Facilities Agreement Schedule		2	Federal Facilities Agreement, Schedule

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6	0580	07.01		9/25/1996	Letter	Request for Extension of Deadlines in Appendix IV of the Federal Facilities Agreement	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Request for Extension of Deadlines		2	Extension of Deadlines, Request, Federal Facilities Agreement, Appendix IV
6	0188	06.01	203	9/27/1996	Letter	Remedial Design of the Area A Landfill at the Naval Submarine Base in Groton, CT (EPA's outstanding issues)	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA's Outstanding Issues with the Remedial Design of Area A Landfill	Area A Landfill (Site 2)	6	Outstanding EPA Issues, Area A, Remedial Design
6	0820	06.01		9/27/1996	Letter	EPA Comments on the Remedial Design of the Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Area A Landfill, Site 2	6	EPA, Comments, Remedial Design, Area A, Landfill
6	0098	06.04	203	10/1/1996	Report	Groundwater/Leachate Modeling Study Report, Area A Landfill Remedial Design, Naval Submarine Base - New London, Groton, Connecticut Volumes I, II, III	Brown & Root Environmental	U.S. Navy, NorthDiv	GW/Leachate Modeling Report - Area A Landfill	Area A Landfill (Site 2)	1000	Area A, Landfill Rmedial Design, Groundwater, Leachate
6	0799	06.01		10/1/1996	Letter	EPA Comments on the Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office dated August 1996	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office, Site 6	6	EPA, Comments, Groundwater Monitoring Plan, Defense Reutilization, Marketing Office
6	0472	01.02		10/21/1996	Letter	Revisions to the Draft Historical Radiological Assessment	J.A. Brann Portsmouth Naval Shipyard	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Draft Historical Radiological Assessment-Revisions		2	Historical Radiological Assessment, Revisions
6	0593	01.01		10/21/1996	Letter	CTDEP Statement of Status of Navy's Groundwater Classification Request	Randy May CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Statement of Status of Navy's Groundwater Classificaton Request		4	CTDEP, Statement of Status, Navy, Groundwater, Classification, Request
6	0387	06.01		10/23/1996	Fax	Letter: Explanation of need for Additional Remedial Action at the Spent Acid Storage and Disposal Area	Christine Lacas CTDEP	Mary Sanderson U.S. EPA	Explanation of need for Additional Remedial Action-SASDA	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	3	Remedial Action, SASDA
6	0698	04.01		10/23/1996	Meeting Minutes	Meeting Minutes: Mark Evans, Navy NorthDiv NAVFAC; Andrew Stackpole, NSB-NLON; Kymberlee Keckler and Patti Tyler, U.S. EPA; Tracy Lott and Mark Lewis, CTDEP; Jennifer Hayes and Ray Bhumgara, GF, Corey Rich, Bill Starkel, and Kent Cubbage, Brown & Root Environmental; and Kathy Trapp, Independent. Re: Remedial action objectives review.	Brown & Root Environmental	Mark Evans, U.S. Navy, NorthDiv	Meeting Minutes-Remedial Action Objectives Review		8	Meeting Minutes, Remedial Action, Objectives, Review
6	0189	06.04	203	10/30/1996	Letter	Final Groundwater/Leachate Modeling Study Report, Area A Landfill Remedial Design	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	GW/Leachate Modeling Study Final Report, Area A Landfill	Area A Landfill (Site 2)	1	Groundwater/ Leachate Modeling Study, Final Report, Area A Landfill
6	0518	03.01		10/31/1996	Letter	Consistency among data tables in the Phase II Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Phase II RI-Consistency Among Data Tables		4	Phase II RI, Data Tables, Consistency
6	0099	01.02	241	11/1/1996	Report	Work Plan Addendum No. 2 for Tank Farm Investigation	Brown & Root Environmental	U.S. Navy, NorthDiv	Work Plan Addendum No. 2-Tank Farm	Tank Farm (Site 23)	20	Addendum No. 2, Tank Farm
6	0199	06.01		11/1/1996	Letter	(EPA Comments on) Environmental Evaluation Report Proposed Interim Remedial Action Area A Landfill	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Proposed Interim Remedial Action-EPA Comments	Area A Landfill (Site 2)	3	Envtl. Eval. Report, EPA Comments
6	0388	06.01		11/4/1996	Letter	Response to CTDEP's letter dated October 23, 1996 explaining need for Additional Remedial Action at the Spent Acid Storage and Disposal Area	Mary Sanderson U.S. EPA	Christine Lacas CTDEP	CTDEP Responses to Explanation of need for Additional Remedial Action-SASDA	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	10	SASDA, Remedial Action, CTDEP
6	0797	06.01		11/5/1996	Letter	CTDEP Comments on the Draft Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Defense Reutilization Marketing Office, Site 6	5	CTDEP Comments, Draft Groundwater Monitoring Plan, Defense Reutilization, Marketing Office
6	0699	04.01		11/11/1996	Letter	Letter: To Kymberlee Keckler, U.S. EPA and Mark Evans, Navy NorthDiv NAVFAC. Re: Comments on preliminary evaluation of ecological risk-based remedial action objectives for Goss Cove sediments.	Kenneth Finkelstein, NOAA	Kymberlee Keckler U.S. EPA Mark Evans, U.S. Navy, NorthDiv	Comments on Preliminary Evaluation of Ecological Risk-Based Remedial Action Objectives	Goss Cove Landfill (Site 8)	1	Letter, Keckler, Evans, Comments, Preliminary Evaluation, Ecological, Risk-based Remedial Action, Objectives, Goss Cove, Sediments
6	0700	04.01		11/14/1996	Meeting Minutes	Phone Conference Minutes: With representatives of Navy NorthDiv NAVFAC, NSB-NLON Environmental, U.S. EPA, CTDEP, Brown & Root Environmental, and CH2MHill. Re: Area A Downstream ecological remedial action objectives; Goss Cove ecological evaluation; and Area A Landfill alternatives evaluation.	Brown & Root Environmental	Mark Evans, U.S. Navy, NorthDiv	Phone Conference Minutes	Area A Downstream Water Courses (Site 3), Goss Cove Landfill (Site 8), Area A Landfill (Site 2)	5	Phone Conference, Minutes, Ecological Remedial Action, Objectives, Area A, Downstream, Goss Cove, Landfill, Alternatives, Evaluation
6	0798	06.01		11/14/1996	Letter	Navy responses to EPA comments of October 1, 1996 on the Draft groundwater Monitoring Plan for the Defense Reutilization and Marketing Office	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Responses to EPA Comments	Defense Reutilization Marketing Office, Site 6	10	Navy Responses, EPA Comments, Draft Groundwater, Monitoring Plan, Defense Reutilization, Marketing Ofice

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6	0190	06.01	203	11/25/1996	Letter	Resolution of State Comments Regarding Groundwater/Leachate Modeling Study Report for the Area A Landfill Remedial Design	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Resolution of CTDEP Comments on GW/Leachate Modeling Study Report, Area A Landfill	Area A Landfill (Site 2)	2	CTDEP Comments, Resolution
6	0100	06.04	203	12/1/1996	Report	Area A East End Investigation, Area A Landfill Remedial Design, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	East End Investigation - Area A Landfill	Area A Landfill (Site 2)	500	East End, Area A, Landfill Remedial Design
6	0101	06.04	203	12/1/1996	Report	Revised Design Analysis Report, Area A Landfill Remedial Design, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Revised Design Report - Area A Landfill	Area A Landfill (Site 2)	300	Area A Landfill, Revised Design Report
6	0102	04.03	275	12/1/1996	Report	Draft Field Sampling Plan for Goss Cove Landfill Data Gap Investigation	Brown & Root Environmental	U.S. Navy, NorthDiv	Draft FSP	Goss Cove Landfill (Site 8)	40	Field Sampling, Goss Cove, Landfill Data Gap
6	0200	06.01		12/3/1996	Letter	State Comments Regarding the Environmental Evaluation Report Proposed Interim Remedial Action, Area A Landfill at NSB Groton, CT	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed Interim Remedial Action-CTDEP Comments	Area A Landfill (Site 2)	1	Envtl. Eval. Report, CTDEP Comments
6	0206	06.01	203	12/4/1996	Letter	Final Area A East End Investigation Report	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	EPA AND CTDEP	Area A Landfill (Site 2)	2	Final Investigation Report, Area A, East End
6	0201	06.04	203	12/6/1996	Letter	Revised Design Analysis Report, Area A Landfill RD	Jean-Luc Glorieux Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP	Revised Design Analysis Report for Area A Landfill RD	Area A Landfill (Site 2)	2	Area A, Revised Design Analysis Report
6	0460	10.05		12/17/1996	Meeting Minutes	Minutes of November 6, 1996 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, COMSUBGRUTWO, CTDEP, BRE, RAB Members, Community Members	Matt Cochran Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes (11-6-96)		6	RAB Meeting, Minutes,
6	0701	04.01		12/18/1996	Memo	Memo: From Bill Starkel and Kent Cubbage, Brown & Root Environmental. Re: Goss Cove Follow-up/Mamacoke Cove Habitat Evaluation.	Bill Starkel and Kent Cubbage, Brown & Root Environmental	Mark Evans, U.S. Navy, NorthDiv	Memo-Goss Cove Follow-up/Mamacoke Cove Habitat Evaluation	Goss Cove Landfill (Site 8), Mamacoke Cove	16	Memorandum, Goss Cove, Follow-up, Mamacoke Cove, Habitat Evaluation
6	0647	04.01		12/20/1996	Report	Draft Report - Functions and Values Assessment of Area A Downstream Wetlands and Watercourses	William Niering and Hunter Brawley	Brown & Root Environmental, U.S. EPA, Navy	Draft Report	Area A Downstream Wetlands	75	Draft Report, Functions, Values Assessment, Area A, Downstream, Wetlands, Watercourses
6	0702	04.03		12/23/1996	Report	Memorandum Report for Ecological Inspection at Goss Cove and Mamacoke Coves.	Brown & Root Environmental	Mark Evans, U.S. Navy, NorthDiv	Memo Report	Goss Cove Landfill (Site 8), Mamacoke Cove	2	Memorandum, Report, Ecological Inspection, Goss Cove, Mamacoke Coves
9	0642	03.06	260	1/1/1997	Report	Background Review Report for Lower Subase Remedial Investigation	Brown & Root Environmental	U.S. Navy, NorthDiv	Background Review Report	Lower Subase	500	Background Review, Lower Subase RI
9	0644	03.06	275	1/1/1997	Report	Field Sampling Plan for Goss Cove Landfill, Data Gap Investigation	Brown & Root Environmental	U.S. Navy, NorthDiv	Field Sampling Plan	Goss Cove Landfill (Site 8)	50	Field Sampling Plan, Goss Cove, Landfill, Data Gap, Investigation
9	0703	09.01		1/6/1997	Letter	Letter: to Kymberlee Keckler, U.S. EPA and Mark Evans, Navy NorthDiv NAVFAC from Kenneth Finkelstein, NOAA. Re: Comments on the Goss Cove follow-up/Mamacoke Cove habitat evaluation.	Kenneth Finkelstein, NOAA	Kymberlee Keckler, U.S. EPA Mark Evans, U.S. Navy, NorthDiv	NOAA Comments	Goss Cove Landfill (Site 8), Mamacoke Cove	2	NOAA, Comments, Goss Cove, Goss Cove, Follow-up, Mamacoke Cove, Habitat Evaluation
6	0103	04.01	276	1/7/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the Draft Focused Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA comments on the Draft Focused Feasibility Study	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	12	EPA, Comments, Draft Focused, Feasibility Study
9	0690	04.01		1/7/1997	Letter	To Mark Evans, Navy NorthDiv, NAVFAC from Kymberlee Keckler, U.S. EPA Re: Comments on draft Field Sampling Plan for Data Gap Investigation.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments	Data Gap	5	EPA, Comments, Field Sampling Plan, Draft, Data Gap, Investigation
9	0767	04.01		1/7/1997	Document	Responses to USEPA's January 7, 1997 Letter of Comments regarding the December 1996 revised Draft FFS Report for the Area A Downstream/OBDA	N/A	N/A	Responses to EPA Comments	Area A Downstream/OBDA	3	Responses, EPA, Comments, FFS, Revised Draft, Area A Downstream, OBDA
9	0386	03.01		1/8/1997	Letter	Spent Acid Storage and Disposal Area - CTDEP Concerns about Compliance with the State's Pollutant Mobility Criteria	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	SASDA-CTDEP Pollutant Mobility Criteria Compliance Concerns	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	3	SASDA, Compliance, Pollutant Mobility Criteria, CTDEP
9	0796	06.01		1/9/1997	Letter	Navy responses to CTDEP comments dated November 5, 1996 on the Draft Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Navy Response to CTDEP Comments	Defense Reutilization Marketing Office	1	Navy Responses, CTDEP Comments, Draft Groundwater Monitoring Plan, Defense Reutilization, Marketing Office
9	0202	06.01		1/16/1997	Letter	(EPA Comments on) Revised Design Analysis Report Area A Landfill - Interim Remedial Design NSB Groton, CT	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Revised Design Analysis Report-EPA Comments	Area A Landfill (Site 2)	2	Revised Design Analysis Report, EPA Comments

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9	0691	04.01		1/23/1997	Memo	Memo: To Jeff Dale, Navy NorthDiv NAVFAC; Andy Stackpole, NSB-NLON; Kymberlee Keckler, U.S. EPA; and Mark Lewis CTDEP, from Jean-Luc Glorieux, Brown & Root Environmental. Re: Preliminary results of Phase I sampling for Data Gap Investigation.	Jean-Luc Glorieux TINUS	Jeff Dale U.S. Navy, NorthDiv Andy Stackpole, NSB-NLON Kymberlee Keckler, U.S. EPA Mark Lewis CTDEP	Memorandum-Prlim. Results of Phase I Sampling for Data Gap Investigation	Data Gap	3	Memorandum, Preliminary Results, Phase I Sampling, Data Gap, Investigation
9	0773	04.01		1/30/1997	Letter	USEPA request for extension of the review period for the Area A Downstream Feasibility Study	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Period Extension Request	Area A Downstream	1	EPA, Request, Review Period, Area A, Downstream, Feasibility Study
9	0645	02.02	203	2/1/1997	Report	Abbreviated Field Verification Sampling Plan for Site 4 Removal Action	Brown & Root Environmental	U.S. Navy, NorthDiv	Abbreviated Field Verification Sampling Plan	Site 4	75	Abbreviated Field Verification Sampling Plan, Site 4, Removal Action
6	0104	04.01	276	2/3/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: U.S. EPA comments on the Functions and Values Assessment of Area A Downstream Wetlands and Watercourses Report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA Comments Functions and Values Assessment (Area A Downstream Wetlands and Watercourses)	Area A Downstream Water Courses (Site 3)	6	Functions and Values Assessment, Area A, Wetlands, Watercourses
9	0519	03.01		2/3/1997	Letter	EPA Comments on the Evaluation of Responses to Comments on the Draft Phase II Remedial Investigation and Revised Chapter 9 Ecological Risk Assessment dated December 30, 1996	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Phase II RI, Revised Ch. 9 Eco. RA-EPA Comments on Responses		3	Draft Phase II RI, Eco. RA, EPA, Comments
9	0704	04.01		2/3/1997	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Technical review comments on the Goss Cove follow-up/Mamacoke Cove habitat evaluation.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Technical Review Comments	Goss Cove Landfill (Site 8), Mamacoke Cove	3	EPA, Technical Review, Comments, Goss Cove Follow-up, Mamacoke Cove, Habitat Evaluation
9	0244	03.01	260	2/6/1997	Letter	EPA Comments on the Background Review Report for the Lower Subase Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans US Navy NorthDiv	Lower Subase Background Review Report-EPA Comments	Lower Subase	8	Lower Subase, Background Rev.
9	0772	04.01		2/6/1997	Letter	CTDEP request for extension of Time for Submittal of State Comments regarding the Revised Draft Focused Feasibility Study for Area A Downstream/OBDA	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Request for Submittal of Comments Deadline Extension	Area A Downstream/OBDA	1	CTDEP, Request, Comments, Submittal, Deadline, Extension, Revised Draft Focused Feasibility Study, Area A, Downstream, OBDA
6	0105	04.01	276	2/21/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to comments on the Draft Focused Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy responses to EPA Comments-Draft Focused Feasibility Study		17	Navy responses, Draft Focused Feasibility Study
9	0203	06.01	203	2/21/1997	Responses	Draft Responses to USEPA's January 16, 1997 Letter of Comments RE: the December 1996 Revised Design Analysis Report for Area A Landfill Design			Draft Responses to EPA's Comments regarding the Interim Remedial Design	Area A Landfill (Site 2)	2	Responses, EPA Comments, Interim Remedial Design
9	0359	04.02		2/21/1997	Letter	Request for Alternative Soil Remediation Criteria for Spent Acid Storage and Disposal Area	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Alternative Soil Remediation Criteria Request	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Alternative Soil Remediation Criteria, Spent Acid
9	0576	02.01		2/24/1997	Fax	Letter: Foster Wheeler's transmittal for the Final Work Plan for the Over Bank Disposal Area	Carl Tippmann Foster Wheeler	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Foster Wheeler's Transmittal-Final Work Plan	Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	1	Foster Wheeler, Transmittal, Final Work Plan, Over Bank Disposal Area
6	0106	04.01	276	2/25/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA comments on the Functions and Values Assessment of Area A Downstream Wetlands and Watercourses Report.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy responses to EPA comments-Functions and Values Assessment (Area A Downstream Wetlands and Watercourses)	Area A Downstream Water Courses (Site 3)	7	Navy Responses, Functions and Values, Area A, Wetlands, Watercourses
6	0107	03.01	129	3/1/1997	Report	Phase II Remedial Investigation Transmittal Memorandum and Responses to Comments	Brown & Root Environmental	U.S. Navy, NorthDiv	Phase II RI-Transmittal Memo And Responses to Comments		150	Phase II, RI Report, Transmittal Memo
6,7,8	0108	03.04	129	3/1/1997	Report	Phase II Remedial Investigation Report for Naval Submarine Base - New London, Groton, Connecticut (13 Volumes)	Brown & Root Environmental	U.S. Navy, NorthDiv	Phase II RI		12000	Phase II RI
8	0109	03.06	260	3/1/1997	Report	Existing Data Summary Report for the Lower Subase Remedial Investigation, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Lower Subase EDSR	Lower Subase	500	Lower Subase EDSR, Lower Subase RI
9	0643	03.06	275	3/1/1997	Report	Data Gap Investigation Report for Goss Cove Landfill	Brown & Root Environmental	U.S. Navy, NorthDiv	Data Gap Investigation Report	Goss Cove Landfill (Site 8)	200	Data Gap, Investigation Report, Goss Cove, Landfill
9	0705	04.03		3/5/1997	Report	Draft Memorandum Report: Evaluation of Goss Cove as an Ecological Habitat.	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Draft Memo Report	Goss Cove Landfill (Site 8)	2	Memorandum, Draft, Report, Evaluation, Goss Cove, Ecological Habitat
8	0110	04.01	276	3/6/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the Draft Focused Feasibility Study - ARARs.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Draft Focused Feasibility Study-ARARs	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	18	Draft Focused Feasibility Study, ARARs
8	0111	04.01	276	3/7/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Comments regarding the revised draft Focused Feasibility Study.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments on Revised Draft Focused Feasibility Study	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	9	Revised Draft Focused Feasibility Study, CTDEP

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9	0243	09.01	260	3/12/1997	Letter	Request for Further Toxicity Testing on Zone 7 and Zone 5	Kenneth Finkelstein NOAA	Kymberlee Keckler, USEPA Mark Evans US Navy NorthDiv	NOAA Request for Further Toxicity Testing-Zones 7 & 5	(Zone 7 & 5)	1	Toxicity Testing, Zone 7, Zone 5, NOAA
9	0384	04.01		3/21/1997	Letter	(CTDEP) Comments Regarding the Draft Proposed Plan for Site 15-Spent Acid Storage and Disposal Area	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft Proposed Plan, Site 15-CTDEP Comments	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Proposed Plan, Site 15, SASDA, CTDEP
9	0459	10.05		3/27/1997	Meeting Minutes	Minutes and Attachments of February 12, 1997 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, COMSUBGRUTWO, CTDEP, BRE, Foster Wheeler, RAB Members, Community Members	Corey Rich Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes and Attachments (2-12-97)		34	RAB Meeting, Minutes, Attendance Sheet
9	0358	04.01		4/3/1997	Letter	(CTDEP) Comments on the Draft Proposed Plan for Site 15 - Spent Acid Storage and Disposal Area	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Proposed Plan (Site 15 SASDA)-CTDEP Comments	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Draft Proposal Plan, Site 15, CTDEP Comments
9	0242	03.04	260	4/10/1997	Letter	EPA Comments on the Work Plan and Sampling Analysis Plan for Lower Subase Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	WP and SAP (Lower Subase)-EPA Comments	Lower Subase	7	WP, SAP, EPA Comments, Lower Subase
9	0382	07.01		4/11/1997	Letter	Federal Facility Agreement for the NSB-NLON Draft Proposed Plan for the Spent Acid Storage and Disposal Area - Request to Discuss with US Navy	John M. Looney CTDEP	Kenneth Homick, Esq U.S. Navy, NorthDiv	Federal Facility Agreeement-Request to discuss with Navy	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Federal Facility Agreement, Spent Acid
8	0112	04.02	276	4/18/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State ARARs.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP-State ARARs	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	6	Connecticut, State ARARs
9	0385	04.01		4/18/1997	Letter	Meeting for Informal Dispute Resolution/Draft Proposed Plan for Spent Acid Storage and Disposal Area	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Dispute Resolution/Draft Proposed Plan for SASDA Meeting	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Dispute Resolution, SASDA, Proposed Plan
8	0113	01.02		4/19/1997	Report	Field Report Sediment Sampling Thames River	Maguire Group Inc.	U.S. Navy, NorthDiv	Sed. Field Report-Thames Rv.	Thames River	150	Sediment, Thames
9	0227	03.01	260	4/21/1997	Letter	Comments on Existing Data Summary Report	Kymberlee Keckler U.S. EPA	Corey Rich Brown & Root Environmental	Existing Data Summary Report-EPA Comments		3	Existing Data Summary Report, EPA Comments
9	0241	03.01	260	4/21/1997	Letter	EPA Comments on the Existing Data Summary Report for Lower Subase Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Existing Data Summary Report-EPA Comments (Lower Subase)	Lower Subase	5	Existing Data Summary, EPA
9	0795	04.01		4/24/1997	Letter	USEPA Request for extension of the review period for the Defense Reutilization and Marketing Office Feasibility Study	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Request for Extension of Review Period	Defense Reutilization Marketing Office	1	EPA, Request, Review Period, Extension, Defense Reutilization, Marketing Office, Feasibility Study
9	0379	05.01		5/6/1997	Document	Draft of Spent Acid Storage and Disposal Area Dispute Resolution Statement of DEP Position	N/A	N/A	DEP Statement of Position - SASDA Dispute Resolution	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Dispute Resolution, SASDA, Satement of Position
9	0380	05.01		5/6/1997	Document	Spent Acid Storage and Disposal Area Dispute Resolution, Chronology of Events	N/A	N/A	SASDA Dispute Resolution-Chronology of Events	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	SASDA, Dispute Resolution, Chronology
9	0381	05.01		5/6/1997	Document	Agenda: Informal Dispute Resolution Meeting for the Spent Acid Storage and Disposal Area: Between US Navy and CTDEP, May 6, 1997	N/A	N/A	Meeting Between Navy and CTDEP	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	SASDA Dispute Resolution
9	0383	05.01		5/12/1997	Letter	Informal Dispute Resolution for the Spent Acid Storage and Disposal Site - CTDEP Additional Sampling	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	SASDS-Informal Dispute Resolution: CTDEP Additional Sampling	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Spent Acid, Dispute Resolution, CTDEP Sampling
9	0577	02.01		5/12/1997	Memo	Transmittal of Over Bank Disposal Area Action Memorandum (AM attached, unsigned)	Mark Evans U.S. Navy, NorthDiv	Andrew Stackpole NSB-NLON	Action Memo (Over Bank Disposal Area) Transmittal w/ AM Attached, unsigned	Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	19	Over Bank Disposal Area, Action Memorandum, AM, Unsigned
8	0114	04.01	267	5/15/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Comments on the Draft Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Feasibility Study-EPA Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	37	Feasibility Study, Draft, EPA Comments
9	0762	04.01		5/19/1997	Document	Responses to USEPA's March 6, 1997 Letter of Comments regarding the December 1996 Revised Draft FFS Report for the Area A Downstream/OBDA	N/A	N/A	Responses to EPA Comments	Area A Downstream/OBDA	8	Responses, EPA, Comments, FFS, Revised Draft, Area A Downstream, OBDA
8	0115	04.01	276	5/21/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to comments on the Draft Focused Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Feasibility Study-Navy Responses to EPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	17	Feasibility Study, Draft, EPA Comments, Navy Responses
8	0116	04.01	276	5/23/1997	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments on the Draft Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Feasibility Study-Navy Responses to CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	15	Feasibility Study, Draft, CTDEP Comments, Navy Responses
8	0117	04.01	267	5/28/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding the Draft Feasibility Study.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft Feasibility Study-State Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	14	Feasibility Study, Draft, State Comments
9	0706	04.01		5/28/1997	Letter	Transmittal of Information Package: Contaminant migration modeling.	Jean-Luc Glorieux BRE	Mark Evans US Navy, NorthDiv Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Information Package		30	Information Package, Transmittal, Contaminant Migration, Modeling

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8	0118	02.03	203	6/1/1997	Report	Verification Sampling Report for Site 4 (Rubble Fill at Bunker A-86) Removal Action, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Bunker A-86 VSR	Rubble Fill Area at Bunker A-86 (Site 4)	75	VSR, Bunker A-86, Removal Action
9	0230	03.01	260	6/13/1997	Letter	Responses to EPA Comments of April 10, 1997 on Draft WP and SAP	Corey Rich Brown & Root Environmental on behalf of Navy	Kymberlee Keckler U.S. EPA	Draft Final WP and SAP-Navy Responses to EPA Comments	Lower Subase	12	Draft Final Work Plan, Sampling and Analysis Plan, Navy Respnses
9	0692	04.01		6/13/1997	Letter	Letter: To Kymberlee Keckler, U.S. EPA from Mark Evans Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of April 23, 1997 regarding draft Data Gap Investigation	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Responses to EPA Letter	Data Gap	4	Navy, Responses, EPA, Letter, Data Gap, Investigation
8	0119	04.01	276	6/20/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on Proposed Plan.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Proposed Plan-USEPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	15	Proposed Plan, EPA Comments
9	0455	10.05		6/20/1997	Meeting Minutes	Minutes, Attendance Sheet and Attachments of May 14, 1997 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, CTDEP, BRE, RAB Members	Corey Rich Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, and Attachments (5-14-97)		29	RAB Meeting, Minutes, Attachments, Attendance Sheet
8	0120	04.01	276	6/25/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Review of responses to comments on the Draft Focused Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Focused Feasibility Study EPA Review of Navy Responses to Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	25	Draft Focused Feasibility Study, EPA Review, Navy Responses
9	0376	02.01		6/30/1997	Letter	Transmittal for the Draft Post Removal Report for Site 3 - Over Bank Disposal Area	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler USEPA I	Draft Post Removal Report (Site 3, Over Bank Disposal Area)-Transmittal	Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	1	Post Removal Report, Site 3, Over Bank Disposal Area
9	0575	02.01		6/30/1997	Letter	Transmittal for the Draft Post-Removal Report for Site 3, Over Bank Disposal Area	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Post-Removal Report Transmittal	Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	1	Post-Removal Report, Draft, Transmittal, Site 3, Over Bank Disposal Area
8	0121	04.04	276	7/1/1997	Report	Proposed Plan for Area A Downstream/OBDA (Site 3), Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Area A Downstream/OBDA PRAP	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	4	Area A, Downstream/OBDA, Site 3, Proposed Plan
8	0122	02.03		7/1/1997	Report	Final Post Removal Report for Over Bank Disposal Area, Naval Submarine Base - New London, Groton, Connecticut	Foster Wheeler Environmental Corporation	U.S. Navy, NorthDiv	OBDA PRR	Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	125	Over Bank Disposal Area, Post Removal Report
8	0123	02.03		7/1/1997	Report	Final Post Removal Report for Site 4 - Rubble Fill at Bunker A-86, Naval Submarine Base - New London, Groton, Connecticut	Foster Wheeler Environmental Corporation	U.S. Navy, NorthDiv	Bunker A-86 PRR	Rubble Fill Area at Bunker A-86 (Site 4)	150	Post Removal Report, Bunker A-86, Rubble Fill
9	0372	04.01		7/2/1997	Memo	Transmittal for Proposed Plan for Site 15 - Spent Acid Storage and Disposal Area	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler, U.S. EPA	Proposed Plan (Site 15, SASDA) Transmittal	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Proposed Plan, Site 15, SASDA
9	0377	05.03		7/2/1997	E-mail	SASDA ROD - Addition of text	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	SASDA ROD-Addition of Text		1	SASDA, ROD, Text Addition
9	0264	02.03		7/3/1997	Report	Final Post-Removal Report	Foster Wheeler	U.S. Navy, NorthDiv	Final Post-Removal Report	Rubble Fill Area at Bunker A-86 (Site 4)	100	Post-Removal Report, Final
9	0373	04.04		7/3/1997	Report	Proposed Plan for Site 15 - Spent Acid Storage and Disposal Area, Installation Restoration Program	U.S. Navy	N/A	Proposed Plan (Site 15, SASDA, Installation Restoration Program)	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	5	Installation Restoration Program, Site 15, Proposed Plan
9	0378	10.04		7/3/1997	Notice	Draft of Notice Inviting Public Comments on the Proposed Cleanup of the Spent Acid Storage and Disposal Area	U.S. Navy	N/A	Public Comment Invitation Draft (SASDA)	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Public Comment, Invitation, SASDA
9	0471	01.02		7/3/1997	E-mail	EPA has no further comments on the Historical Radiological Assessment	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Historical Radiological Assessment-Notification of No Further EPA Comments		1	Historical Radiological Assessment, EPA
9	0366	05.02		7/10/1997	Meeting Minutes	Minutes of Public Hearing on July 10, 1997 for the Spent Acid Storage and Disposal Site, Attendees Included: Andy Stackpole (NSB-NLON), Mark Evans (Navy), Greta Delrocini (Navy), Kymberlee Keckler (USEPA I), Mark Lewis (CTDEP), Christina Lacas (CTDEP), Bob Jones (Navy-REC), Bart Pearson (Community) - Sign-in Sheet Included	U.S. Navy	Attendees	SASDA Site Public Hearing Minutes	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	SASDA, Public Hearing, Minutes
9	0265			7/11/1997	E-mail	Revised Risk Assessment	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Revised RA	Rubble Fill Area at Bunker A-86 (Site 4)	1	Revise Risk Assessment
9	0370	04.01		7/11/1997	Letter	(CTDEP) Comments Regarding Proposed Plan for Site 15-Spent Acid Storage and Disposal Area	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed Plan (Site 15, SASDA)-CTDEP Comments	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	3	Proposed Plan, Site 15, SASDA, CTDEP Comments
9	0374	05.01		7/11/1997	E-mail	SASDA ROD - Change to name	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	SASDA ROD-Change to Name		1	SASDA, ROD, Change to Name
9	0371	04.01		7/14/1997	Letter	Correction to CTDEP Comments Regarding Proposed Plan for Site 15-Spent Acid Storage and Disposal Area	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed Plan (Site 15, SASDA)-CTDEP Comments Correction	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Proposed Plan, Site 15, SASDA, CTDEP Comments

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9	0375	07.04		7/15/1997	Letter	Federal Facility Agreement for the NSB-NLON Draft Proposed Plan for the Spent Acid Storage and Disposal Area	John M. Looney CTDEP	Kenneth Homick, Esq U.S. Navy, NorthDiv	NSB-NLON Draft Proposed Plan for the SASDA-Federal Facility Agreement	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	2	Federal Facility Agreement, NSB NLON Draft Proposed Plan
9	0765	04.01	276	7/23/1997	Letter	Transmittal of the Draft Final Feasibility Study Report for the Area A Downstream	Jean-Luc Glorieux Tetra Tech NUS	Mark Evans US Navy, NorthDiv Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Final Feasibility Study Report	Area A Downstream (Site 3)	1	Transmittal, Feasibility Study, Draft Final Report, Area A, Downstream
9	0766	04.01	276	7/23/1997	Letter	Transmittal of the Final Proposed Remedial Action Report (PRAP) for Area A Downstream	Jean-Luc Glorieux Tetra Tech NUS	Mark Evans US Navy, NorthDiv Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Proposed Remedial Action Report	Area A Downstream, Site 3	1	Transmittal, Proposed Remedial Action Report, Area A, Downstream
9	0229	03.01	260	7/28/1997	Letter	Comments on Draft Final WP and SAP	Kymberlee Keckler U.S. EPA	Corey Rich Brown & Root Environmental	Draft Final WP and SAP-EPA Comments	Lower Subase	3	Draft Final Work Plan, Sampling and Analysis Plan, EPA Comments
9	0693	04.01		7/28/1997	Letter	Letter: To Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Responses to U.S. EPA comments on Data Gap Investigation Report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Reply to Navy Responses to EPA Comments	Data Gap	3	Navy, Responses, EPA, Reply, Letter, Data Gap, Investigation
9	0857	03.01		7/29/1997	Letter	Basewide Groundwater Remedial Investigation Data Needs at Naval Submarine Base in Groton, CT	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA's Suggestions for Data Needs for the Base-wide Groundwater Remedial Investigation, Naval Submarine Base-New London	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	9	EPA, Data Needs, Basewide Groundwater Operable Unit RI
9	0266	02.01		7/30/1997	Letter	Transmittal of Action Memorandum, Site 4	CO, NorthDiv	CO, NSB NLON	Action Memo Transmittal (Site 4)	Rubble Fill Area at Bunker A-86 (Site 4)	1	Action Memo, Site 4
8	0124	04.03	275	8/1/1997	Report	Data Gap Investigation Report for Goss Cove Landfill, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Goss Cove DGI	Goss Cove Landfill (Site 8)	150	Data Gap Investigation, Goss Cove Landfill
8	0125	04.01	267	8/4/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA comments on the Draft Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Feasibility Study-Navy Responses to EPA Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	20	Draft Feasibility Study, Navy Responses, EPA Comments
8	0126	04.01	267	8/4/1997	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments on the Draft Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Feasibility Study-Navy Responses to CTDEP Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	8	Draft Feasibility Study, Navy Responses, CTDEP Comments
8	0127	10.05	276	8/6/1997	Letter	Meeting Minutes: Public Meeting for Site 3 - Area A Downstream, August 6, 1997.			Public Meeting Minutes	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	9	Public Meeting, Minutes
9	0225	03.01	260	8/12/1997	Letter	Comments on Existing Data Summary Report and Draft final WP and SAP	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA Mark Evans U.S. Navy, NorthDiv	Existing Data Summary Report and Draft Final WP and SAP-NOAA Comments		1	Data Summary Report, WP, SAP, Comments, NOAA
8	0128	04.01	276	8/18/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Comments on Proposed Plan.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed Plan-CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	1	Proposed Plan, CTDEP Comments
9	0365	05.02		8/18/1997	Report	Fully Executed Record of Decision, Spent Acid Storage and Disposal Area	U.S. Navy	N/A	Fully executed ROD (SASDA) Transmittal	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	18	Executed ROD, SASDA
9	0369	05.01		8/18/1997	Memo	Transmittal for Spent Acid Storage and Disposal Area Record of Decision	CO, US Navy (A.E. Haring)	Andrew Stackpole NSB-NLON	SASDA ROD Transmittal	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	SASDA, ROD
9	0368	05.01		8/26/1997	Fax	CTDEP SASDA ROD Changes	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP ROD Changes (SASDA)		7	ROD, CTDEP, SASDA
8	0129	04.01	276	8/28/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on Draft Final Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Final Feasibility Study-EPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	3	Final Feasibility Study, Draft, EPA Comments
8	0130	04.01	267	8/28/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Review of responses to comments on the Draft Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Feasibility Study-EPA Review of Navy Responses to Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	5	Draft Feasibility Study, EPA Review, Navy Responses
8	0131	01.02	241	9/1/1997	Report	Site Investigation - Report for Tank Farm Investigation for Naval Submarine Base - New London, Groton, Connecticut (3 Volumes)	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Tank Farm SI	Tank Farm (Site 23)	1750	Site Investigation, Tank Farm, Site 23
9	0132	03.02	260	9/1/1997	Report	Final Lower Subase Remedial Investigation Work Plan and Sampling and Analysis Plan, Naval Submarine Base-New London, Groton, Connecticut	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Lower Subase RI WP/SAP	Lower Subase	1000	Lower Subase, RI, Work Plan, Sampling, Analysis
9	0814	04.04		9/1/1997	Document	Defense Reutilization and Marketing Office (Site 6) Proposed Plan	N/A	N/A	Defense Reutilization and Marketing Office Proposed Plan	Defense Reutilization Marketing Office, Site 6, DRMO	4	Proposed Plan, Defense Reutilization, Marketing Office, Site 6

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9	0133	04.03	267	9/9/1997	Report	Feasibility Study for the Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	DRMO FS	Defense Reutilization and Marketing Office (DRMO) (Site 6)	500	Feasibility Study, Defense Reutilization and Marketing Office
9	0226	03.01	260	9/10/1997	Letter	Responses to USEPA Comments on Draft Final WP and SAP, Lower Subase RI	Mark Evans US Navy NorthDiv	Kymberlee Keckler U.S. EPA	Draft Final WP and SAP-Navy Responses to EPA Comments	Lower Subase	5	WP, SAP, Navy Responses
9	0794	04.01		9/10/1997	Letter	Transmittal for the Final proposed Remedial Action Plan for the Defense Reutilization and Marketing Office	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler USEPA I Mark Lewis CTDEP Mark Evans US Navy, NorthDiv	Transmittal of the Final Proposed Remedial Action Plan	Defense Reutilization Marketing Office, DRMO, Site 6	1	Transmittal, Final Proposed Remedial Action Plan, Defense Reutilization, Marketing Office
9	0228	03.01	260	9/12/1997	Memo	Transmittal of Final Work Plan and Sampling and Analysis Plan, Lower Subase RI	Corey Rich Brown & Root Environmental	Kymberlee Keckler U.S. EPA Jennifer Hayes Stump, GF Mark Lewis, CTDEP Kenneth Finkelstein NOAA	Final WP and SAP Transmittal (Lower Subase RI)	Lower Subase	2	Final Work Plan, Final Sampling and Analysis Plan, Lower Subase RI
9	0367	05.01		9/15/1997	Letter	(CTDEP) Concurrence with No Further Action Remedy, Spent Acid Storage and Disposal Area	Sidney Holbrook CTDEP	Harley Laing USEPA I R.N. Nestlerode NSB-NLON	No Further Action Remedy-CTDEP Concurrence	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	NFAR, CTDEP
9	0497	01.01		9/15/1997	Letter	Transmittal of the Final Report for the Tank Farm Investigation	Brian Helland U.S. Navy, NorthDiv	Scott Dashefy CTDEP	Tank Farm Investigation Final Report-Transmittal	Tank Farm (Site 23)	1	Tank Farm Investigation, Final Report, Transmittal
9	0768	04.01	276	9/18/1997	Letter	Transmittal of the Final Feasibility Study Report for Area A Downstream	Jean-Luc Glorieux Tetra Tech NUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Final Feasibility Study Report	Area A Downstream, Site 3	1	Transmittal, Final Feasibility Study Report, Area A, Downstream
9	0364	05.01		9/19/1997	Letter	Transmittal for Fully Executed Record of Decision for the Spent Acid and Disposal Area	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Fully executed ROD (SASDA) Transmittal	Spent Acid Storage and Disposal Area (SASDA) (Site 15)	1	Executed ROD, SASDA
9	0470	01.02		9/19/1997	Memo	Notification of no further USEPA comments on the Draft Final Historical Radiological Assessment	Mark Evans U.S. Navy, NorthDiv	Jeff Brann Portsmouth Naval Shipyard	Draft Final Historical Radiological Assessment-Notification of No Further EPA Comments		1	Historical Radiological Assessment, EPA
9	0694	04.01		9/19/1997	Letter	Letter: To Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on Data Gap Investigation.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Navy Comments on Data Gap Investigation	Data Gap	2	Navy, Comments, Data Gap, Investigation
9	0458	10.05		9/29/1997	Meeting Minutes	Minutes, Attendance Sheet and Attachments of August 6, 1997 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, Gannett Fleming, CTDEP, BRE, RAB Members, Community Members	Corey Rich Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, and Attachments (8-6-97)		21	RAB Meeting, Minutes, Attachments, Attendance Sheet
9	0681	06.05	203	10/1/1997	Report	Final Report for Interim Remedial Action at Area A Landfill, Volume I	Brown & Root Environmental	U.S. Navy, NorthDiv	Final Report for Interim Remedial Action	Area A Landfill (Site 2)	50	Interim Remedial Action, Final Report, Area A, Landfill, Voumes I
9	0224	03.01	260	10/8/1997	Letter	Comments on Draft Final Work Plan and Sampling and Analysis Plan and final WP and SAP	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft and Final Work Plan and Sampling Plan-EPA Comments		2	Sampling Plan, Work Plan, EPA
9	0759	04.01		10/10/1997	Letter	Navy responses to USEPA letter dated August 28, 1997 on the Draft Final Feasibility Study for Area A Downstream/OBDA	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Responses EPA Comments	Area A Downstream/OBDA, Site 3	5	Navy Responses, EPA, Comments, Feasibility Study, Draft Final, Area A, Downstream, OBDA
9	0134	04.01	267	10/17/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding the Proposed Plan.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Proposed Plan-State Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	3	Proposed Plan, State Comments
9	0774	03.01	276	10/17/1997	Letter	Transmittal of the Application for Alternative Direct Exposure Criteria for Area A Downstream, application attached	Jean-Luc Glorieux Tetra Tech NUS	Mark Lewis CTDEP	Transmittal of the Application for Alternative Direct Exposure Criteria	Area A Downstream, Site 3	75	Transmittal, Application, Alternative Direct Exposure, Criteria, Area A, Downstream, OBDA, Sampling
9	0135	05.01	276	10/22/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the Record of Decision.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	USEPA Comments on the ROD	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	15	Record of Decision, EPA Comments
9	0707	09.01		10/22/1997	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC and Kymberlee Keckler, U.S. EPA from Kenneth Finkelstein, NOAA. Re: Comments on the draft Feasibility Study report.	Kenneth Finkelstein, NOAA	Mark Evans U.S. Navy, NorthDiv Kymberlee Keckler U.S. EPA	NOAA Comments		1	NOAA, Comments, Feasibility Study, Draft Report
9	0136	04.01	267	10/23/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Comments on the Draft Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Feasibility Study-EPA Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	2	Draft Feasibility Study, EPA Comments

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9	0250	03.01	260	10/27/1997	Memo	Evaluation of Preliminary Soil Analytical Data Lower Subase Remedial Investigation	Corey Rich Brown & Root Environmental	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Preliminary Soil Analytical Data Evaluation (Lower Subase RI)	Lower Subase	3	Preliminary Soil Analytical Data, Evaluation, Lower Subase RI
9	0695	04.01		10/29/1997	Letter	Letter: To Mark Evans, Navy NorthDiv NAVFAC, from Jean-Luc Glorieux, Brown & Root Environmental. Re: Modified pages and figures for final Data Gap Investigation Report.	Jean-Luc Glorieux TINUS	Mark Evans U.S. Navy, NorthDiv Kymberlee Keckler USEPA I Mark Lewis CTDEP	Modified Pages and Figures for Final Data Gap Investigation Report	Data Gap	2	Modified Pages, Figures, Data Gap, Final Investigation Report, Jean-Luc Glorieux, Mark Evans
9	0813	06.01		10/29/1997	Letter	EPA Comments on the Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office dated October 1997	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office, DRMO, Site 6	3	EPA, Comments, Groundwater Monitoring Plan, DRMO
9	0137	05.01	276	10/30/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Comments on the draft Record of Decision.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft ROD-CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	4	Draft Record of Decision, CTDEP Comments
9	0708	04.01		10/30/1997	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC from Kymberlee Keckler, U.S. EPA. Re: Comments on the draft Feasibility Study report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		25	EPA, Comments, Feasibility Study, Draft Report
9	0638	01.02		11/1/1997	Report	Historical Radiological Assessment Volume I - Naval Nuclear Propulsion Program 1954-1993 Volume II - General Radioactive Material 1954-1993	Radiological Controls Office, Portsmouth Naval Shipyard	NSB-NLON	Historical Radiological Assessment		350	Radiological Assessment, Historical, Volume I, Volume II
9	0657	06.05	203	11/1/1997	Report	Final Report for Interim Remedial Action at Area A Landfill, Volumes II, III, IV, V, VI	Brown & Root Environmental	U.S. Navy, NorthDiv	Final Report for Interim Remedial Action	Area A Landfill (Site 2)	1600	Interim Remedial Action, Final Report, Area A, Landfill, Voumes II-VI
9	0138	04.01	276	11/4/1997	Letter	Letter (e-mail) to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Responses to comments on Draft Final Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Final Feasibility Study-EPA Responses to Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	1	Draft Final Feasibility Study, EPA Responses
9	0139	04.01	276	11/10/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA comments on the Draft Final Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Final Feasibility Study-Navy Responses to EPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	2	Draft Final Feasibility Study, Navy Responses
9	0140	04.01	276	11/12/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Application for Alternative Direct Exposure Criteria (ADECs).	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Letter concerning ADEC's Application	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	2	Alternative Direct Exposure Criteria, Application
9	0223	03.01	260	11/12/1997	Letter	Preliminary Phase I Analytical Results for the Lower Subase RI	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Preliminary Phase I Analytical Results-Lower Subase RI	Lower Subase	7	Lower Subase RI, Prelim Results
9	0245	03.01	260	11/12/1997	Fax	Letter: EPA Comments on the Preliminary Phase I Analytical Results for the Lower Subase RI w/ statistical backup	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Preliminary Phase I Analytical Results-EPA Comments (Lower Subase RI)	Lower Subase	46	Preliminary Phase I Analytical Results, EPA Comments
9	0469	01.02		11/18/1997	Letter	Transmittal for Historical Radiological Assessment	J. Argue Portsmouth Naval Shipyard	Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Transmittal of Historical Radiological Assessment		2	Historical Radiological Assessment, Transmittal
9	0696	04.01		11/24/1997	Letter	Letter: To Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Review of revised text and figures for Data Gap Investigation Report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Review of Revised Text and Figures for Data Gap Investigation Report	Data Gap	1	EPA, Review, Revised Text, Figures, Data Gap, Investigation Report
9	0141	05.01	276	11/26/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA comments on Draft Record of Decision.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft ROD-Navy Responses to USEPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	25	Draft Record of Decision, Navy Responses
9	0142	05.01	276	11/26/1997	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments on Draft Record of Decision.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft ROD-Navy Responses to CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	5	Draft Record of Decision, Navy Responses
9	0793	04.01		11/26/1997	Letter	Transmittal for the Final Feasibility Study for the Defense Reutilization and Marketing office	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler USEPA I Mark Lewis CTDEP Mark Evans US Navy, NorthDiv	Transmittal of the Final Feasibility Study	Defense Reutilization Marketing Office, DRMO, Site 6	1	Transmittal, Final Feasibility Study, Defense Reutilization, Marketing Office

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9	0143	04.03	276	12/1/1997	Report	Final Feasibility Study for Soil and Sediment, Area A Downstream/OBDA (Site 3), Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Area A Downstream/OBDA FS, including Functions and Values Assessment of Area A Downstream and Watercourses (Appendix A-2) and Ecological RAO Memorandum (Appendix A-4).	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	600	Area A, Feasibility Study, Downstream/ OBDA, Soil, Sediment
9	0639	05.03	276	12/1/1997	Report	Record of Decision for Soil and Sediment, Area A Downstream Water Courses, Overbank Disposal Area	Brown & Root Environmental	U.S. Navy, NorthDiv	ROD for Soil and Sediment	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	200	Record of Decision, Soil, Sediment, Area A, Downstream, Water Courses, Over Bank Disposal Area
9	0144	05.01	267	12/2/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: EPA comments on the Draft Interim Record of Decision.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Draft Interim ROD-EPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	4	Record of Decision, Draft Interim, EPA Comments
9	0145	05.01	276	12/3/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Further comments on the Record of Decision.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	ROD-Further EPA Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	3	Record of Decision, EPA Comments
9	0709	04.01		12/3/1997	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC from Mark Lewis, CTDEP. Re: Comments on the draft Feasibility Study report.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments		18	CTDEP, Comments, Feasibility Study, Draft Report
9	0746	04.01		12/3/1997	Letter	CTDEP Request for extension of time for submittal of CTDEP comments on the Draft Feasibility Study for Goss Cove	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comment Submittal Deadline Extension Request	Goss Cove Landfill (Site 8)	1	CTDEP, Request, Comments, Submittal, Deadline, Extension, Feasibility Study, Draft, Goss Cove
9	0761	05.01		12/3/1997	Letter	Additional USEPA comments requiring discussion in response to Navy's letter dated November 26, 1997 on the Area A Downstream/OBDA Record of Decision	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Additional Comments Requiring Discussion	Area A Downstream/OBDA, Site 3	3	EPA, Additional Comments, Discussion, Area A, Downstream, OBDA, Record of Decision
9	0812	06.01		12/11/1997	Letter	Navy responses to EPA comments of October 29, 1996 on the Groundwater Monitoring Plan dated October 1997 for the Defense Reutilization and Marketing Office	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Response to EPA Comments	Defense Reutilization Marketing Office	4	Navy Response, EPA, Comments, Groundwater Monitoring Plan, DRMO
9	0710	04.01		12/12/1997	Letter	Letter: to Kymberlee Keckler, U.S. EPA from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of October 30, 1997 on the draft Feasibility Study report.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Responses to EPA Comments		18	Navy, Responses, EPA, Comments, Feasibility Study, Draft Report
9	0146	05.01	267	12/15/1997	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding the Draft Interim Record of Decision.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft Interim ROD-CTDEP Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	11	Record of Decision, Draft Interim, CTDEP Comments
9	0452	10.05		12/19/1997	Meeting Minutes	Minutes, Attendance Sheet and Attachments of November 5, 1997 RAB Meeting. Attendees from NSB-NLON, Navy, USEPA I, CTDEP, BRE, RAB Members	Corey Rich Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, and Attachments (11-5-97)		27	RAB Meeting, Minutes, Attachments, Attendance Sheet
9	0248	03.01	260	12/22/1997	E-mail	Response to BRE E-mail Regarding the Lower Subase RI	Jayne Michaud, USEPA through Kymberlee Keckler, USEPA I	Mark Evans U.S. Navy, NorthDiv	EPA Response to Brown & Root Envtl. Email Regarding Lower Subase RI	Lower Subase	2	EPA Response, BRE Email, Lower Subase RI
9	0249	03.01	260	12/23/1997	Letter	Calculated CTDEP Remediation Standards, Lower Subase Remedial Investigation	Corey Rich Brown & Root Environmental	Mark Lewis CTDEP	Calculated CTDEP Remediation Standards (Lower Subase RI)	Lower Subase	9	Calculated Remediation Standards
9	0147	04.01	267	12/30/1997	Letter	Letter (e-mail) to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Review of responses to comments on Feasibility Study.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Feasibility Study-EPA Review of Navy Responses to Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	1	Feasibility Study, EPA Review of Navy Responses
9	0148	05.01	267	12/30/1997	Letter	Letter to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy, NorthDiv. Re: Responses to U.S. EPA comments on the Draft Record of Decision.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft ROD-Navy Responses to USEPA Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	6	Draft Record of Decision, Navy Responses, EPA Comments
10	0252	05.01		1/1/1998	Letter	State Concurrence with Remedy for Source Control Operable Unit	Arthur J. Rocque, Jr. CTDEP	Patricia L. Meaney, USEPA Captain R.N. Nestlerode, CO, NSB NLON	Source Control Operable Unit-State Concurrence with Remedy	Site 4	1	Source Control Operable Unit, Remedy, State Concurrence
10	0149	05.01	267	1/8/1998	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments on the Draft Interim Record of Decision.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Draft Interim ROD-Navy Responses to CTDEP Comments	Defense Reutilization and Marketing Office (DRMO) (Site 6)	8	Draft Interim Record of Decision, Navy Responses, CTDEP Comments
10	0711	04.01		1/8/1998	Letter	Letter: to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments dated December 3, 1997 on the draft Feasibility Study report.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy Responses to CTDEP Comments		16	Navy, Responses, CTDEP, Comments, Feasibility Study, Draft Report

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10	0712	04.01		1/13/1998	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Responses to U.S. EPA comments on the draft Feasibility Study report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Reply to Navy Responses to EPA Comments		10	EPA, Reply, Navy, Responses, Comments, Feasibility Study, Draft Report
10	0769	05.01		1/13/1998	E-mail	USEPA Responses to Navy Responses to EPA letters dated August 28, 1997 and November 4, 1997 on the Area A Downstream	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Reply to Navy Responses to EPA Comments	Area A Downstream, Site 3	1	EPA, Navy, Comments, Area A, Downstream
10	0810	06.01		1/13/1998	Letter	Additional EPA comments on the Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments Additional Comments	Defense Reutilization Marketing Office, DRMO, Site 6	3	EPA, Additional Comments, Groundwater Monitoring Plan, DRMO
10	0713	04.01		1/26/1998	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Responses to CTDEP's comments dated December 3, 1997 regarding the draft Feasibility Study report.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Reply to Navy Responses to CTDEP Comments		9	CTDEP, Reply, Navy, Responses, Comments, Feasibility Study, Draft Report
10	0151	04.03	276	2/3/1998	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Comments on Application for ADECs.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	ADECs Application-CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	2	Alternative Direct Exposure Criteria, Application, CTDEP Comments
10	0714	04.01		2/6/1998	Meeting Minutes	Meeting Minutes: with representatives of Navy NorthDiv NAVFAC, U.S. EPA, CTDEP, NOAA, Gannett Fleming, Brown & Root Environmental. Re: Soil Operable Unit Feasibility Study.	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Meeting Minutes-Soil Operable Unit Feasibility Study		10	Meeting Minutes, Soil, Operable Unit, Feasibility Study
10	0152	04.03	276	2/19/1998	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments regarding the Application for ADECs.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	ADECs Application-Navy Responses to CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	15	Alternative Direct Exposure Criteria, Application, Navy Responses, CTDEP Comments
10	0150	06.05	267	2/20/1998	Report	Final Groundwater Monitoring Plan for Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	DRMO GW Monitoring Plan	Defense Reutilization and Marketing Office (DRMO) (Site 6)	500	Groundwater Monitoring, DRMO
10	0811	06.01		2/20/1998	Letter	Transmittal for the Final Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler USEPA I Mark Lewis CTDEP Mark Evans US Navy, NorthDiv	Transmittal of the Final Groundwater Monitoring Plan	Defense Reutilization Marketing Office, DRMO, Site 6	1	Transmittal, Groundwater Monitoring, Final Plan, DRMO
10	0153	04.03	276	2/24/1998	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Resubmitted Application for ADECs.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Letter Concerning Resubmitted ADECs Application	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	2	Alternative Direct Exposure Criteria, Resubmitted Application
10	0220	03.01	260	2/27/1998	Letter	Request for Approval of Calculated CTDEP Remediation Standards	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Request for approval of Remediation Standards		11	Remediation Standards, CTDEP
10	0221	03.01	260	2/27/1998	Letter	Approval - RE: Request for Approval of Calculated CTDEP Remediation Standards	Michael J. Harder, Director of Permitting, Enforcement, and Remediation Division, CTDEP	Mark Evans U.S. Navy, NorthDiv	Remediation Standard Approval		6	Remediation Standards, CTDEP Approval
10	0155	05.02	267	3/1/1998	Report	Interim Record of Decision for Defense Reutilization and Marketing Office - Naval Submarine Base New London, Including Responsiveness Summary (Appendix C).	Brown & Root Environmental	U.S. Navy, NorthDiv	Interim ROD for DRMO, including Responsiveness Summary (Appendix C)	Defense Reutilization and Marketing Office (DRMO) (Site 6)	100	Interim Record of Decision, Responsiveness Summary, DRMO
10	0770	05.01		3/3/1998	Memo	Transmittal of the Record of Decision for the Area A Downstream	A.E. Haring US Navy, NorthDiv	Jeff Sullivan NSB-NLON	Transmittal of the ROD	Area A Downstream	1	Transmittal, Record of Decision, Area A, Downstream
10	0809	05.01		3/3/1998	Memo	Interim Record of Decision for signature for the Defense Reutilization and Marketing Office	AE Haring US Navy, NorthDiv	CO, US Navy NorthDiv	Interim ROD for Signature	Defense Reutilization Marketing Office	1	Record of Decision, Interim, Signature, DRMO
10	0715	04.01		3/9/1998	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Determination that hazardous wastes have been disposed.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Letter-Determination That Hazardous Wastes Have Been Disposed		4	EPA, Determination, Hazardous Wastes, Disposed
10	0880	06.01		3/11/1998	Letter	EPA comments on the Revised Area A Landfill (Operable Unit 1) Remedial Action Report	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Revised Area A Landfill Remedial Action Report	Site 2	1	EPA Comments, Revised Area A Landfill Remedial Action Report
10	0219	03.01	260	3/20/1998	Letter	Responses to CTDEP's Comments on Calculated Remediation Standards	Corey Rich Brown & Root Environmental	Mark Lewis CTDEP	Calculated Remediation Standards-Responses to CTDEP's Comments		10 (back & front)	Calculated Remediation Standards
10	0154	06.05	203	3/23/1998	Report	Final Report for Interim Remedial Action at Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut - Volume 1	Brown & Root Environmental	Mark Evans U.S. Navy, NorthDiv	Area A Landfill PCAS	Area A Landfill (Site 2)	75	Area A Landfill, Interim Remedial Action, Volume 1
10	0204	06.01	203	3/23/1998	Letter	Final Final Report, Area A Landfill Interim Remedial Action - Volume 1	Jean-Luc Glorieux Brown & Root Environmental	James Briggs U.S. Navy, NorthDiv Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Final Interim Remedial Action Report-Area A Landfill	Area A Landfill (Site 2)	1	Interim Remedial Action, Final Report, Area A Landfill - Volume 1

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10	0763	05.01		3/24/1998	Letter	Inland Water Resources Division (IWRD) comments on the Record of Decision for the Area A Downstream Restoration	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	IWRD Comments	Area A Downstream	3	IWRD, Comments, Record of Decision, Area A, Downstream, Restoration
10	0262	02.01	203	3/25/1998	Memo	Revised Risk Assessment following Completion of Removal Action	Simeon Hahn, Risk Assessment Team Leader	Mark Evans U.S. Navy, NorthDiv	Revised RI following Completion of Removal Action	Rubble Fill Area at Bunker A-86 (Site 4)	1	Revised RI, Removal Action
10	0716	04.01		3/25/1998	Letter	Letter (email): to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: RCRA waste at Goss Cove.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Letter Re: RCRA Waste at Goss Cove	Goss Cove Landfill (Site 8)	1	Evans, Keckler, EPA, RCRA, Waste, Goss Cove
10	0760	06.01	276	3/31/1998	Letter	CTDEP concurrence with the remedy for soil and sediment for Area A Downstream/OBDA	Arthur Rocque, Jr. CTDEP	Harley Laing USEPA I Cpt R.N. Nestlerode NSB-NLON	CTDEP Concurrence with the Remedy for Soil and Sediment	Area A Downstream/OBDA	1	CTDEP, Concurrence, Soil, Sediment, Remedy, Area A, Downstream, OBDA
10	0771	06.01		3/31/1998	Fax	CTDEP concurrence with the remedy for soil and groundwater for the Defense Reutilization and Marketing Office	Arthur Rocque, Jr. CTDEP	Harley Laing USEPA I Cpt R.N. Nestlerode NSB-NLON	CTDEP Concurrence with Soil and Groundwater Remedy	Defense Reutilization and Marketing Office, DRMO, Site 6	1	CTDEP, Concurrence, Soil, Sediment, Remedy, Area A, Downstream
10	0205	06.01	203	4/3/1998	Letter	Corrected Field Inspection Forms and Figure, Area A Landfill Interim Remedial Action Final Report	Jean-Luc Glorieux Brown & Root Environmental	James Briggs U.S. Navy, NorthDiv Kymberlee Keckler U.S. EPA Mark Lewis CTDEP	Remedial Action Final Report-Corrected Field Inspection Forms and Figure	Area A Landfill (Site 2)	2	Remedial Action Report, Corrected Field Inspection Forms and Figures
10	0453	10.05		4/3/1998	Meeting Minutes	Minutes, Agenda, Attendance Sheet and Attachments of February 11, 1998 RAB Meeting. Attendee from NSB-NLON, Navy, CTDEP, Ledge Light, RAB Members	Corey Rich Brown & Root Environmental	Attendees & RAB Members	RAB Meeting Minutes, Agenda, Attendance Sheet, and Attachments (2-11-98)		27	RAB Meeting, Minutes, Agenda, Attachments, Attendance Sheet
10	0717	04.01		4/6/1998	Letter	Letter: to Kymberlee Keckler, U.S. EPA from Mark Evans, Navy NorthDiv NAVFAC. Re: Determination of hazardous waste disposal at Goss Cove Landfill.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Determination of Hazardous Waste Disposal	Goss Cove Landfill (Site 8)	2	Keckler, Evans, Navy, Determination, Hazardous Waste, Disposal, Goss Cove
10	0718	04.01		4/6/1998	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Responses to Navy's position on RCRA requirements at Goss Cove Landfill.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Responses to Navy Position on RCRA Requirements	Goss Cove Landfill (Site 8)	2	CTDEP, Responses, Navy, Position, RCRA, Requirements, Goss Cove, Landfill
10	0719	04.01		4/8/1998	Meeting Minutes	Meeting minutes: Revisions to minutes from January 30, 1998 meeting.	Jean-Luc Glorieux TtNUS	Mark Evans US Navy, NorthDiv Kymberlee Keckler USEPA I Mark Lewis CTDEP	Meeting Minutes Revisions		5	Meeting, Minutes, Revision
10	0263	04.01		4/15/1998	Letter	Transmittal of Draft Proposed Plan	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Proposed Plan Draft Transmittal	Rubble Fill Area at Bunker A-86 (Site 4)	1	Proposed Plan Draft
10	0218	03.01	260	4/16/1998	Memo	Transmittal of Draft Lower Subase RI Report	Corey Rich Brown & Root Environmental	Kymberlee Keckler U.S. EPA Patti Lynne Tyler, U.S. EPA Jennifer Hayes Stump, GF Mark Lewis, CTDEP Kenneth Finkelstein, NOAA	Draft Lower Subase RI Report-Transmittal	Lower Subase	2	RI Report, Lower Subase
10	0261	04.01		4/16/1998	Letter	State Comments Regarding Draft Proposed Plan	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Site 4 Proposed Plan-CTDEP Comments	Rubble Fill Area at Bunker A-86 (Site 4)	1	Proposed Plan, Site 4, CTDEP Comments
10	0217	03.01	260	4/17/1998	Letter	Request for Approval of Calculated CTDEP Remediation Standards	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Calculated CTDEP Remediation Standards-Request for Approval		2	Remediation Standards, CTDEP
10	0883	06.01	203	4/17/1998	Letter	Transmittal of the Draft Groundwater Monitoring Plan for Area A Landfill (Site 2L)	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler USEPA I	Transmittal of Draft Groundwater Monitoring Plan for Area A Landfill	Site 2	1	Transmittal, Groundwater Monitoring Plan, Area A Landfill
10	0884	06.01	203	4/17/1998	Letter	Transmittal of the Draft Groundwater Monitoring Plan for Area A Landfill (Site 2L)	Jean-Luc Glorieux Brown & Root Environmental	Mark Lewis CTDEP	Transmittal of Draft Groundwater Monitoring Plan for Area A Landfill	Site 2	1	Transmittal, Draft Groundwater Monitoring Plan, Area A Landfill
10	0156	04.03	276	4/21/1998	Letter	Letter to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Additional comments on Application for ADECs.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	ADEC Application-Additional CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	5	Alternative Direct Exposure Criteria, Application, CTDEP Comments
10	0808	06.01		4/29/1998	Letter	EPA comments on the Final Groundwater Monitoring Plan for the Defense Reutilization and Marketing Office - Completion of Remedial Design	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office	1	EPA Comments, Final Groundwater Monitoring Plan, DRMO, Remedial Design
10	0253	10.05		5/6/1998	Minutes	Public Meeting for Proposed Plan			Public Meeting Minutes	Site 4	2	Proposed Plan, Public Meeting
10	0260	04.01		5/7/1998	Letter	State Comments Regarding Proposed Plan for Site 4	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Site 4 Proposed Plan-CTDEP Comments	Rubble Fill Area at Bunker A-86 (Site 4)	1	Proposed Plan, Site 4, CTDEP Comments

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10	0215	03.01	260	5/19/1998	Letter	Comments on Draft RI Report	Kenneth Finkelstein NOAA	Kymberlee Keckler U.S. EPA Mark Evans U.S. Navy, NorthDiv	Draft RI Report-Comments		11	Draft RI, Comments
10	0259	05.01		5/27/1998	Letter	Transmittal of Draft ROD	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler U.S. EPA	Draft ROD Transmittal	Rubble Fill Area at Bunker A-86 (Site 4)	1	Record of Decision, Draft Transmittal
10	0256	05.01		5/28/1998	E-mail	ROD Comments	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	ROD-EPA Comments	Rubble Fill Area at Bunker A-86 (Site 4)	1	Record of Decision, EPA Comments
10	0885	06.01		5/28/1998	Letter	EPA comments on the Groundwater Monitoring Plan for Area A Landfill dated April 1998	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Groundwater Monitoring Plan for Area A Landfill	Site 2	8	EPA Comments, Groundwater Monitoring Plan, Area A Landfill
10	0255	05.01		6/1/1998	Letter	State Comments Regarding Draft ROD	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Draft ROD-State Comments	Rubble Fill Area at Bunker A-86 (Site 4)	2	Draft Record of Decision, CTDEP Comments
10	0257	05.01		6/1/1998	E-mail	ROD Comments	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	ROD-EPA Comments	Rubble Fill Area at Bunker A-86 (Site 4)	1	Record of Decision, EPA Comments
10	0258	05.01		6/1/1998	E-mail	ROD Comments	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	ROD-CTDEP Comments	Rubble Fill Area at Bunker A-86 (Site 4)	2	Record of Decision, CTDEP Comments
10	0222	03.01	260	6/5/1998	Memo	Responses to CTDEP's April 21, 1998 letter of Comments Regarding the February 1998 Revised Application for Alternative Direct Exposure Criteria for the Area A Downstream Site	U.S. Navy	CTDEP	Application for Alternative Direct Exposure Criteria-Navy Responses to CTDEP Comments	Area A Downstream Water Courses (Site 3)	2	Navy Responses, Alternative Direct Exposure Criteria, Application
10	0246	03.01	260	6/10/1998	E-mail	Request for Extension of Review of the Lower Subase RI	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv Mark Lewis CTDEP	Lower Subase RI-EPA Request for Extension of Review	Lower Subase	1	EPA Request, Extension of Review, Lower Subase RI
10	0157	04.03	276	6/12/1998	Letter	Letter to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments on Application for ADECs.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	ADEC Application-Navy Responses to CTDEP Comments	Area A Downstream Water Courses/OBDA Pond Over Bank Disposal Area (OBDA) Debris (Site 3)	15	Alternative Direct Exposure Criteria, Application, Navy Responses, CTDEP Comments
10	0247	03.01	260	6/12/1998	E-mail	Request for Extension of Review of the Lower Subase RI	Mark Lewis CTDEP	Mark Evans U.S. Navy NorthDiv Kymberlee Keckler U.S. EPA	Lower Subase RI-CTDEP Request for Extension of Review	Lower Subase	1	CTDEP Request, Extension of Review, Lower Subase RI
10	0254	05.01		6/12/1998	Memo	Rubble Fill Area at Bunker A-86 Record of Decision - Transmittal	CO, NorthDiv	CO, NSB NLON	ROD Transmittal-Rubble Fill Area at Bunker A-86	Rubble Fill Area at Bunker A-86 (Site 4)	1	Rubble Fill Area, Bunker A-86, ROD
10	0216	03.01	260	6/23/1998	Letter	Comments on the Draft Lower Subase RI Report	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments on Draft RI Report, Lower Subase, Site 4		17	Draft RI, EPA Comments
10	0887	06.01		6/24/1998	Letter	CTDEP comments on the Draft Groundwater Monitoring Plan for Area A Landfill dated April 1998	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Groundwater Monitoring Plan for Area A Landfill	Site 2	9	CTDEP Comments, Groundwater Monitoring Plan, Area A Landfill
10	0251	05.01		6/26/1998	Letter	Transmittal of Record of Decision with ROD attached	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	ROD Transmittal with ROD attached	Site 4	1	Record of Decision
10	0451	10.05		7/7/1998	Meeting Minutes	Minutes and attachments of May 6, 1998 RAB Meeting. Attendees from NSB-NLON, Navy, EPA, EPA, CTDEP, TtNUS, Mohegan Tribe, RAB Members	Corey Rich TtNUS	Attendees & RAB Members	RAB Meeting Minutes and Attachments (5-6-98)		40	RAB Meeting, Minutes, Attachments
10	0727	04.01		7/14/1998	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on Draft Work Plan for Evaluation of Chemical and Toxicological Data for development of preliminary remediation goals.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		20	EPA, Comments, Work Plan, Evaluation, Chemical Toxicological Data, Development of Preliminary Remediation Goals
10	0158	06.05	267	7/15/1998	Report	Interim (Round 1) Groundwater Monitoring Report for Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut	Brown & Root Environmental	U.S. Navy, NorthDiv	Round 1 GMR for DRMO	Defense Reutilization and Marketing Office (DRMO) (Site 6)	300	Groundwater Monitoring Report, Round 1, DRMO
10	0214	03.01	260	7/15/1998	Letter	State Comments Regarding Draft Lower Subase RI for Naval Submarine Base	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	Lower Subase RI-State Comments	Lower Subase	13	Lower Subase RI, State Comments
10	0805	06.01		7/15/1998	Letter	Transmittal for the Round 1 Interim Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Jean-Luc Glorieux Brown & Root Environmental	Kymberlee Keckler USEPA I Mark Lewis CTDEP Mark Evans US Navy, NorthDiv	Tranmsittal of the Round 1 Interim Groundwater Monitoring Report	Defense Reutilization Marketing Office, Site 6	1	Transmittal, Round 1, Interim Groundwater Monitoring, DRMO
10	0728	04.01		7/23/1998	Report	Final Work Plan for Evaluation of Chemical and Toxicological Data for Development of Preliminary Remediation Goals for Goss Cove.	SAIC	Mark Evans U.S. Navy, NorthDiv	Final Work Plan	Goss Cove Landfill (Site 8)	25	Work Plan, Final, Evaluation, Chemical, Toxicological Data, Remediation Goals, Goss Cove

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10	1056	03.01		7/23/1998	Letter	Transmittal of the Final Work Plan - Evaluation of Chemical and Toxicological Data for Development of Preliminary Remediation Goals for Goss Cove	Gregory Tracey SAIC	Mark Evans US Navy, NorthDiv	Transmittal of the Final Work Plan - Evaluation of Chemical and Toxicological Data for Development of Preliminary Remediation Goals for Goss Cove	Site 8	1	Transmittal, Work Plan, Evaluation of Chemical and Toxicological Data for Development of Preliminary Remediation Goals, Goss Cove
10	0888	06.01		7/27/1998	Responses	Navy response to EPA's May 28, 1998 comments on the Draft Groundwater Monitoring Plan for the Area A Landfill	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the Draft Groundwater Monitoring Plan for the Area A Landfill	Site 2	10	EPA, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0807	06.01		7/28/1998	Letter	CTDEP Comments on the Interim Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Defense Reutilization Marketing Office, Site 6	1	CTDEP Comments, Interim Groundwater Monitoring Report, DRMO
10	0889	06.01		7/29/1998	Responses	Navy response to CTDEP's June 24, 1998 comments regarding the Draft Groundwater Monitoring Plan for the Area A Landfill	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Responses to CTDEP's Comments on Draft Groundwater Monitoring Plan for the Area A Landfill	Site 2	12	CTDEP, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0482	01.01		8/4/1998	Letter	Transmittal for Final Report for Tank Farm Remediation	Brian Helland U.S. Navy, NorthDiv	Scott Deshefy CTDEP	Final Report for Tank Farm Remediation-Transmittal	Tank Farm, Site 23	1	Tank Farm, Remediation, Final Report
10	0239	03.01	260	8/11/1998	Letter	(Navy) Responses to National Oceanic and Atmospheric Administration (NOAA) Comments Dated May 19, 1998 on the Draft Remedial Investigation Report for the Lower Subase Site	Mark Evans US Navy NorthDiv	Kenneth Finkelstein NOAA	Lower Subase Draft RI-Navy Responses to NOAA Comments	Lower Subase	5	Lower Subase, Draft RI, Navy Responses, NOAA Comments
10	0240	03.01	260	8/11/1998	Letter	(Navy) Responses to USEPA Letter of June 23, 1998 on the Draft Remedial Investigation Report for the Lower Subase	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Lower Subase Draft RI-Navy Responses to EPA Comments	Lower Subase	24	Lower Subase, Draft RI, Navy Responses, EPA
10	0213	03.01	260	8/12/1998	Letter	Responses to CTDEP Comments Dated July 15, 1998 on the Draft RI Report for the Lower Subase Site	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Lower Site Draft RI-Responses to State Comments	Lower Subase	19	Lower Subase Site, Navy Responses
10	0806	06.01		8/17/1998	Letter	EPA Comments on the Interim Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office, DRMO, Site 6	5	EPA Comments, Interim Groundwater Monitoring Report, DRMO
10	0890	06.01		9/15/1998	Letter	EPA review comments on Navy's responses to EPA May 28, 1998 comments on the Groundwater Monitoring Plan for Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Navy's Responses to EPA Comments on the Groundwater Monitoring Plan for Area A Landfill	Site 2	3	EPA, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0238	03.01	260	9/16/1998	Letter	EPA Review of the Responses to Comments on the Lower Subase Remedial Investigation	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Lower Subase RI-EPA Review of Navy Responses	Lower Subase	7	Lower Subase RI, EPA Review
10	0764	05.01		9/18/1998	Letter	Draft Administrative Record File Index of Documents for the Area A Downstream Site for review	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Draft Administrative Record File Index of Documents	Area A Downstream, Site 3	11	Administrative Record, Draft, File Index, Documents, Area A, Downstream, Site for Review
10	0891	06.01		9/22/1998	Letter	Via e-mail: CTDEP review comments on Navy's response to CTDEP June 24, 1998 comments on the Draft Groundwater Monitoring Plan for Area A Landfill	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	E-mail: CTDEP Review Comments on Navy's Response to Comments on the Draft Groundwater Monitoring Plan for Area A Landfill	Site 2	4	CTDEP Review Comments, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0237	03.01	260	10/7/1998	Letter	(Navy) Responses to USEPA Letter of September 16, 1998 Regarding EPA Review of the Navy's August 11, 1998 Response to Comment Letter on the Draft Remedial Investigation Report for the Lower Subase	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Lower Subase RI-Navy Responses to EPA Comments	Lower Subase	16	Lower Subase RI, Navy Responses, EPA Comments
10	0457	10.05		10/9/1998	Meeting Minutes	Minutes, Attendance Sheet and Attachments of August 5, 1998 RAB Meeting. Attendees from NSB-NLON, Navy, EPA, CTDEP, TtNUS, SAIC, RAB Members	Corey Rich TtNUS	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, and Attachments (8-5-98)		41	RAB Meeting, Minutes, Attachments, Attendance Sheet
10	0744	03.01		11/9/1998	Letter	EPA comments on the Draft Wetland Functions and Values Assessment Report - Ecological Evaluation of Vegetation along Goss Cove	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Comments	Goss Cove Landfill (Site 8)	3	EPA, Comments, Wetland Functions and Values Assessment, Draft Report, Ecological Evaluation, Vegetation, Goss Cove
10	0236	03.04	260	11/16/1998	Letter	EPA Comments on Lower Subase Remedial Investigation for the Naval Submarine Base	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	Lower Subase RI-EPA Comments	Lower Subase	6	Lower Subase RI, EPA Comments

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10	0858	03.01	312	12/8/1998	Letter	Calculated Alternative CTDEP Remediation Standards, Existing Data Summary Report for the Basewide Groundwater Operable Unit RI for NSB-NLON	Corey Rich TtNUS	Mark Lewis CTDEP	Alternative CTDEP Remediation Standards, Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	9	Alternative CTDEP Remediation Standards, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0454	10.05		12/17/1998	Meeting Minutes	Minutes, Attendance Sheet and Attachments of November 4, 1998 RAB Meeting. Attendees from NSB-NLON, Navy, EPA, TtNUS, EA Engineering, SAIC, Connecticut College, Mohegan Tribe, RAB Members	Corey Rich TtNUS	Attendees & RAB Members	RAB Meeting Minutes, Attendance Sheet, and Attachments (11-4-98)		36	RAB Meeting, Minutes, Attachments, Attendance Sheet
10	0235	03.01	260	12/21/1998	Letter	(Navy) Responses to USEPA Letter of November 16, 1998 on the Draft Final Remedial Investigation Report for the Lower Subase	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Draft Final RI Report (Lower Subase)-Navy Responses to EPA Comments	Lower Subase	10	Draft Final RI, Navy Responses, Lower Subase
10	1057	03.01		12/22/1998	Letter	Transmittal of the Draft Evaluation of Chemical and Toxicological Data for Goss Cove	Gregory Tracey SAIC	Mark Evans US Navy, NorthDiv	Transmittal of the Draft Evaluation of Chemical and Toxicological Data for Goss Cove	Site 8	1	Transmittal, Chemical and Toxicological Data, Goss Cove
10	0859	03.01		1/5/1999	Letter	EPA comments on the Existing Data Summary Report for Basewide Groundwater Operable Unit RI for NSB-NLON dated December 1998	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Existing Data Summary Report for Basewide Groundwater Operable Unit RI for NSB-NLON dated December 1998	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	7	EPA Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0160	06.05	203	1/6/1999	Report	Draft Final Groundwater Monitoring Plan for the Area A Landfill, Naval Submarine Base - New London, Groton, Connecticut	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	Area A Landfill GMP	Area A Landfill (Site 2)	300	Groundwater Monitoring Report, Draft Final, Area A Landfill
10	0159	06.05	267	1/18/1999	Report	Interim (Round 2) Groundwater Monitoring Report for Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	Round 2 GMR for DRMO	Defense Reutilization and Marketing Office (DRMO) (Site 6)	250	Groundwater Monitoring Report, Round 2, DRMO
10	0729	09.01		1/18/1999	Letter	Letter: to Kymberlee Keckler, U.S. EPA and Mark Evans, Navy NorthDiv NAVFAC, from Kenneth Finkelstein, NOAA. Re: Comments on draft Evaluation of Chemical and Toxicological Data.	Kenneth Finkelstein, NOAA	Kymberlee Keckler U.S. EPA Mark Evans, U.S. Navy, NorthDiv	NOAA Comments		5	NOAA, Comments, Draft Evaluation, Chemical and Toxicological Data
10	0804	06.01		1/18/1999	Letter	Transmittal for the Round 2 Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Mark Mengel Tetra Tech NUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Tranmsittal of the Round 2 Groundwater Monitoring Report	Defense Reutilization Marketing Office, DRMO, Site 6	2	Transmittal, Round 2, Groundwater Monitoring, DRMO
10	0860	10.05		1/27/1999	Meeting Minutes	Minutes of January 19, 1999 Meeting on Goss Cove, Attendees: NorthDiv, NSB-NLON, USEPA, NOAA, CTDEP, GF, TtNUS, SAIC	Matt Bartman TtNUS Corey Rich TtNUS	Meeting Attendees	Meeting Minutes for Goss Cove Meeting	Site 8	4	Meeting Minutes, Goss Cove
10	0232	03.01	260	1/29/1999	Letter	Transmittal of Final Lower Subase RI	Corey Rich Brown & Root Environmental	Kymberlee Keckler USEPA I Patti Lynne Tyler, EPA Jennifer Hayes Stump, GF Mark Lewis, CTDEP Kenneth Finkelstein, NOAA	Final Lower Subase RI Transmittal	Lower Subase	2	Final Lower Subase RI
11	1070	03.04	260	1/29/1999	Report	Lower Subase Remedial Investigation Volume I - Text Volume II - Text Volume III - Drawings & Appendices A-G Volume IV - Appendix H Volume V - Appendices I-J	TtNUS	US Navy	Lower Subase Remedial Investigation Report, Volumes 1 through 5	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	1750	Lower Subase Remedial Investigation Report, Volumes 1 through 5
10	0233	03.01	260	2/2/1999	Letter	Review of Navy Responses Dated December 18, 1998 to EPA's November 16, 1998 Letter Regarding Draft Final RI	Kymberlee Keckler USEPA I	Mark Evans U.S. Navy, NorthDiv	Draft Final RI-EPA Review of Navy Responses		2	Draft Final RI, EPA Review, Navy Responses
10	0447	10.05		2/3/1999	Meeting Minutes	Minutes, Agenda, Attendance Sheet, and Presentation documents for the RAB Meeting on February 3, 1999. Attendees from Navy, USEPA I, TtNUS, Ledge Light, Health Dist., EA Engineering, CTDEP, NSB-NLON. RAB Members	Corey Rich TtNUS	RAB Members	Minutes, Agenda, Attendance Sheet, Presentation Documents-RAB Meeting (2-3-99)		20	RAB Meeting, Minutes, Agenda, Attendance Sheet, Presentation Documents
10	0720	04.01		2/9/1999	Meeting Minutes	Meeting Minutes: with representatives of Navy NorthDiv NAVFAC, U.S. EPA, CTDEP, NOAA, Gannett Fleming, TtNUS, and SAIC. Re: Evaluation of chemical and toxicological data from Goss Cove Landfill and the Feasibility Study for Goss Cove.			Meeting Minutes	Goss Cove Landfill (Site 8)	5	Meeting, Minutes, Evaluation, Chemical, Toxicological Data, Goss Cove, Landfill, Feasibility Study Report

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10	0730	04.01		2/9/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: State comments on draft Evaluation of Chemical and Toxicological Data.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	State Comments on Draft Evaluation of Chemical and Toxicological Data		5	EPA, State Comments, Draft Evaluation, Chemical and Toxicological Data
10	0731	04.01		2/17/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments on draft Evaluation of Chemical and Toxicological Data.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments on Draft Evaluation of Chemical and Toxicological Data		2	CTDEP Comments, Draft Evaluation, Chemical and Toxicological Data
10	0234	03.01	260	2/19/1999	Letter	Transmittal of Revised Table 3-3 for Final Lower Subase RI	Corey Rich Brown & Root Environmental	Kymberlee Keckler USEPA I Patti Lynne Tyler, EPA Jennifer Hayes Stump, GF Mark Lewis, CTDEP Kenneth Finkelstein, NOAA	Final RI Revised Table 3-3 Tranasmittal	Lower Subase	2	Final RI, Revised Table 3-3
10	0861	03.01		2/19/1999	Letter	CTDEP comments on the Draft Existing Data Summary Report for Basewide Groundwater Operable Unit RI NSB-NLON	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Existing Data Summary Report for Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	6	CTDEP Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0456	10.01		2/20/1999	Memo	Transmittal of Copies of Minutes (May 6, August 5, and November 4, 1998)	Richard Conant NSB-NLON	Peter Allan Resident, Chatham, NJ	Transmittal of Copies of Minutes (5-6, 8-5, 11-4-98)		2	Minutes, Copies, Transmittal
10	0862	03.01		2/24/1999	Responses	Navy response to EPA comments of January 5, 1999 for the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI dated December 1998	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	16	Responses to Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0231	03.01	260	3/1/1999	E-mail	Comments on Final RI	Kymberlee Keckler U.S. EPA	Corey Rich Brown & Root Environmental	Final RI-EPA Comments	Lower Subase	1	Final Remedial Investigaiton, EPA Comments
10	0892	06.01		3/10/1999	E-mail	EPA review of response to comments on the Groundwater Monitoring Plan for Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review of Responses to Comments on the Groundwater Monitoring Plan for Area A Landfill; Email at 6:24 PM	Site 2	1	EPA Review, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0893	06.01		3/10/1999	E-mail	EPA review of the Groundwater Monitoring Plan for Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review of the Groundwater Monitoring Plan for Area A Landfill	Site 2	1	EPA Review, Responses to Comments, Groundwater Monitoring Plan, Area A Landfill
10	0863	03.01		3/11/1999	Responses	Navy response to CTDEP comments of February 19, 1999 for the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI NSB-NLON	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Responses to CTDEP Comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	11	Responses to Comments, Draft Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0864	03.01		3/16/1999	Fax	Fax to Mark Evans from Corey Rich on March 17, 1999: Response from CTDEP to Corey Rich's (TtNUS) letter dated December 8, 1998 requesting additional remediation criteria be applied to NSB-NLON	Elsie Patton CTDEP	Corey Rich TtNUS	CTDEP Comments Regarding Additional Remediation Criteria, Basewide Groundwater Operable Unit Remedial Investigation	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	Additional Remediation Criteria, Basewide Groundwater Operable Unit RI
10	0161	01.02	257	3/23/1999	Report	Site Management Plan for Naval Submarine Base - New London, Groton, Connecticut	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	SMP for 1999		800	1999 Site Management Plan
10	0865	03.01		3/23/1999	Letter	EPA's review comments of Navy's response to EPA's January 5, 1999 comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI dated December 1998	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA's Review Comments for Responses to Comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	5	EPA Review Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0732	04.01		3/24/1999	Letter	Letter: to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of February 9, 1999 on the draft Evaluation of Chemical and Toxicological Data.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Response to EPA Comments		7	Navy Response, EPA, State Comments, Draft Evaluation, Chemical and Toxicological Data
10	0733	04.01		3/25/1999	Letter	Letter: to Kenneth Finkelstein, NOAA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to NOAA letter of January 18, 1999 on draft Evaluation of Chemical and Toxicological Data.	Mark Evans U.S. Navy, NorthDiv	Kenneth Finkelstein NOAA	Navy Response to NOAA Comments		3	Navy Response, NOAA Comments, Draft Evaluation, Chemical and Toxicological Data

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10	0866	03.01		3/26/1999	Letter	CTDEP review comments of Navy's response to CTDEP's February 19, 1999 comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP's Review Comments for Responses to Comments on the Draft Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	6	CTDEP Review Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0721	04.01		4/5/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the draft final Feasibility Study report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		11	EPA, Comments, Feasibility Study, Draft Final
10	0734	04.01		4/6/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the draft Proposed Plan.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Comments		3	EPA, Comments, Proposed Plan, Draft
10	0446	10.01		4/14/1999	Memo	Transmittal of RAB Meeting Minutes for February 3, 1999	Corey Rich TtNUS	RAB Members	RAB Meeting Minutes (2-3-99)-Transmittal		3	RAB Meeting, Minutes Transmittal
10	0867	03.01	312	4/14/1999	Responses	Navy responses to CTDEP's March 16, 1999 request for additional information regarding Calculated Additional Remediation Criteria EDSR for the Basewide Groundwater Operable Unit RI	Corey Rich TtNUS	Elsie Patton CTDEP	Responses to CTDEP's Request for Additional Information Regarding Calculated Additional Remediation Criteria EDSR for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	11	CTDEP Request for Additional Information, Calculated Additional Remediation Criteria, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0735	04.01		4/26/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding draft Proposed Plan.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments		3	CTDEP, Comments, Proposed Plan, Draft
10	0162	06.05	267	4/30/1999	Report	Interim (Round 3) Groundwater Monitoring Report for Defense Reutilization and Marketing Office, Naval Submarine Base - New London, Groton, Connecticut	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	Round 3 GMR for DRMO	Defense Reutilization and Marketing Office (DRMO) (Site 6)	150	Groundwater Monitoring Report, Round 3, DRMO
10	0803	06.01		4/30/1999	Letter	Transmittal for the Round 3 Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Mark Mengel Tetra Tech NUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Round 3 Groundwater Monitoring Report	Defense Reutilization Marketing Office	2	Transmittal, Round 3, Groundwater Monitoring, DRMO
10	0722	04.01		5/7/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: Comments on the draft final Feasibility Study.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments	Goss Cove Landfill (Site 8)	2	CTDEP, Comments, Feasibility Study, Draft Final
10	0445	10.05		5/12/1999	Meeting Minutes	Minutes, Agenda and Attendance sheet of RAB Meeting on May 12, 1999. Attendees from NSB-NLON, Navy, CO SUBASE, EPA, FWENC, CTDEP, EA Engineering, Foster Wheeler, NCIS, COMSUBGRU2, RAB Members.	Corey Rich TtNUS	Attendees & RAB Members	Minutes, Agenda, Attendance Sheet-RAB Meeting (5-12-99)		8	RAB Meeting, Minutes, Agenda, Attendance Sheet
10	0163	03.06	312	5/14/1999	Report	Final Existing Data Summary Report for the Basewide Groundwater OU Remedial Investigation, Naval Submarine Base - New London, Groton, Connecticut. Volumes 1,2, and 3.	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	EDSR for GW OU RI		2000	Existing Data Summary Report, Basewide Groundwater OU RI
10	0868	03.01	312	5/14/1999	Letter	Transmittal of the Final Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Corey Rich TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP Kenneth Finkelstein NOAA	Transmittal for the Final Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	2	Transmittal, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0723	04.01		5/21/1999	Letter	Letter: to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of April 5, 1999 on draft final Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Responses to EPA Comments	Goss Cove Landfill (Site 8)	18	Navy, Responses, EPA, Comments, Feasibility Study, Draft Final
10	0724	04.01		5/21/1999	Letter	Letter: to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments dated May 7, 1999 on the draft final Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy Responses to CTDEP Comments	Goss Cove Landfill (Site 8)	2	Navy, Responses, CTDEP, Comments, Feasibility Study, Draft Final
10	0736	04.01		5/21/1999	Letter	Letter: to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of April 6, 1999 on the draft Proposed Plan.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Response to EPA Comments	Goss Cove Landfill (Site 8)	4	Navy Responses, EPA, Comments, Proposed Plan, Draft
10	0737	04.01		5/21/1999	Letter	Letter: to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments dated April 26, 1999 on the draft Proposed Plan.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy Response to CTDEP Comments	Goss Cove Landfill (Site 8)	4	Navy Responses, CTDEP, Comments, Proposed Plan, Draft

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10	0738	04.01		6/3/1999	Memo	Memo (email): to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Community relations comments for the draft final Proposed Plan.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA-Community Relations Comments	Goss Cove Landfill (Site 8)	1	EPA, Community Relations, Comments, Proposed Plan, Draft Final
10	0739	04.01		6/7/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Mark Lewis, CTDEP. Re: State comments regarding draft final Proposed Plan.	Mark Lewis CTDEP	Mark Evans U.S. Navy, NorthDiv	CTDEP Comments	Goss Cove Landfill (Site 8)	2	CTDEP, Comments, Proposed Plan, Draft Final
10	0740	04.04		6/8/1999	Report	Final Proposed Plan for Goss Cove Landfill - Site 8.	Tetra Tech NUS, Inc.		Final Proposed Plan-Goss Cove Landfill	Goss Cove Landfill (Site 8)	5	Proposed Plan, Final, Goss Cove, Landfill
10	0725	04.01		6/14/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from Kymberlee Keckler, U.S. EPA. Re: Comments on the responses to U.S. EPA's April 5 letter regarding the draft final Feasibility Report.	Kymberlee Keckler U.S. EPA	Mark Evans U.S. Navy, NorthDiv	EPA Reply to Navy Responses to EPA Comments	Goss Cove Landfill (Site 8)	4	Navy, Responses, EPA, Reply, Comments, Feasibility Study, Draft Final
10	0870	03.01		6/14/1999	Letter	EPA comments on the Existing Data Summary Report for Basewide Groundwater Operable Unit RI for NSB-NLON dated May 1999	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Existing Data Summary Report for Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	4	EPA Comments, Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0741	04.01		6/15/1999	Letter	Letter: to Mark Evans, Navy NorthDiv NAVFAC, from James S. Citak, CTDEP, Department of Agriculture. Re: Proposed Plan.	James S. Citak CTDEP Department of Agriculture	Mark Evans U.S. Navy, NorthDiv	CTDEP, Department of Agriculture-Comments on Proposed Plan	Goss Cove Landfill (Site 8)	1	CTDEP, Department of Agriculture, Proposed Plan
10	0802	06.01		6/22/1999	Letter	EPA Comments on the Round 3 - Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office, Site 6	3	EPA, Comments, Round 3, Groundwater Monitoring, DRMO
10	0747	04.04		7/6/1999	Letter	CTDEP comments on the Proposed Plan for Goss Cove	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Goss Cove Landfill (Site 8)	2	CTDEP Comments, Proposed Plan, Goss Cove
10	0444	10.01		7/14/1999	Memo	Transmittal of RAB Meeting Minutes for May 12, 1999	Corey Rich TtNUS	RAB Members	RAB Meeting Minutes (5-12-99)-Transmittal		3	RAB Meeting, Minutes Transmittal
10	0726	04.01		7/15/1999	Letter	Letter: to Kymberlee Keckler, U.S. EPA, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to U.S. EPA letter of June 14, 1999 on the comment response letter of May 20, 1999 on the draft final Feasibility Study.	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler U.S. EPA	Navy Response to EPA's June 14, 1999 Reply	Goss Cove Landfill (Site 8)	6	Navy, Responses, EPA, Reply, Comments, Feasibility Study, Draft Final
10	0748	04.01		7/15/1999	Letter	Navy responses to EPA letter dated June 14, 1999 on the comment responses letter of May 20, 1999 on the Draft Final Feasibility Study for Goss Cove	Mark Evans U.S. Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Reply to EPA Comments on Navy Responses	Goss Cove Landfill (Site 8)	6	Navy Reply, EPA, Comments, Proposed Plan, Draft
10	0640	04.04	90	7/23/1999	Report	Draft Feasibility Study for Soil and Groundwater at the Lower Subase	EA Engineering	U.S. Navy, NorthDiv	Feasibility Study	Lower Subase	500	Draft Feasibility Study, Soil, Groundwater, Lower Subase
10	1001	04.01		7/23/1999	Letter	Transmittal of the Draft Feasibility Study for Soil and Groundwater at the Lower Subase NSB-NLON	Charles McLeod EA Engineering	Kymberlee Keckler USEPA I Mark Evans US Navy, NorthDiv J. Stump Mark Lewis CTDEP D. Ward J. Ropp EA	Transmittal of the Draft Feasibility Study for Soil and Groundwater at the Lower Subase NSB-NLON	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	1	Transmittal, Feasibility Study, Soil and Groundwater, Lower Subase
10	0650	06.02		7/27/1999	Report	Final Site Specific Health and Safety Plan - Soil and Sediment Removal Activities Containing DDT, DDE, DDD, Dieldrin, and Lead	Foster Wheeler	U.S. Navy, NorthDiv	Final Site Specific H&S Plan		25	Final H&S Plan, Site Specific, Soil, Sediment, Removal Activities, DDT, DDE, DDD, Dieldrin, Lead
10	0749	02.01		7/27/1999	Letter	Transmittal of letters from Bart Pearson regarding the Goss Cove Remediation, and the response letter from NSB-NLON (both letter attached)	Richard Conant NSB-NLON	Mark Evans US Navy, NorthDiv	Bart Pearson/Gos Cove Remediatoin Letter and NSB-NLON Response Letter-Transmittal	Goss Cove Landfill (Site 8)	10	Goss Cove, Remediation, Response, NSB-NLON, Pearson, Transmittal
10	0970	04.01		7/27/1999	Letter	EPA comments on the Draft Feasibility Study for the Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Feasibility Study for the Area A Weapons Center	Site 20	34	EPA, Comments, Feasibility Study, Site 20, Area A Weapons Center
10	0742	04.01		7/28/1999	Letter	Letter: to Mark Lewis, CTDEP, from Mark Evans, Navy NorthDiv NAVFAC. Re: Responses to CTDEP comments dated June 7, 1999 on the draft final Proposed Plan for Site 8.	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy Responses to CTDEP Comments	Goss Cove Landfill (Site 8)	3	Navy Responses, CTDEP, Comments, Proposed Plan, Draft Final
10	0871	03.01		7/28/1999	Letter	EPA comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI dated June 1999	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	9	EPA Comments, Work Plan/Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI

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10	0651	06.03		7/29/1999	Report	Final Master Site Health and Safety Plan	Foster Wheeler	U.S. Navy, NorthDiv	Final Master Site H&S Plan		50	Health and Safety Plan, Final Master Site
10	0641	06.05	267	8/10/1999	Report	Round 4 Groundwater Monitoring Report for Defense Reutilization and Marketing Office	TtNUS	U.S. Navy, NorthDiv	Round 4 Goundwater Monitoring Report	Defense Reutilization and Marketing Office (DRMO) (Site 6)	100	Groundwater Monitoring Report, Round 4, Defense Reutilization, Marketing Office
10	0801	06.01	267	8/10/1999	Letter	Transmittal for the Round 4 Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Mark Mengel Tetra Tech NUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 4 Groundwater Monitoring Report	Defense Reutilization Marketing Office, DRMO, Site 6	2	Transmittal, Round 4, Groundwater Monitoring, DRMO
10	0872	03.01		8/18/1999	Letter	CTDEP comments on TtNUS' December 8, 1998 request for additional remediation criteria for NSB-NLON	Elsie Patton CTDEP	Corey Rich TtNUS	CTDEP comments on Request for Additional Remediation Criteria	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	4	CTDEP Comments, Request for Additional Remediation Criteria, Remedial Investigation
10	0751	05.01		8/20/1999	Letter	EPA comments on the Draft Record of Decision for Goss Cove	Kymberlee Keckler U.S. EPA	Mark Evans US Navy, NorthDiv	EPA Comments	Goss Cove Landfill (Site 8)	40	EPA, Comments, Record of Decision, Draft, Goss Cove
10	0971	04.01		8/20/1999	Letter	CTDEP comments on the Draft Feasibility Study Site 20 - Area A Weapons Center dated June 1999	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Feasibility Study Site 20 - Area A Weapons Center	Site 20	13	CTDEP, Comments, Feasibility Study, Site 20, Area A Weapons Center
10	1058	03.01		8/24/1999	Letter	Transmittal with the Final Work Plan for Evaluation of Chemical Data for the Pier I Marine Railway	Gregory Tracey SAIC	Mark Evans US Navy, NorthDiv	Transmittal with the Final Work Plan for Evaluation of Chemical Data for the Pier I Marine Railway	Lower Subase - Pier 1	12	Transmittal, Work Plan, Chemical Data, Pier I Marine Railway
10	0800	06.01		8/30/1999	Letter	EPA Comments on the Round 4 - Groundwater Monitoring Report for the Defense Reutilization and Marketing Office	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments	Defense Reutilization Marketing Office, DRMO, Site 6	3	EPA, Comments, Round 4, Groundwater Monitoring Report, Defense Reutilization, Marketing Office
10	0873	03.01		9/2/1999	Responses	Navy response to EPA comments of June 14, 1999 regarding the Final Existing Data Summary Report for the Basewide Groundwater Operable Unit RI for NSB-NLON	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Final Existing Data Summary Report for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	4	EPA, Responses to Comments, Final Existing Data Summary Report, Basewide Groundwater Operable Unit RI
10	0835	03.01		9/7/1999	Letter	CTDEP comments on the Draft Work Plan/Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI for NSB-NLON rec'd by CTDEP on July 1, 1999.	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	10	CTDEP Comments, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
10	0752	05.01		9/8/1999	Letter	CTDEP comments on the Draft Record of Decision for Goss Cove	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments	Goss Cove Landfill (Site 8)	5	CTDEP, Comments, Record of Decision, Draft, Goss Cove
10	0972	04.01		9/14/1999	Responses	Responses to EPA's July 27, 1999 comments on the Draft Feasibility Study, Site 20 - Area A Weapons Center and Responses to CTDEP's August 20, 1999 comments on the Draft Feasibility Study, Site 20 - Area A Weapons Center	Charles McLeod EA Engineering	Mark Evans US Navy, NorthDiv	Responses to EPA's Comments and Responses to CTDEP's Comments on the Draft Feasibility Study, Site 20 - Area A Weapons Center	Site 20	122	EPA, Responses to Comments, CTDEP, Feasibility Study, Site 20, Area A Weapons Center
10	1002	04.01		9/20/1999	Letter	EPA request for an extension of the review period of the Lower Submarine Base Feasibility Study	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Request for an Extension of the Review Period for the Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	1	EPA, Request for Extension, Feasibility Study, Soil and Groundwater, Lower Subase
10	0164	04.03	275	9/23/1999	Report	Final Feasibility Study for Goss Cove Landfill, Naval Submarine Base - New London, Groton, Connecticut	Tetra Tech NUS, Inc.	U.S. Navy, NorthDiv	Goss Cove FS	Goss Cove Landfill (Site 8)	40	Feasibility Study, Goss Cove Landfill
10	0758	02.06		9/23/1999	Memo	Transmittal of the signed Action Memorandum for the Non-Time Critical Removal Action for the Over Bank Disposal Area, signed AM included	Andrew Stackpole NSB-NLON	CO, US Navy NorthDiv	Transmittal of the Signed Action Memo	OBDA	18	Transmittal, Action Memorandum, Signed, Non-Time Critical Removal Action, OBDA
10	1003	04.01		9/23/1999	Letter	CTDEP Request for Extension of Time for Submittal of State Comments Regarding Feasibility Study for Soil and Groundwater at the Lower Subase	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Request for an Extension of the Review Period for the Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	1	CTDEP, Request for Extension, Review Period, Feasibility Study, Soil and Groundwater, Lower Subase
10	1030	02.01		9/23/1999	Letter	Transmittal with signed Action Memorandum for the non-time critical removal action at Over Bank Disposal Area, Northeast	Andrew Stackpole NSB-NLON	Commanding Officer US Navy, NorthDiv	Transmittal with Signed Action Memorandum for the Non-Time Critical Removal Action at Over Bank Disposal Area, Northeast	Site 14	7	Transmittal with Signed Action Memorandum for the Non-Time Critical Removal Action at Over Bank Disposal Area, Northeast

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10	0750	05.01		9/24/1999	Letter	Navy responses to CTDEP comments dated September 8, 1999 on the Draft Record of Decision for Goss Cove	Mark Evans U.S. Navy, NorthDiv	Mark Lewis CTDEP	Navy Responses to CTDEP Comments	Goss Cove Landfill (Site 8)	6	Navy Responses, CTDEP, Comments, Record of Decision, Draft, Goss Cove
10	0743	05.02		9/30/1999	Report	Final ROD for Goss Cove Landfill - Site 8	Tetra Tech NUS, Inc.	Mark Evans U.S. Navy, NorthDiv	Final ROD	Goss Cove Landfill (Site 8)	50	ROD, Final, Goss Cove, Landfill, Site 8
10	0973	04.01		10/13/1999	Letter	EPA review comments on EA's response to EPA's July 27, 1999 comments on the Draft Feasibility Study for the Area A Weapons Center, Site 20	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Response to Comments on the Draft Feasibility Study for the Area A Weapons Center	Site 20	8	EPA, Review Comments, Response to Comments, Feasibility Study, Area A Weapons Center
10	1004	04.01		10/26/1999	Letter	EPA comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase dated July 1999	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	125	EPA, Comments, Feasibility Study, Soil and Groundwater, Lower Subase
10	1023	09.01		10/28/1999	Responses	Navy response to NOAA comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Mark Evans US Navy, NorthDiv	Kenneth Finkelstein NOAA	Navy Responses to NOAA Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Site 10, Site 11, Site 13, Site 17, Site 19, Site 21, Site 22, Site 24, Site 25	2	NOAA, Responses to Comments, Feasibility Study, Soil and Groundwater, Lower Subase
10	0874	03.01		11/16/1999	Responses	Navy response to CTDEP comments of September 7, 1999 regarding the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit Remedial Investigation at NSB-NLON	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Responses to CTDEP Comments on the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	16	CTDEP, Responses to Comments, Draft Work Plan/Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
10	0905	06.01	267	11/24/1999	Letter	Transmittal of the Annual Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Annual Groundwater Monitoring Report for DRMO	Site 6	1	Transmittal, Annual Groundwater Monitoring Report, DRMO
11	1086	06.05	267	11/24/1999	Report	Draft Annual Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Annual Groundwater Monitoring Report for DRMO, (This Draft Version Acting as the Final)	Site 6	154	Annual Groundwater Monitoring Report, DRMO
11	1006	04.01		11/29/1999	Letter	CTDEP comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase dated July 1999	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Site 10, Site 11, Site 13, Site 17, Site 19, Site 21, Site 22, Site 24, Site 25	38	CTDEP, Comments, Feasibility Study, Soil and Groundwater, Lower Subase
11	0974	04.01		12/7/1999	Responses	Navy response to EPA's October 13, 1999 comments on EA's comments to EPA's July 27, 1999 comments on the Draft Feasibility Study for the Area A Weapons Center, Site 20	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Feasibility Study for the Area A Weapons Center	Site 20	86	EPA, Responses to Comments, Feasibility Study, Area A Weapons Center
11	1125	06.05	267	12/7/1999	Report	Draft Round 5 Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA	(This Draft Version is Acting as the Final)	Site 6	110	Draft Groundwater Monitoring Report, DRMO
11	0875	03.01		12/15/1999	Responses	Navy response to EPA comments of July 28, 1999 regarding the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI for NSB-NLON	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	13	Responses to EPA Comments on the Draft Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI
11	0906	06.01		1/4/2000	Letter	EPA comments on the Annual Groundwater Monitoring Report for DRMO dated November 1999	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Annual Groundwater Monitoring Report for DRMO	Site 6	4	EPA, Comments, Annual Groundwater Monitoring Report, DRMO
11	0975	04.01		1/4/2000	Letter	EPA review comments on Navy's December 7, 1999 response to EPA October 13, 1999 comments regarding the Feasibility Study for the Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA Comments on the Feasibility Study for the Area A Weapons Center	Site 20	2	EPA, Review Comments, Responses to Comments, Feasibility Study, Area A Weapons Center
11	0907	06.01		1/5/2000	Letter	EPA Technical Review Comments on the Draft Round 5 Groundwater Monitoring Report for DRMO dated December 1999	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Round 5 Groundwater Monitoring Report for DRMO	Site 6	3	EPA, Comments, Draft Round 5 Groundwater Monitoring Report, DRMO
11	0834	03.01		1/10/2000	Letter	EPA review comments to Navy's response to EPA's comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI at NSB-NLON dated December 14, 2001.	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on the Navy's Responses to EPA's Comments on the Work Plan/Sampling and Analysis Plan	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	3	EPA Review Comments, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
11	1031	10.05	257	1/10/2000	Meeting Minutes	Meeting minutes from the November 1999 Restoration Advisory Board (RAB) meeting	Matthew Bartman TtNUS	RAB Members	Minutes for the November 1999 RAB Meeting	NA	7	Meeting Minutes, November 1999, RAB Meeting

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11	0908	06.01	267	1/27/2000	Letter	Transmittal of the Round 6 Groundwater Monitoring Report at DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 6 Groundwater Monitoring Report at DRMO	Site 6	2	Transmittal, Round 6, Groundwater Monitoring Report, DRMO
11	1087	06.05	267	1/27/2000	Report	Draft Round 6 Groundwater Monitoring Report at DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 6 Groundwater Monitoring Report at DRMO, (This Draft Version is Acting as a Final)	Site 6	108	Round 6, Groundwater Monitoring Report, DRMO
11	1005	09.01		2/1/2000	Letter	NOAA comments on the Feasibility Study for Soil and Groundwater at the Lower Subase dated July 1999	Kenneth Finkelstein NOAA	Kymberlee Keckler USEPA I Mark Evans US Navy	NOAA Comments on the Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	2	NOAA, Comments, Feasibility Study, Soil and Groundwater, Lower Subase
11	1024	04.01		2/1/2000	Responses	Navy response to EPA October 26, 1999 comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Responses to EPA Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	27	EPA, Responses to Comments, Feasibility Study, Soil and Groundwater, Lower Subase
11	0832	03.01	312	2/9/2000	Memo	Transmittal submitting the Draft Final Work Plan/Sampling and Analysis Plan for the Site Wide Groundwater Operable Unit RI at NSB-NLON	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP Kenneth Finkelstein NOAA	Transmittal of Draft Final Work Plan/Sampling and Analysis Plan for the Site-Wide Groundwater Operable Unit	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	2	Transmittal, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
11	0909	06.01		2/23/2000	Letter	EPA comments on the Round 6 Groundwater Monitoring Report for the DRMO dated January 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 6 Groundwater Monitoring Report for the DRMO	Site 6	3	EPA, Comments, Round 6, Groundwater Monitoring Report, DRMO
11	0894	06.01	203	2/25/2000	Letter	Transmittal of the Round 1 Groundwater Monitoring Report for the Area A Landfill for the Installation Restoration Program NSB-NLON	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 1 Groundwater Monitoring Report for the Area A Landfill	Site 2	2	Transmittal, Round 1 Groundwater Monitoring Report, Area A Landfill
11	1081	06.05	203	2/25/2000	Report	Draft Round 1 Groundwater Monitoring Report for the Area A Landfill for the Installation Restoration Program NSB-NLON	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 1 Groundwater Monitoring Report for the Area A Landfill, (This Draft Version is Acting as a Final)	Site 2	298	Round 1, Groundwater Monitoring Report, Area A Landfill
11	1065	03.04		3/1/2000	Report	Final Evaluation of Chemical Data for the Pier 1 Marine Railway	SAIC	US Navy	Final Evaluation of Chemical Data for the Pier 1 Marine Railway	Lower Subase - Pier 1	125	Chemical Data, Pier 1 Marine Railway
11	1064	03.01		3/2/2000	Letter	Transmittal of the Final Evaluation of Chemical Data for the Pier 1 Marine Railway	Gregory Tracey SAIC	Mark Evans US Navy, NorthDiv	Transmittal of the Final Evaluation of Chemical Data for the Pier 1 Marine Railway	Lower Subase - Pier 1	1	Transmittal, Chemical Data, Pier 1 Marine Railway
11	0833	03.01		3/9/2000	Letter	EPA comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI for NSB-NLON dated February 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	3	EPA Comments, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
11	0976	04.01		3/16/2000	Letter	Transmittal of revised sections of the Draft Final Feasibility Study, Site 20, Area A Weapons Center	Charles McLeod EA Engineering	Mark Evans US Navy, NorthDiv	Transmittal of Revised sections of the Draft Final Feasibility Study for Area A Weapons Center	Site 20	1	Transmittal, Revised Sections, Feasibility Study, Area A Weapons Center
11	0895	06.01		3/20/2000	Letter	EPA comments on the Round 1 Groundwater Monitoring Report for Area A Landfill (letter undated)	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 1 Groundwater Monitoring Report for Area A Landfill	Site 2	5	EPA Comments, Round 1, Groundwater Monitoring Report, Area A Landfill
11	1007	04.01		3/20/2000	Letter	EPA review comments on Navy's February 2000 response to EPA's October 26, 1999 comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA's Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	5	EPA, Review Comments, Responses to Comments, Feasibility Study, Soil and Groundwater, Lower Subase
11	0977	04.01		4/3/2000	Letter	EPA comments on the Draft Final Feasibility Study for the Area A Weapons Center dated February 2000 with modifications dated March 27, 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Final Feasibility Study for the Area A Weapons Center	Site 20	8	EPA, Comments, Feasibility Study, Area A Weapons Center
11	1032	10.05		4/7/2000	Meeting Minutes	Meeting minutes and presentations from the February 2, 2000 RAB Meeting. Attendees from NSB-NLON, PAO NSB-NLON, Navy, EPA, CTDEP, TtNUS, FW, Ledgelight Health District, RAB	Andrew Stackpole NSB-NLON	Distribution	Minutes and Presentations from the February 2, 2000 RAB Meeting	NA	31	Meeting Minutes, Presentations, February 2, 2000, RAB Meeting

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11	0978	06.01		4/13/2000	Letter	Transmittal of the Draft Proposed Remedial Action Plan for Site 20 - Area A Weapons Center	Charles McLeod EA Engineering	Kymberlee Keckler USEPA I	Transmittal of the Draft Proposed Remedial Action Plan for Site 20 - Area A Weapons Center	Site 20	1	Transmittal, Proposed Remedial Action Plan, Site 20, Area A Weapons Center
11	0980	06.01		4/24/2000	Letter	EPA comments on the Proposed Plan for Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Proposed Plan for Area A Weapons Center	Site 20	6	EPA, Comments, Proposed Plan, Area A Weapons Center
11	0981	06.01		4/26/2000	Letter	CTDEP comments on the Draft Proposed Remedial Action Plan for Site 20 - Area A Weapons Center dated April 2000	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Proposed Remedial Action Plan for Site 20 - Area A Weapons Center	Site 20	4	CTDEP, Comments, Proposed Remedial Action Plan, Site 20, Area A Weapons Center
11	0896	06.01	203/267	4/28/2000	Letter	Transmittal of the Draft Round 2 Groundwater Monitoring Report for the Area A Landfill and Draft Round 7 Groundwater Monitoring Report at the Defense Reutilization and Marketing Office (DRMO) NSB-NLON	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 2 Groundwater Monitoring Report for the Area A Landfill and Round 7 Groundwater Monitoring Report at the Defense Reutilization and Marketing Office	Sites 2 and 6	2	Transmittal, Round 2, Groundwater Monitoring Report, Area A Landfill, Round 7, Defense Reutilization and Marketing Office
11	1082	06.05	203	4/28/2000	Report	Draft Round 2 Groundwater Monitoring Report for the Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Draft Round 2 Groundwater Monitoring Report for the Area A Landfill, (This Draft Version Acting as a Final)	Site 2	149	Draft, Round 2, Groundwater Monitoring Report, Area A Landfill
11	1123	06.05	267	4/28/2000	Report	Draft Round 7 Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA	Draft Round 7 Groundwater Monitoring Report for DRMO, (This Draft Version Acting as a Final)	Site 6	138	Draft, Round 7, Groundwater Monitoring Report, DRMO
11	1016	04.01		5/1/2000	Letter	Technical Rationale for Calculation of Alternative Pollutant Mobility Criteria for Lower Subase, NLON	Charles McLeod EA Engineering	Mark Lewis CTDEP	Technical Rationale for Calculation of Alternative Pollutant Mobility Criteria for Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	8	Alternative Pollutant Mobility Criteria, Lower Subase, Feasibility Study
11	1066	03.04	312	5/1/2000	Report	Final Work Plan and Sampling and Analysis Plan for Basewide Groundwater Operable Unit Remedial Investigation	TtNUS	US Navy	Work Plan and Sampling and Analysis Plan for Basewide Groundwater Operable Unit Remedial Investigation	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1000	Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit Remedial Investigation
11	0983	04.01		5/3/2000	Responses	Navy response to EPA's April 3, 2000 comments regarding the Draft Final Feasibility Study for the Area A Weapons Center - Site 20	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Final Feasibility Study for the Area A Weapons Center	Site 20	16	EPA, Responses to Comments, Feasibility Study, Area A Weapons Center
11	0897	06.01		5/5/2000	Responses	Navy Response to EPA January 4, 2000 comments regarding the Draft Annual Groundwater Monitoring Report for the DRMO site NSB-NLON	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA's January 4, 2000 Comments on the Draft Annual Groundwater Monitoring Report for the DRMO	Site 6	5	EPA, Responses to Comments, Draft Annual Groundwater Monitoring Report, DRMO
11	0982	06.02		5/17/2000	Report	Final Proposed Remedial Action Plan for Site 20 - Area A Weapons Center	EA Engineering	US Navy	Final Proposed Remedial Action Plan for Site 20 - Area A Weapons Center	Site 20	9	Proposed Remedial Action Plan, Site 20, Area A Weapons Center
11	0984	06.01		5/17/2000	Responses	Responses to CTDEP April 26, 2000 and May 12, 2000 comments on the Proposed Remedial Action Plan for Site 20 - Area A Weapons Center (responses included with letter) and Transmittal of the Final Proposed Remedial Action Plan for Site 20 - Area A Weapons Station (Final PRAP is listed separate from this letter)	Charles McLeod EA Engineering	Mark Evans US Navy, NorthDiv	Responses to CTDEP Comments on the Proposed Remedial Action Plan for Site 20 and Transmittal of the Final Proposed Remedial Action Plan for Site 20	Site 20	7	CTDEP, Response to Comments, Porposed Remedial Action Plan, Site 20, Transmittal
11	0836	03.01	312	5/19/2000	Letter	Transmittal memorandum submitting the Final Work Plan/Sampling and Analysis Plan for Basewide Groundwater Operable Unit RI for NSB-NLON	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP Kenneth Finkelstein NOAA	Transmittal of Final Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	Transmittal Memorandum, Final Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI
11	0898	06.01		5/22/2000	Letter	EPA comments on the Round 2 Groundwater Monitoring Report for Area A Landfill dated April 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 2 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 2, Groundwater Monitoring Report, Area A Landfill
11	0910	06.01		5/23/2000	Letter	EPA comments on the Draft Round 7 Groundwater Monitoring Report for the DRMO dated April 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Draft Round 7 Groundwater Monitoring Report for the DRMO	Site 6	3	EPA, Comments, Draft Round 7 Groundwater Monitoring Report, DRMO

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11	0985	04.01		5/30/2000	Letter	EPA review comments on Navy's May 3, 2000 response to EPA's April 3, 2000 comments on the Draft Feasibility Study Site 20 - Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA Comments on the Draft Feasibility Study Site 20 - Area A Weapons Center	Site 20	4	EPA, Review Comments, Responses to Comments, Feasibility Study, Site 20, Area A Weapons Center
11	1063	04.03		6/1/2000	Report	Final Feasibility Study Site 20 - Area A Weapons Center	EA Engineering	US Navy	Feasibility Study Site 20 - Area A Weapons Center	Site 20	200	Feasibility Study, Site 20, Area A Weapons Center
11	0986	05.01		6/6/2000	Letter	EPA comments on the Draft Record of Review for the Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Record of Decision for the Area A Weapons Center	Site 20	66	EPA Comments on the Draft Record of Decision for the Area A Weapons Center
11	0987	05.01		6/12/2000	Letter	CTDEP comments on the Draft Record of Decision Site 20 - Area A Weapons Center	Mark Lewis CTDEP	Mark Evans US Navy, NorthDiv	CTDEP Comments on the Draft Record of Decision Site 20 - Area A Weapons Center	Site 20	6	CTDEP, Comments, Record of Decision, Site 20, Area A Weapons Center
11	0837	03.01		6/15/2000	Letter	EPA comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI for NSB-NLON dated May 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	4	EPA Comments, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
11	0989	05.01		6/28/2000	Letter	Transmittal of the signed Record of Decision for the Area A Weapons Center	Andrew Stackpole NSB-NLON	Kymberlee Keckler USEPA I	Transmittal of Signed Record of Decision for the Area A Weapons Center	Site 20	2	Transmittal, Record of Decision, Area A Weapons Center
11	0990	05.02		6/29/2000	Report	Fully executed Record of Decision for the Area A Weapons Center	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	Fully Executed Record of Decision for the Area A Weapons Center	Site 20	93	Record of Decision, Area A Weapons Center
11	1033	10.05		7/13/2000	Meeting Minutes	Meeting minutes from the May 3, 2000 RAB meeting. Attendees from NSB-NLON, Navy, EPA, CTDEP, FW, Ledgelight Health District, RAB	Andrew Stackpole NSB-NLON	Distribution	Minutes from the May 3, 2000 RAB Meeting	NA	8	Meeting Minutes, May 3, 2000, RAB Meeting
11	0839	03.01	312	8/16/2000	Responses	Navy responses to EPA's comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI at NSB-NLON dated May 2000	Dave Cercone TtNUS	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the Work Plan/Sampling and Analysis Plan for the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	3	Responses to Comments, Work Plan, Sampling and Analysis Plan, Basewide Groundwater Operable Unit RI
11	1034	10.05		8/23/2000	Meeting Minutes	Meeting minutes from the August 9, 2000 RAB meeting. Attendees from NSB-NLON, Navy, EPA, Town of Groton, TtNUS, FW, RAB	Andrew Stackpole NSB-NLON	Distribution	Minutes from the August 9, 2000 RAB Meeting	NA	5	Meeting Minutes, August 9, 2000, RAB Meeting
11	0899	06.01	203/267	8/25/2000	Letter	Transmittal of the Round 3 Groundwater Monitoring Report for the Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 3 Groundwater Monitoring Report for the Area A Landfill	Site 2	2	Transmittal, Round 3, Groundwater Monitoring Report, the Area A Landfill
11	1083	06.05	203	8/25/2000	Report	Round 3 Groundwater Monitoring Report for the Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 3 Groundwater Monitoring Report for the Area A Landfill, Draft acting as final	Site 2	212	Round 3, Groundwater Monitoring Report, Area A Landfill
11	0900	06.01		9/19/2000	Letter	EPA comments on the Round 3 Groundwater Monitoring Report for Area A Landfill dated August 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 3 Groundwater Monitoring Report for Area A Landfill	Site 2	5	EPA, Comments, Round 3, Groundwater Monitoring Report, Area A Landfill
11	0911	06.01	267	10/25/2000	Letter	Transmittal of the Draft Year 2 Annual Groundwater Monitoring Report at the DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Year 2 Annual Groundwater Monitoring Report at the DRMO	Site 6	1	Transmittal, Year 2, Annual Groundwater Monitoring Report, DRMO
11	1122	06.05	267	10/25/2000	Report	Draft Year 2 Annual Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA	Draft Year 2 Annual Groundwater Monitoring Report for DRMO, (This Draft Version Acting as a Final)	Site 6	166	DRMO, Draft Year 2 Groundwater Monitoring Report, Final Report
11	0912	06.01	267	12/14/2000	Letter	Transmittal of the Round 9 Groundwater Monitoring Report at the DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 9 Groundwater Monitoring Report at the DRMO	Site 6	1	Transmittal, Round 9, Groundwater Monitoring Report, DRMO
11	1088	06.05	267	12/14/2000	Report	Draft Round 9 Groundwater Monitoring Report at the DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 9 Groundwater Monitoring Report at the DRMO, (This Draft Version Acting as a Final)	Site 6	122	Round 9, Groundwater Monitoring Report, DRMO
11	0913	06.01		12/18/2000	Letter	EPA comments on the Draft Year 2 Annual Groundwater Monitoring Report for the DRMO dated October 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Year 2 Annual Groundwater Monitoring Report for the DRMO	Site 6	7	EPA, Comments, Year 2, Annual Groundwater Monitoring Report, DRMO

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12	0914	06.01		1/3/2001	Letter	EPA comments on the Round 9 Groundwater Monitoring Report for the DRMO dated December 2000	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 9 Groundwater Monitoring Report for the DRMO	Site 6	4	EPA, Comments, Round 9, Groundwater Monitoring Report, DRMO
12	1102	06.01		1/9/2001	Responses	Response to EPA comments Area A Downstream/OBDA Remediation Removal Action Report	Foster Wheeler	Kymberlee Keckler USEPA	Navy Responses to EPA comments on the Area A Downstream/OBDA Remediation Removal Action Report	Site 3	16	Responses to comments, Removal Action Report, Area A Downstream /OBDA
12	0825	05.01	816	1/10/2001	Letter	Navy notification of the date to finalize the first 5-Year Review for NSB-NLON	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	Navy Notification of finalization of First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	2	First Five-Year Review
12	0901	06.01	203	2/8/2001	Letter	Transmittal of the Draft Year 1 Groundwater Monitoring Report for the Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Year 1 Groundwater Monitoring Report for the Area A Landfill	Site 2	1	Transmittal, Year 1, Groundwater Monitoring Report, Area A Landfill
12	1035	10.05		2/14/2001	Meeting Minutes	Meeting minutes from the November 7, 2000 and the February 7, 2001 RAB Meetings. November 7, 2000 attendees from RAB, EPA, CTDEP, Navy, NSB-NLON, FW. February 7, 2001 attendees from RAB, EPA, CTDEP, Navy, NSB-NLON, FW, TtNUS, EA	Andrew Stackpole NSB-NLON	Distribution	Minutes from the November 7, 2000 and the February 7, 2001 RAB Meetings	NA	24	Meeting Minutes, November 7, 2000, February 7, 2001, RAB Meeting
12	1012	04.01		2/23/2001	Letter	Methodology Used for Deriving Human Health Risk-Based Preliminary Remediation Goals and Cleanup Goals for Soil and Groundwater at Lower Subase	Charles McLeod EA Engineering	Mark Lewis CTDEP	Methodology Used for Deriving Human Health Risk-Based Preliminary Remediation Goals and Cleanup Goals for Soil and Groundwater at Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	11	Human Health Risk-Based Preliminary Remediation Goals and Cleanup Goals, Soil and Groundwater, Lower Subase Feasibility Study
12	1013	04.01		2/23/2001	Letter	Revised Preliminary Remedial Goals, Alternate Surface Water Protection and Pollutant Mobility Criteria Derivation in Support of the Lower Subase Feasibility Study	Charles McLeod EA Engineering	Mark Lewis CTDEP Kymberlee Keckler USEPA I	Revised Preliminary Remedial Goals, Alternate Surface Water Protection and Pollutant Mobility Criteria Derivation in Support of the Lower Subase Feasibility Study	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	2	Preliminary Remedial Goals, Alternate Surface Water Protection and Pollutant Mobility Criteria, Lower Subase, Feasibility Study
12	1014	04.01		2/23/2001	Letter	Technical Rationale for Calculation of Alternative Pollutant Mobility Criteria for Lower Subase, NLON	Charles McLeod EA Engineering	Mark Lewis CTDEP	Technical Rationale for Calculation of Alternative Pollutant Mobility Criteria for Lower Subase, NSB-NLON	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 26	9	Alternative Pollutant Mobility Criteria, Lower Subase Feasibility Study
12	1015	04.01		2/23/2001	Letter	Technical Rationale for Calculation of Alternative Surface Water Protection Criteria for Lower Subase, NLON	Charles McLeod EA Engineering	Mark Lewis CTDEP	Technical Rationale for Calculation of Alternative Surface Water Protection Criteria for Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 27	14	Alternative Surface Water Protection Criteria, Lower Subase Feasibility Study
12	1025	04.01		2/23/2001	Responses	Navy response to CTDEP November 29, 1999 comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Navy Responses to CTDEP Comments on the Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	31	CTDEP, Responses to Comments, Feasibility Study, Soil and Groundwater, Lower Subase
12	1061	06.08		2/23/2001	Report	Final Remedial Action Completion Report for Area A Downstream/OBDA Remediation with Transmittal Letter	Foster Wheeler	US Navy	Remedial Action Completion Report for Area A Downstream/OBDA Remediation	Site 3	150	Remedial Action Completion Report, Site 3
12	0841	09.01		2/27/2001	Letter	NOAA natural resource concerns regarding the Basewide Groundwater OU RI	Kenneth Finkelstein NOAA	David Cercone TtNUS	Fax to Mark Evans from Corey Rich on March 7, 2001, Fax Regarding NOAA Natural Resource Concerns	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	NOAA, Natural Resource Concerns, Basewide Groundwater OU RI
12	0902	06.01		3/1/2001	Letter	EPA comments on the Draft Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	8	EPA, Comments, Year 1, Annual Groundwater Monitoring Report, Area A Landfill
12	1119	06.01	275	3/6/2001	Letter	Transmittal Letter for Final Groundwater Monitoring Plan for Site 8 - Goss Cove Landfill	Robert Mertz, Tetra Tech NUS	Kymberlee Keckler USEPA	Transmittal Letter for Final Groundwater Monitoring Plan for Goss Cove Landfill	Site 8	2	Transmittal, Final, Groundwater Monitoring Plan, Goss Cove Landfill
12	1120	06.05	275	3/6/2001	Report	Final Groundwater Monitoring Plan for Goss Cove Landfill	Robert Mertz, Tetra Tech NUS	Kymberlee Keckler USEPA	Final Groundwater Monitoring Plan for Goss Cove Landfill	Site 8	250	Final, Groundwater Monitoring Plan, Goss Cove Landfill
12	0915	06.01	257	3/7/2001	Letter	Transmittal of Round 10 Groundwater Monitoring Report at the DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Round 10 Groundwater Monitoring Report at the DRMO	Site 6	1	Transmittal, Round 10, Groundwater Monitoring Report, DRMO

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12	1089	06.05	257	3/7/2001	Report	Draft Round 10 Groundwater Monitoring Report at the DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 10 Groundwater Monitoring Report at the DRMO, (This Draft Version Acting as a Final)	Site 6	100	Round 10, Groundwater Monitoring Report, DRMO
12	0903	06.01	257	3/19/2001	Letter	Transmittal of the Round 5 Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 5 Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Round 5, Groundwater Monitoring Report, Area A Landfill
12	1084	06.05	257	3/19/2001	Report	Draft Round 5 Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 5 Groundwater Monitoring Report for Area A Landfill, (This Draft Version Acting as a Final)	Site 2	182	Round 5, Groundwater Monitoring Report, Area A Landfill
12	0968	06.01		3/21/2001	Responses	Navy Response to EPA December 18, 2000 comments regarding the Draft Year 2 Annual Groundwater Monitoring Report for DRMO	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Year 2 Annual Groundwater Monitoring Report for DRMO	Site 6	6	EPA, Response to Comments, Year 2, Annual Groundwater Monitoring Report, DRMO
12	0924	06.01		3/26/2001	Letter	EPA comments on the Round 10 Groundwater Monitoring Report for DRMO dated March 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 10 Groundwater Monitoring Report for DRMO	Site 6	4	EPA, Comments, Round 10, Groundwater Monitoring Report, DRMO
12	1008	04.01		3/28/2001	Letter	EPA's general comments about the memos dated February 23, 2001 RE: Methodology used for deriving human health risk-based PRGs and Clean-up Goals at Lower Subase; RE: Technical rationale for calculation of alternative surface water protection criteria for Lower Subase; and RE: Technical rationale for calculation of alternative pollutant mobility criteria for Lower Subase	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on memos dated February 23, 2001 regarding metholology for deriving Human Health Risk-Based PRGs, calculating Alternative Surface Water Protection Criteria and calculating Alternative Pollutant Mobility Criteria for Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	14	EPA, Comments, Memos, Human Health Risk-Based PRGs, Alternative Surface Water Protection Criteria, Alternative Pollutant-Mobility Criteria, Lower Subase Feasibility Study
12	0925	06.01		3/29/2001	Letter	EPA comments on the Groundwater Monitoring Plan for Goss Cove Landfill dated March 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Groundwater Monitoring Plan for Goss Cove Landfill	Site 8	3	EPA, Comments, Groundwater Monitoring Plan, Goss Cove Landfill
12	0842	03.01		3/30/2001	Letter	EPA comments on the Draft Final Basewide Groundwater Operable Unit Remedial Investigation Report dated February 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Draft Final Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	34	EPA, Comments, Basewide Groundwater Operable Unit RI
12	0926	06.01		4/12/2001	Letter	EPA comments on the Round 5 Groundwater Monitoring Report for Area A Landfill dated March 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 5 Groundwater Monitoring Report for Area A Landfill	Site 2	4	EPA, Comments, Round 5, Groundwater Monitoring Report, Area A Landfill
12	0916	06.01		4/17/2001	Letter	EPA review comments on Navy's response to EPA December 18, 2000 comments for the Draft Year 2 Annual Groundwater Monitoring Report for the DRMO - Site 6	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Response to EPA Comments for the Draft Year 2 Annual Groundwater Monitoring Report for the DRMO	Site 6	1	EPA, Review Comments, Response to Comments, Year 2, Annual Groundwater Monitoring Report, DRMO
12	0917	06.01	257	5/10/2001	Letter	Transmittal of Round 11 Groundwater Monitoring Report at the DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Round 11 Groundwater Monitoring Report at the DRMO	Site 6	1	Transmittal, Round 11, Groundwater Monitoring Report, DRMO
12	1090	06.05	257	5/10/2001	Report	Draft Round 11 Groundwater Monitoring Report at the DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 11 Groundwater Monitoring Report at the DRMO, (This Draft Version Acting as a Final)	Site 6	100	Round 11, Groundwater Monitoring Report, DRMO
12	0843	03.01	312	5/16/2001	Responses	Navy responses to EPA's March 30, 2001 comments on the Draft Final Basewide Groundwater Operable Unit RI for NSB-NLON	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Responses to EPA's Comments on the Draft Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	53	EPA, Responses to Comments, Draft Basewide Groundwater Operable Unit RI
12	0921	06.01		5/21/2001	Letter	Transmittal of the Round 6 Groundwater Monitoring Report at Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 6 Groundwater Monitoring Report at Area A Landfill	Site 2	1	Transmittal, Round 6 Groundwater Monitoring Report, Area A Landfill
12	1062	12.04		5/21/2001	Report	Final Closeout Report for Storm Sewer Rehabilitation	Foster Wheeler	US Navy	Final Closeout Report for Storm Sewer Rehabilitation	Site 23	200	Closeout Report, Storm Sewer Rehabilitation, Site 23
12	1091	06.05		5/21/2001	Report	Draft Round 6 Groundwater Monitoring Report at Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Round 6 Groundwater Monitoring Report at Area A Landfill, (This Draft Version Acting as a Final)	Site 2	182	Round 6, Groundwater Monitoring Report, Area A Landfill

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12	0904	06.01	203	5/22/2001	Letter	Transmittal of the Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	2	Transmittal, Year 1, Annual Groundwater Monitoring Report, Area A Landfill
12	1085	06.05	203	5/22/2001	Report	Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Mark Mengel TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	262	Year 1, Annual Groundwater Monitoring Report, Area A Landfill
12	0918	06.01		5/29/2001	Letter	EPA comments on the Round 11 Groundwater Monitoring Report for the DRMO dated May 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 11 Groundwater Monitoring Report for the DRMO	Site 6	2	EPA, Comments, Round 11, Groundwater Monitoring Report, DRMO
12	1036	10.05		5/29/2001	Meeting Minutes	Meeting minutes from the May 9, 2001 RAB Meeting. Attendees from RAB, EPA, CTDEP, NSB-NLON, FW, Bart Pearson	Andrew Stackpole NSB-NLON	Distribution	Minutes from the May 9, 2001 RAB Meeting	NA	3	Meeting Minutes, May 9, 2001, RAB Meeting
12	0844	03.01		6/11/2001	Letter	EPA review comments to Navy May 16, 2001 response to EPA comments on the Draft Final Basewide Groundwater Operable Unit RI dated February 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments to Responses to Comments on the Draft Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	6	EPA, Review Comments, Draft Basewide Groundwater Operable Unit RI
12	0922	06.01		6/14/2001	Letter	EPA comments on the Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill dated May 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Final Year 1 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Year 1, Annual Groundwater Monitoring Report, Area A Landfill
12	0923	06.01		6/14/2001	Letter	EPA comments on the Round 6 Groundwater Monitoring Report for Area A Landfill dated May 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Round 6 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 6, Groundwater Monitoring Report, Area A Landfill
12	1136	06.01	63	6/14/2001	Responses	Response to EPA comments on Draft Long Term Wetland Monitoring Plan for Area A Downstream/OBDA	Foster Wheeler	K. Keckler, EPA	Response to EPA comments on Draft Long Term Wetland Monitoring Plan for Area A Downstream/OBDA	Site 3	2	Over Bank Disposal Area
12	0826	05.01	816	7/10/2001	Letter	EPA comments on the First Five-Year Review for NSB-NLON dated June 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	10	EPA Comments, First Five-Year Review
12	0991	06.01		7/23/2001	Letter	EPA comments on the Remedial Action Work Plan for Soil and Sediment Removal at Operable Unit 7 - Area A Weapons Center - Site 20 dated June 28, 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Remedial Action Work Plan for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	4	EPA, Comments, Remedial Action Work Plan, Soil and Sediment Removal, Operable Unit 7, Area A Weapons Center, Site 20
12	0845	03.01	312	8/15/2001	Letter	Transmittal submitting the Revised Basewide Groundwater Operable Unit RI for NSB-NLON	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal for Revised Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	Transmittal, Basewide Groundwater Operable Unit RI
12	1130	10.05		8/27/2001	Meeting Minutes	Meeting Minutes from RAB Meeting held on 8/8/01 with Transmittal Letter	Navy, NSB-NLON	RAB Members	Meeting Minutes for the August 8, 2001 RAB Meeting	NA	4	Meeting Minutes, RAB Meeting, August 8, 2001
12	1037	10.05		8/28/2001	Meeting Minutes	Handouts and sign-in sheet for the August 8, 2001 RAB Meeting	Andrew Stackpole NSB-NLON	Distribution	Handouts and Sign-In sheet that were erroneously omitted from the August 8, 2001 RAB Meeting Minutes	NA	21	Handouts and Sign-In Sheet, August 8, 2001, RAB Meeting
12	0846	03.01	312	8/29/2001	Letter	Transmittal submitting Revised Appendix C tables for the Basewide Groundwater Operable Unit RI	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal for Revised Appendix C Tables of the Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	Transmittal, Revised Appendix C Tables, Basewide Groundwater Operable Unit RI
12	0827	05.01	816	8/31/2001	Responses	Navy responses to EPA's comments on the Draft First Five-Year Review Report for CERCLA Sites at NSB-NLON	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	21	Responses to Comments, First Five-Year Review
12	1135	06.01	63	9/14/2001	Letter	Transmittal of Final Long Term Monitoring Plan	Mark Miller, Foster Wheeler	NORTHDIV	Transmittal of Final Long Term Monitoring Plan	Site 3	1	SD-18, Over Bank Disposal Area
12	1137	06.05	63	9/14/2001	Report	Final Long Term Wetland Monitoring Plan Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Long Term Wetland Monitoring Plan Area A Downstream/OBDA	Site 3	56	Over Bank Disposal Area, upper pond, lower pond, wetland

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12	0847	03.01		9/18/2001	Letter	EPA comments on the Revised Basewide Groundwater Operable Unit Remedial Investigation	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Revised Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	4	EPA Comments, Basewide Groundwater Operable Unit RI
12	0927	06.01	816	9/20/2001	Letter	Transmittal of Round 7 Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Round 7 Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Round 7, Groundwater Monitoring Report, Area A Landfill
12	0828	05.01	816	9/24/2001	Letter	EPA review comments to Navy's response to EPA Comments on the Draft First Five-Year Review Report for NSB-NLON	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments to Navy Response to Comments on First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	1	Review Comments, First Five-Year Review
12	0992	04.01		9/24/2001	Letter	EPA comments on the Final Remedial Action Work Plan for the Soil and Sediment Removal at Operable Unit 7 - Area A Weapons Center - Site 20 dated September 14, 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Final Remedial Action Work Plan for the Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	4	EPA, Comments, Remedial Action Work Plan, Soil and Sediment Removal, Operable Unit 7, Area A Weapons Center, Site 20
12	0928	06.01		10/11/2001	Letter	EPA comments on the Round 7 Groundwater Monitoring Report for Area A Landfill dated September 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 7 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 7, Groundwater Monitoring Report, Area A Landfill
12	1027	02.01		10/11/2001	Letter	EPA comments on the Draft Removal Action Report for Over Bank Disposal Area Northeast Remediation at NSB-NLON dated August 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Removal Action Report for Over Bank Disposal Area Northeast Remediation at NSB-NLON	Site 14	4	EPA, Comments, Removal Action Report, Over Bank Disposal Area Northeast, Remediation
12	0849	03.01		10/20/2001	Letter	EPA's review comments to TtNUS' responses to EPA comments on the Draft Final Basewide Groundwater Operable Unit RI	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments to Responses to Comments on the Draft Final Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	2	Review Comments, Responses to Comments, Basewide Groundwater Operable Unit RI
12	1009	04.01		10/30/2001	Letter	Request for approval of Site-specific dilution factors for pollutant mobility criteria and surface water protection criteria, Lower Subase Feasibility Study	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Request for Approval of Site-Specific Dilution Factors for Pollutant Mobility Criteria and Surface Water Protection Criteria, Lower Subase Feasibility Study	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	20	Site-Specific Dilution Factors, Pollutant Mobility Criteria, Surface Water Protection Criteria, Lower Subase, Feasibility Study
12	0848	03.01	312	10/31/2001	Responses	Navy responses to EPA's September 18, 2001 comments on the second draft of the Basewide Groundwater Operable Unit RI	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Responses to EPA's Comments on Second Draft Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	7	Responses to Comments, Basewide Groundwater Operable Unit RI
12	1011	04.01		11/5/2001	Letter	EPA comments on the Revised Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Revised Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	20	EPA, Comments, Feasibility Study, Soil and Groundwater, Lower Subase
12	0829	05.01	816	11/6/2001	Letter	EPA Comments on the First Five-Year Review for NSB-NLON dated October 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	2	EPA Comments, First Five-Year Review
12	0929	06.01	816	11/20/2001	Letter	Transmittal of the Final Round 7 Groundwater Monitoring Report for Area A Landfill, with Navy response to EPA October 11, 2001 comments	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Round 7 Groundwater Monitoring Report for Area A Landfill and Responses to Comments	Site 2	2	Transmittal, Round 7, Groundwater Monitoring Report, Area A Landfill, Responses to Comments
12	1092	06.05	816	11/20/2001	Report	Final Round 7 Groundwater Monitoring Report for Area A Landfill, with TtNUS response to EPA December 7, 2001 comments	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Final Round 7 Groundwater Monitoring Report for Area A Landfill and Responses to Comments	Site 2	226	Round 7, Groundwater Monitoring Report, Area A Landfill, Responses to Comments
12	1038	10.05		11/30/2001	Meeting Minutes	Meeting minutes from the November 7, 2001 RAB meeting with questionnaire. Attendees from RAB, EPA, CTDEP, Navy (EFANE), NSB-NLON, FW, Conn. College, Bart Pearson (Public)	Andrew Stackpole NSB-NLON	Distribution	Minutes from the November 7, 2001 RAB Meeting	NA	6	Meeting Minutes, November 7, 2001, RAB Meeting
12	1127	06.05	816	12/1/2001	Report	Draft Round 13 Groundwater Monitoring Report for DRMO	Mark Mengel TtNUS	Kymberlee Keckler USEPA	Draft Round 13 Groundwater Monitoring Report for DRMO, (This Draft Version Acting as a Final)	Site 6	220	Draft Round 13 Groundwater Monitoring Report, DRMO, Final Report

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12	0856	05.08	816	12/3/2001	Report	Final First Five-Year Review Report for CERCLA Sites at NSB-NLON	TtNUS	US Navy	Final First Five-Year Review Report for CERCLA Sites at NSB-NLON	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	550	Five-Year Review Report , Final, NSB-NLON
12	1124	05.01	816	12/3/2001	Letter	Transmittal of Final (Revision 2) First Five-Year Review Report with Response to EPA Comments on Draft Five Year Review (attached)	Corey Rich TtNUS	Kymberlee Keckler, USEPA I	Final First Five-Year Review Report for CERCLA Sites at NSB-NLON	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	4	Five-Year Review Report , Final, NSB-NLON
12	0850	03.01	312	12/5/2001	Letter	Transmittal of the Final Basewide Groundwater Operable Unit RI	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	7	Transmittal, Basewide Groundwater Operable Unit RI
12	0930	06.01		12/5/2001	Letter	EPA comments on the Draft Year 3 Annual Groundwater Monitoring Report for the DRMO dated November 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Year 3 Annual Groundwater Monitoring Report for the DRMO	Site 6	8	EPA, Comments, Year 3 Annual Groundwater Monitoring Report, DRMO
12	0830	05.01		12/7/2001	Letter	EPA Comments on the Five-Year Review for NSB-NLON dated November 2001	Patricia Meaney USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	2	EPA Comments, First Five-Year Review
12	0931	06.01		12/17/2001	Letter	EPA comments on the Round 7 Groundwater Monitoring Report for Area A Landfill dated November 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 7 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 7, Groundwater Monitoring Report, Area A Landfill
12	0831	05.01	816	12/18/2001	Letter	Transmittal of one CD containing electronic copy of the Final Five-Year Review Report	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Transmittal of Electronic Copy of Final First Five-Year Review	Sites 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	1	Transmittal, Five-Year Review, Electronic Copy
12	1026	04.01		1/1/2002	Responses	Navy response to EPA November 5, 2001 comments on the Revised Draft Feasibility Study for Soil and Groundwater at the Lower Subase, no Transmittal Letter	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Navy Responses to EPA comments on the Revised Draft Feasibility Study for Soil and Groundwater at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 26	100	EPA, Response to Comments, Feasibility Study, Soil and Groundwater, Lower Subase
12	0851	03.01		1/3/2002	Letter	EPA's review comments on TtNUS' December 2001 revised pages of the final version of the Basewide Groundwater Operable Unit RI	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA's Review Comments on Revised Pages of the Final Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	2	EPA Review Comments, Basewide Groundwater Operable Unit RI
12	1100	06.01		1/4/2002	E-mail	Modification of monitoring well network at Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Monitoring Well Network for Goss Cove Landfill	Site 8	1	Groundwater Monitoring Plan, Phase 2, OU, RI
12	0932	06.01		1/10/2002	Letter	EPA comments on the Round 13 Groundwater Monitoring Report for the DRMO dated December 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 13 Groundwater Monitoring Report for the DRMO	Site 6	3	EPA, Comments, Round 13, Groundwater Monitoring Report, DRMO
12	0852	03.01	312	1/14/2002	Letter	Transmittal of the final version of the Basewide Groundwater Operable Unit RI	David Cercone TtNUS	Jennifer Hayes Stump GF Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Basewide Groundwater Operable Unit RI	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	Transmittal of the final version of the Basewide Groundwater Operable Unit RI
12	0933	06.01		1/14/2002	Responses	EPA response to letter dated January 4, 2002 regarding a change to the groundwater monitoring network for Goss Cove Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Response to Request to Change the Groundwater Monitoring Network for Goss Cove Landfill	Site 8	2	EPA, Groundwater Monitoring Network, Goss Cove Landfill
12	0993	01.01		1/14/2002	Letter	EPA comments on the Draft Project Closeout Report for the Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center - Site 20 dated December 14, 2001	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Project Closeout Report for the Soild and Sediment Removal at Operable Unti 7, Area A Weapons Center, Site 20	Site 20	6	EPA, Comments, Project Closeout Report, Soil and Sediment, Operable Unit 7, Area A Weapons Center, Site 20
13	1073	03.04	312	1/14/2002	Report	Final Basewide Groundwater Operable Unit Remedial Investigation Report Volume I Executive Summary through Section 4, with comments Volume II Section 5 through References Volume III Appendix A Volume IV Appendices B through F	TtNUS	US Navy	Basewide Groundwater Operable Unit Remedial Investigation Report Volumes 1 through 4	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1000	Basewide Groundwater Operable Unit Remedial Investigation Report Volumes 1 through 4
12	1039	10.01		1/16/2002	Letter	Rescheduling of February 6, 2002 RAB meeting; Change in Community Co-chair from Susan Orrill to Deborah Downie	Andrew Stackpole NSB-NLON	Distribution	Rescheduling of February 6, 2002 RAB meeting; Change in Community Co-chair from Susan Orrill to Deborah Downie	NA	2	February 6, 2002, RAB Meeting

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12	0853	03.01		1/30/2002	E-mail	E-mail acknowledgment that EPA's comments were adequately addressed in the Basewide Groundwater Operable Unit RI	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	E-mail Acknowledgment that EPA's Comments were Adequately Addressed	Sites 2, 3, 7, 8, 14, 15, 16, 18, 20, and 23	1	E-mail, EPA Comments, Basewide Groundwater Operable Unit RI
12	0934	06.01		1/30/2002	Letter	EPA review comments on Navy response to EPA December 5, 2001 comments on the Draft Year 3 Annual Groundwater Monitoring Report	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA Comments on the Draft Year 3 Annual Groundwater Monitoring Report for the DRMO	Site 6	2	EPA, Review Comments, Responses to Comments, Year 3, Annual Groundwater Monitoring Report, DRMO
12	1028	02.01		2/26/2002	Letter	EPA comments on the Final Removal Action Report for Over Bank Disposal Area Northeast Remediation dated February 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Final Removal Action Report for Over Bank Disposal Area Northeast Remediation	Site 14	2	EPA, Comments, Removal Action Report, Over Bank Disposal Area Northeast, Remediation
12	0935	06.01	816	3/8/2002	Letter	Transmittal of the Draft Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Year 2, Annual Groundwater Monitoring Report, Area A Landfill
12	1010	08.01		3/18/2002	Letter	Dioxin Assessment at the Lower Subase	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	Dioxin Assessment at the Lower Subase	Sites 10, 11, 13, 17, 19, 21, 22, 24 and 25	2	Dioxin Assessment, Lower Subase
12	1110	06.01	816	4/1/2002	Letter	Transmittal Letter for Final Year 3 Groundwater Monitoring Report for DRMO with Response to EPA comments	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Final Year 3 Groundwater Monitoring Report for DRMO with Response to EPA comments	Site 6	17	Transmittal, Final Year 3 Groundwater Monitoring Report, DRMO, EPA, Responses to Comments
12	1111	06.05	816	4/1/2002	Report	Final Year 3 Annual Groundwater Monitoring Report for DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA	Final Year 3 Annual Groundwater Monitoring Report for DRMO	Site 6	262	Final Year 3 Annual Groundwater Monitoring Report, DRMO
12	1128	06.05	816	4/1/2002	Report	Draft Round 9 Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Draft Round 9 Groundwater Monitoring Report for Area A Landfill, (This Draft Version Acting as a Final)	Site 2	258	Draft Round 9 Groundwater Monitoring Report, Area A Landfill, Final Report
12	0954	06.01		4/3/2002	Letter	EPA comments on the Draft Year 2 Annual Groundwater Monitoring Report for Area A Landfill dated March 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	7	EPA, Comments, Year 2, Annual Groundwater Monitoring Report, Area A Landfill
12	0937	06.01		4/23/2002	Letter	EPA comments on the Year 3 Annual Groundwater Monitoring Report for DRMO dated March 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Year 3 Annual Groundwater Monitoring Report for DRMO	Site 6	3	EPA, Comments, Year 3, Annual Groundwater Monitoring Report, DRMO
12	0994	01.01		4/30/2002	Responses	Navy response to EPA January 14, 2002 comments regarding the Draft Project Closeout Report for the Area A Weapons Center - Site 20	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Project Closeout Report for the Area A Weapons Center, Site 20	Site 20	7	EPA, Responses to Comments, Project Closeout Report, Area A Weapons Center, Site 20
12	0938	06.01	816	5/2/2002	Letter	Transmittal of the Draft Round 1 Groundwater Monitoring Report for Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Round 1 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	1	Transmittal, Round 1, Groundwater Monitoring Report, Goss Cove Landfill
12	0939	06.01		5/2/2002	Letter	EPA comments on the Round 9 Groundwater Monitoring Report for the Area A Landfill dated April 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 9 Groundwater Monitoring Report for the Area A Landfill	Site 2	3	EPA, Comments, Round 9, Groundwater Monitoring Report, Area A Landfill
12	1129	06.05	816	5/2/2002	Report	Draft Round 1 Groundwater Monitoring Report for Goss Cove Landfill with Transmittal Letter	Corey Rich TtNUS	Kymberlee Keckler USEPA	Draft Round 1 Groundwater Monitoring Report for Goss Cove Landfill with Transmittal Letter, Updated with Page Changes Dated June 13, 2001 (This Draft Version Acting as a Final)	Site 8	296	Draft Round 1 Groundwater Monitoring Report, Goss Cove Landfill, Transmittal Letter, Final Report
12	0995	01.01		5/22/2002	Letter	EPA review comments to the Navy's April 30, 2002 response to EPA's January 14, 2002 comments regarding the Draft Project Closeout Report for Operable Unit 7, Area A Weapons Center - Site 20	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments for the Responses to EPA Comments on the Draft Project Closeout Report for Operable Unit 7, Area A Weapons Center, Site 20	Site 20	3	EPA, Review Comments, Responses to Comments, Project Closeout Report, Operable Unit 7, Area A Weapons Center, Site 20
12	1040	10.05		5/28/2002	Meeting Minutes	Meeting minutes from May 8, 2002 RAB meeting with presentation and results of November 7, 2001 questionnaire. Attendees from RAB, EPA, CTDEP, Navy (EFANE), NSB-NLON, TtNUS, Sierra Club, EA	Richard Conant NSB-NLON	Distribution	Minutes from May 8, 2002 RAB Meeting	NA	28	Meeting Minutes, May 8, 2002, RAB Meeting

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12	0940	06.01		5/29/2002	Letter	EPA comments on the Round 1 Groundwater Monitoring Report for Goss Cove Landfill dated May 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 1 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	3	EPA, Comments, Round 1, Groundwater Monitoring Report, Goss Cove Landfill
12	1043	05.01		6/11/2002	Letter	EPA comments on the Draft Operation and Maintenance Manual, Area A Landfill (Site 2), DRMO (Site 6), and Goss Cove Landfill (Site 8) at NSB-NLON dated May 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Operation and Maintenance Manual, Area A Landfill (Site 2), DRMO (Site 6), and Goss Cove Landfill (Site 8) at NSB-NLON	Sites 2, 6, and 8	10	EPA, Comments, Operation and Maintenance Manual, Area A Landfill (Site 2), DRMO (Site 6), Goss Cove Landfill (Site 8)
12	0941	06.01	816	6/13/2002	Responses	Navy responses to EPA's May 2, 2002 comments on the Draft Round 9 Quarterly Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the Draft Round 9 Quarterly Groundwater Monitoring Report for Area A Landfill	Site 2	5	EPA, Responses to Comments, Round 9, Quarterly Groundwater Monitoring Report, Area A Landfill
12	0942	06.01	816	6/13/2002	Responses	Navy responses to EPA's May 29, 2002 comments on the Draft Round 1 Quarterly Groundwater Monitoring Report for Goss Cove Landfill, plus applicable updated report pages	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the Draft Round 1 Quarterly Groundwater Monitoring Report for Goss Cove Landfill and Applicable Updated Report Pages	Site 8	21	EPA, Responses to Comments, Round 1, Groundwater Monitoring Report, Goss Cove Landfill
12	1106	06.01	816	6/26/2002	Letter	Transmittal Letter for Draft Round 2 Groundwater Monitoring Report for Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Draft Round 2 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	1	Transmittal, Draft Round 2 Groundwater Monitoring Report, Goss Cove Landfill
12	1107	06.05	816	6/26/2002	Report	Draft Round 2 Groundwater Monitoring Report for Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Draft Round 2 Groundwater Monitoring Report for Goss Cove Landfill, (This Draft Version Acting as a Final)	Site 8	170	Draft Round 2 Groundwater Monitoring Report, Goss Cove Landfill, Final Report
12	1115	06.01	816	6/28/2002	Letter	Transmittal Letter for Draft Round 10 Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Draft Round 10 Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Draft Round 10 Groundwater Monitoring Report, Area A Landfill
12	0996	06.01		6/28/2002	Letter	Transmittal of the Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7 - Area A Weapons Center - Site 20	Thomas Kelly Foster Wheeler	Mark Evans US Navy, NorthDiv	Transmittal of the Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	1	Transmittal, Remedial Action Report, Soil and Sediment Removal, Operable Unit 7, Area A Weapons Center, Site 20
12	0997	06.03		6/28/2002	Report	Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center - Site 20	Foster Wheeler	US Navy	Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	21	Remedial Action Report, Soil and Sediment, Operable Unit 7, Area A Weapons Center, Site 20
12	1116	06.05	816	6/28/2002	Report	Draft Round 10 Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Draft Round 10 Groundwater Monitoring Report for Area A Landfill, (This Draft Version Acting as a Final)	Site 2	244	Draft Round 10 Groundwater Monitoring Report, Area A Landfill, Final Report
12	0943	06.01		7/8/2002	Letter	EPA review comments for TtNUS' response to EPA's May 29, 2002 comments on the Draft Round 1 Quarterly Groundwater Monitoring Report for the Goss Cove Landfill dated June 12, 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments for Responses to EPA's Comments on the Draft Round 1 Quarterly Groundwater Monitoring Report for the Goss Cove Landfill	Site 8	1	EPA, Review Comments, Responses to Comments, Round 1, Groundwater Monitoring Report, Goss Cove Landfill
12	0944	06.01		7/19/2002	Letter	EPA comments on Round 2 Groundwater Monitoring Report for Goss Cove Landfill dated June 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on Round 2 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	3	EPA, Comments, Round 2, Groundwater Monitoring Report, Goss Cove Landfill
12	0945	06.01		7/25/2002	Letter	EPA comments on Round 10 Groundwater Monitoring Report for Area A Landfill dated June 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on Round 10 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 10, Groundwater Monitoring Report, Area A Landfill
12	0998	06.01		8/26/2002	Letter	EPA comments on the Final Remedial Action Report for the Soil and Sediment Removal at Operable Unit 7 - Area A Weapons Center - Site 20 dated June 28, 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Final Remedial Action Report for the Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	5	EPA, Comments, Remedial Action Report, Soil and Sediment Removal, Operable Unit 7, Area A Weapons Center, Site 20

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12	0946	03.01	816	8/30/2002	Letter	Transmittal of the Draft Letter Work Plan for Geochemical Investigation at Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Letter Work Plan for Geochemical Investigation at Area A Landfill	Site 2	1	Transmittal, Letter Work Plan, Geochemical Investigation, Area A Landfill
12	0949	03.06	816	9/1/2002	Report	Letter Work Plan for Geochemical Investigation at the Area A Landfill	TtNUS	US Navy	Letter Work Plan for Geochemical Investigation at the Area A Landfill	Site 2	15	Letter Work Plan, Geochemical Investigation, Area A Landfill
12	0876	03.01		9/16/2002	Letter	EPA comments on the Work Plan for Basewide Groundwater Operable Unit Data Gap Investigation dated August 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Work Plan for Basewide Groundwater Operable Unit Data Gap Investigation	Sites 3, 7, 14, 15, and 20	5	EPA Comments on the Work Plan for Basewide Groundwater Operable Unit Data Gap Investigation
12	1044	05.01	816	9/20/2002	Letter	Transmittal of the Draft Final O&M Manual for Installation Restoration Program (IRP) Sites at NSB-NLON	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Final O&M Manual for Installation Restoration Program Sites	Sites 2, 6 and 8	2	Transmittal, O&M Manual, Installation Restoration Program Sites
12	1047	05.01		9/20/2002	Responses	Navy response to EPA's June 11, 2002 comments with revised responses per July 31, 2002 Technical Meeting and additional comments and responses per EPA's September 3, 2002 comments on the Draft Operation and Maintenance Manual for Sites 2, 6, and 8 with transmittal letter	Corey Rich TtNUS	Kymberlee Keckler USEPA, Mark Lewis, CTDEP	Responses to EPA Comments on the Draft Operation and Maintenance Manual for Sites 2, 6, and 8 with Transmittal Letter	Sites 2, 6 and 8	25	EPA, Response to Comments, Operation and Maintenance Manual for Sites 2, 6 and 8, Transmittal Letter
12	0947	03.01		9/23/2002	Letter	EPA comments on the Letter Work Plan for Geochemical Investigation at Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Letter Work Plan for Geochemical Investigation at Area A Landfill	Site 2	4	EPA, Comments, Letter Work Plan, Geochemical Investigation, Area A Landfill
12	0948	03.01	816	10/1/2002	Letter	Transmittal of the Final Letter Work Plan for Geochemical Investigation at the Area A Landfill, plus TtNUS' response to EPA's September 23, 2002 comments	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Transmittal of the Final Letter Work Plan for Geochemical Investigation at the Area A Landfill and Responses to EPA comments	Site 2	3	Transmittal, Letter Work Plan, Geochemical Investigation, Area A Landfill, Responses to Comments
12	0877	03.01		10/7/2002	Letter	EPA review comments on Navy's responses to EPA September 16, 2002 comments on the Draft Work Plan for the Basewide Groundwater Operable Unit Data Gap Investigation	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA Comments on the Draft Work Plan for the Basewide Groundwater Operable Unit Data Gap Investigation	Sites 3, 7, 14, 15, and 20	1	EPA, Review Comments, Responses to Comments, Work Plan, Basewide Groundwater Operable Unit Data Gap Investigation
12	1075	03.06	841	10/16/2002	Report	Final Work Plan for Basewide Groundwater Operable Unit Data Gap Investigation	TtNUS	US Navy	Work Plan for Basewide Groundwater Operable Unit Data Gap Investigation	Sites 3, 15, and 20	650	Work Plan, Basewide Groundwater Operable Unit Data Gap Investigation
12	1101	03.01	841	10/16/2002	Responses	Responses to EPA comments from September 16, 2002 and October 7, 2002 Draft Work Plan for Basewide Groundwater Investigation OU Data Gap Investigation with transmittal letter	Corey Rich TtNUS	Kymberlee Keckler USEPA	Response to EPA Comments on the Draft Work Plan for Basewide Groundwater OU Remedial Investigation Data Gap Investigation with Transmittal Letter	Sites 3, 15, and 20	6	EPA, Responses to Comments, Basewide Groundwater OU Remediation Investigation, Data Gap Investigation
12	1045	05.01		10/31/2002	Letter	EPA comments on the Operation and Maintenance (O&M) Manual for Installation Restoration Program Sites at NSB-NLON dated September 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Operation and Maintenance Manual for Installation Restoration Program Sites	Sites 2, 6, and 8	8	EPA, Comments, Operation and Maintenance Manual, Installation Restoration Program Sites
12	1131	05.01		11/18/2002	Responses	Navy Responses to October 31, 2002 EPA Comments on Draft Final Operation and Maintenance Manual for Sites 2, 6 and 8 with Email Transmittal	Corey Rich TtNUS	Kymberlee Keckler, USEPA I	Operation and Maintenance Manual for Sites 2, 6 and 8	Site 2, 6 and 8	12	Operation and Maintenance Manual for Sites 2, 6 and 8
12	1138	06.01	63	11/21/2002	Letter	Transmittal Final Year 1 Long Term Monitoring Report for Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Transmittal Final Year 1 Long Term Monitoring Report for Area A Downstream/OBDA	Site 3	1	Over Bank Disposal Area, SD-18
12	1139	06.01	63	11/21/2002	Responses	Response to EPA comments on Draft 1 Year Long Term Wetland Monitoring Report for the Area A Downstream/OBDA	Foster Wheeler	EPA	Response to EPA comments on Draft 1 Year Long Term Wetland Monitoring Report for the Area A Downstream/OBDA	Site 3	1	7/30/2002
12	1140	06.05	63	11/21/2002	Report	Final Year 1 Long Term Monitoring Report Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Year 1 Long Term Monitoring Report Area A Downstream/OBDA	Site 3	113	Long term performance standards, stage 1 restoration, stage 2 restoration, upper pond, lower pond, Over Bank Disposal Area

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12	1046	05.01		12/9/2002	Letter	EPA comments on the Navy's November 18, 2002 responses to EPA's comments on the Operation and Maintenance Manual for Installation Restoration Program at NSB-NLON	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on Responses to EPA Comments on the Operation and Maintenance Manual for Installation Restoration Program	Sites 2, 6, and 8	4	EPA, Comments, Responses to Comments, Operation and Maintenance Manual, Installation Restoration Program
12	1112	06.01	816	12/19/2002	Letter	Transmittal Letter for Final Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Final Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Final Year 2 Annual Groundwater Monitoring Report, Area A Landfill
12	1113	06.05	816	12/19/2002	Report	Final Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Year 2 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	500	Final Year 2 Annual Groundwater Monitoring Report, Area A Landfill
12	1048	05.01		12/30/2002	E-mail	Navy response to EPA's October 31, 2002 and December 9, 2002 comments on the Draft O&M Manual	Corey Rich TtNUS	Kymberlee Keckler USEPA I Jennifer Hayes Stump GF	Responses to EPA Comments on the Draft O&M Manual	Sites 2, 6, and 8	15	EPA, Responses to Comments, O&M Manual
13	1049	05.01		1/3/2003	Letter	EPA comments on the Navy's December 30, 2002 responses to EPA's December 9, 2002 comments on the Operation and Maintenance Manual for Installation Restoration Program Sites at NSB-NLON	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Responses to EPA Comments on the Operation and Maintenance Manual for Installation Restoration Program Sites	Site 2, Site 6, and Site 8	2	EPA, Comments, Responses to Comments, Operation and Maintenance Manual, Installation Restoration Program Sites
13	1076	06.01	816	1/3/2003	Letter	Transmittal of Draft Round 3 Groundwater Monitoring Report for Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Draft Round 3 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	1	Transmittal, Round 3, Groundwater Monitoring Report, Goss Cove Landfill
13	1078	06.05	816	1/3/2003	Report	Final Round 3 Groundwater Monitoring Report for Goss Cove Landfill	TtNUS	US Navy	Round 3 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	200	Round 3, Groundwater Monitoring Report, Goss Cove Landfill
13	0950	06.01		1/8/2003	Letter	EPA comments on the Round 3 Groundwater Monitoring Report for Goss Cove Landfill dated January 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 3 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	1	EPA, Comments, Round 3, Groundwater Monitoring Report, Goss Cove Landfill
13	0999	06.01		1/13/2003	Responses	Navy response to EPA's August 26, 2002 comments on the Final Soil and Sediment Remedial Action Report for Operable Unit 7 - Area A Weapons Center	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA's Comments on the Final Soil and Sediment Remedial Action Report for Operable Unit 7, Area A Weapons Center	Site 20	6	EPA, Responses to Comments, Soil and Sediment, Remedial Action Report, Operable Unit 7, Area A Weapons Center
13	0951	06.01		1/16/2003	Letter	EPA comments on the Final Year 2 Annual Groundwater Monitoring Report for the Area A Landfill dated December 2002	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Final Year 2 Annual Groundwater Monitoring Report for the Area A Landfill	Site 2	2	EPA, Comments, Year 2, Annual Groundwater Monitoring Report, Area A Landfill
13	1041	10.05		2/11/2003	Meeting Minutes	Meeting minutes from the July 31, 2002 RAB meeting with presentation; and agenda for February 26, 2003 meeting	Andrew Stackpole NSB-NLON	Distribution	Minutes from the July 31, 2002 RAB Meeting and Agenda for February 26, 2003 Meeting	NA	16	Meeting Minutes, July 31, 2002, RAB Meeting, Meeting Agenda, February 26, 2003
13	1000	06.01		2/12/2003	Letter	EPA review comments on Navy's January 13, 2003 response to EPA's August 26, 2002 comments regarding the Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center - Site 20	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	Review Comments on Responses to EPA's Comments on the Final Remedial Action Report for Soil and Sediment Removal at Operable Unit 7, Area A Weapons Center, Site 20	Site 20	1	EPA, Review Comments, Responses to Comments, Remedial Action Report, Soil and Sediment, Operable Unit 7, Area A Weapons Center, Site 20
13	0952	06.01	816	2/14/2003	Responses	Navy Responses to EPA January 16, 2003 Comments on the Final Year 2 Annual Groundwater Monitoring Report for Area A Landfill, plus Applicable Revised Pages	Corey Rich TtNUS	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Final Year 2 Annual Groundwater Monitoring Report for Area A Landfill and Applicable Revised Pages	Site 2	7	EPA, Responses to Comments, Year 2, Annual Groundwater Monitoring Report, Area A Landfill, Revised Pages
13	0919	06.01		2/24/2003	Letter	EPA comments on the Year 4 Annual Groundwater Monitoring Report for the DRMO dated February 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Year 4 Annual Groundwater Monitoring Report for the DRMO	Site 6	6	EPA, Comments, Year 4, Annual Groundwater Monitoring Report, DRMO
13	1050	05.01		2/28/2003	Letter	Operation and Maintenance for Superfund Sites at NSB-NLON; Properly maintaining the asphalt layer on top of the landfills to ensure an effective cap system	Dennis Gagne USEPA I	Al Haring US Navy, NorthDiv	Operation and Maintenance for Superfund Sites at NSB-NLON; Properly Maintaining the Asphalt	Sites 2, 6, and 8	2	Operation and Maintenance, Superfund Sites, Maintaining Asphalt

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13	1071	05.01	816	3/7/2003	Letter	Transmittal of the Draft Volume II Groundwater Monitoring Plan for Operations and Maintenance Manual for Installation Restoration Program Sites	Corey Rich TINUS	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Draft Volume II Groundwater Monitoring Plan for Operations and Maintenance Manual for Installation Restoration Program Sites	Sites 2, 6, and 8	1	Transmittal, Volume II, Groundwater Monitoring Plan, Operations and Maintenance Manual
13	0953	06.01		3/10/2003	Letter	EPA comments on the Year 3 Annual Groundwater Monitoring Report for Area A Landfill dated February 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Year 3 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	8	EPA, Comments, Year 3, Annual Groundwater Monitoring Report, Area A Landfill
13	1017	01.01		3/26/2003	Letter	Transmittal of the Draft Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Study (includes Pier 1 Marine Railway)	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP Kymberlee Keckler USEPA I	Transmittal of the Draft Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Study	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	1	Transmittal, Work Plan, Field Sampling Plan, Thames River Rapid Sediment Characterization Study
13	1018	09.01		4/1/2003	Letter	NOAA comments on the Draft Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Kenneth Finkelstein NOAA	Kymberlee Keckler USEPA I Mark Evans US Navy, NorthDiv	NOAA Comments on the Draft Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	2	NOAA, Comments, Work Plan, Field Sampling Plan, Thames River Rapid Sediment Characterization Pilot Study
13	1051	05.01		4/3/2003	Letter	EPA comments on the Operation and Maintenance Manual, Volume II; Groundwater Monitoring Plan dated March 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Operation and Maintenance Manual, Volume II; Groundwater Monitoring Plan	Sites 2, 6, and 8	7	EPA, Comments, Operation and Maintenance Manual, Groundwater Monitoring Plan
13	0955	06.01		4/22/2003	Letter	EPA comments on the Year 1 Groundwater Monitoring Report for Goss Cove Landfill dated March 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Year 1 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	7	EPA, Comments, Year 1, Groundwater Monitoring Report, Goss Cove Landfill
13	1052	05.01		5/12/2003	Responses	Navy responses to EPA letter dated February 28, 2003; Maintaining the asphalt layer on top of the landfills to ensure an effective cap system	A.E. Haring US Navy, NorthDiv	Dennis Gagne USEPA I	Navy Response to EPA Letter; Maintaining the Asphalt Layer, Operation and Maintenance Manual	Sites, 2, 6, and 8	1	Navy, EPA, Response Letter; Maintaining Asphalt Layer, Operations and Maintenance Manual
13	1019	01.07		5/14/2003	Letter	EPA comments on the Draft Thames River Rapid Sediment Characterization Pilot Study Work Plan/Sampling Plan dated March 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Thames River Rapid Sediment Characterization Pilot Study Work Plan/Sampling Plan	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	6	EPA, Comments, Thames River Rapid Sediment Characterization Pilot Study, Work Plan, Sampling Plan
13	1053	06.01		5/22/2003	Letter	Alternative Surface Water Protection Criteria for Groundwater Monitoring at Sites 6 and 8, NSB-NLON	Mark Evans US Navy, NorthDiv	Mark Lewis CTDEP	Alternative Surface Water Protection Criteria for Groundwater Monitoring at Sites 6 and 8	Sites 6 and 8	24	Alternative Surface Water Protection Criteria, Groundwater Monitoring, Sites 6 and 8
13	0956	06.01		6/5/2003	Letter	EPA review comments of Navy's responses to EPA's March 10, 2003 comments on the Draft Year 3 Annual Groundwater Monitoring Report for Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to Comments on the Draft Year 3 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Review Comments, Responses to Comments, Year 3, Annual Groundwater Monitoring Report, Area A Landfill
13	0920	06.01		6/6/2003	Letter	EPA review comments on Navy's response to EPA February 24, 2003 comments on the Draft Year 4 Annual Groundwater Monitoring Report for the DRMO	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Responses to EPA Comments on the Draft Year 4 Annual Groundwater Monitoring Report for the DRMO	Site 6	2	EPA, Review Comments, Responses to Comments, Year 4 Annual Groundwater Monitoring Report, DRMO
13	1020	09.01		6/10/2003	Responses	Navy response to NOAA April 1, 2003 comments for the Draft Thames River Rapid Sediment Characterization Pilot Study Work Plan/Sampling Plan	Mark Evans US Navy, NorthDiv	Kenneth Finkelstein NOAA	Responses to NOAA Comments for the Draft Thames River Rapid Sediment Characterization Pilot Study Work Plan/Sampling Plan	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	2	NOAA, Responses to Comments, Thames River Rapid Sediment Characterization Pilot Study, Work Plan, Sampling Plan
13	1021	01.01		6/10/2003	Responses	Navy response to EPA May 14, 2003 comments on the Draft Thames River Rapid Sediment Characterization Study Work Plan/Sampling Plan	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I	Responses to EPA Comments on the Draft Thames River Rapid Sediment Characterization Study Work Plan/Sampling Plan	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	18	EPA, Responses to Comments, Draft Thames River Rapid Sediment Characterization Study, Work Plan, Sampling Plan
13	1098	01.07		6/10/2003	Report	Health and Safety Plan for Thames River Rapid Sediment Characterization Pilot Study	Battelle	US Navy	Health and Safety Plan for Thames River Rapid Sediment Characterization Pilot Study	Lower Subase	35	HAZWOPER, PCB, PAH, PPE, Zone 4, Zone 7, Pier 1 Marine Railway

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13	1022	01.01		6/12/2003	Letter	Transmittal of the Final Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Final Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	3	Transmittal, Work Plan, Field Sampling Plan, Thames River Rapid Sediment Characterization Pilot Study
13	1094	01.07		6/12/2003	Report	Final Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Mark Evans US Navy, NorthDiv	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Final Work Plan/Field Sampling Plan for the Thames River Rapid Sediment Characterization Pilot Study	Sites 10, 11, 13, 17, 19, 21, 22, 24, 25	194	Work Plan, Field Sampling Plan, Thames River Rapid Sediment Characterization Pilot Study
13	1132	06.01	63	6/27/2003	Letter	Transmittal of Final Year 2 Long-Term Monitoring Report for Area A Downstream/OBDA	Tom Kelly, Foster Wheeler	Mark Evans, U.S. Navy, NorthDiv	Transmittal of Final Year 2 Long-term Monitoring Report for Area A Downstream/OBDA	Site 3	1	Operations and Maintenance
13	1133	06.01	63	6/27/2003	Responses	Response to EPA comments on Draft Year 2 Long Term Wetland Monitoring Report for the Area A Downstream/OBDA Report	Foster Wheeler	NORTHDIV	Response to EPA comments on Draft Year 2 Long Term Wetland Monitoring Report for the Area A Downstream/OBDA Report	Site 3	2	SD-18, Over Bank Disposal Area
13	1134	06.05	63	6/27/2003	Report	Final Year 2 Long Term Monitoring Report Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Year 2 Long Term Monitoring Report Area A Downstream/OBDA	Site 3	129	Long term performance standards, stage 1 restoration, stage 2 restoration, upper pond, lower pond, Over Bank Disposal Area
13	0879	03.01		7/3/2003	Letter	EPA comments on the Draft Remedial Investigation Update and Feasibility Study Basewide Groundwater Operable Unit NSB-NLON dated April 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Draft Basewide Groundwater Operable Unit RI Update/Feasibility Study	Sites 3, 7, 14, 15, and 20	17	EPA Comments, Basewide Groundwater Operable Unit RI Update/Feasibility Study
13	1054	05.01		7/3/2003	Letter	EPA comments on Navy's responses to EPA's comments on the Draft Volume II - Groundwater Monitoring Plan Operation and Maintenance Manual for Installation Restoration Sites at NSB-NLON	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Review Comments on Response to Comments on the Draft Volume II Groundwater Monitoring Plan Operation and Maintenance Manual for Installation Restoration Sites at NSB-NLON	Sites 2, 6, and 8	12	EPA, Review Comments, Response to Comments, Volume 2, Groundwater Monitoring Plan, Operation and Maintenance Manual for Installation Restoration Sites
13	1103	06.01	816	7/9/2003	Letter	Transmittal Letter for Final Year 3 Groundwater Monitoring Report for Area A Landfill with Responses to 3/10/03 EPA Comments	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Final Year 3 Groundwater Monitoring Report for Area A Landfill with Responses to 3/10/03 EPA Comments	Site 2	16	Transmittal, Final Year 3 Groundwater Monitoring Report for Area A Landfill, Responses to Comments, EPA
13	1104	06.05	816	7/9/2003	Report	Final Year 3 Annual Groundwater Monitoring Report for Area A Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Final Year 3 Annual Groundwater Monitoring Report for Area A Landfill	Site 2	652	Final Year 3 Annual Groundwater Monitoring Report, Area A Landfill
13	0957	06.01		7/30/2003	Letter	EPA comments on the Year 3 Annual Groundwater Monitoring Report of Area A Landfill	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Year 3 Annual Groundwater Monitoring Report of Area A Landfill	Site 2	2	EPA, Comments, Year 3, Annual Groundwater Monitoring Report, Area A Landfill
13	1108	06.01	816	8/11/2003	Letter	Transmittal Letter of Final Year 4 Groundwater Monitoring Report for DRMO and with Attached Final Responses to EPA comments	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter of Final Year 4 Groundwater Monitoring Report for DRMO and Attached Final Responses to EPA comments	Site 6	13	Transmittal, Final Year 4 Groundwater Monitoring Report, DRMO, Responses to Comments, EPA
13	1109	06.05	816	8/11/2003	Report	Final Year 4 Annual Groundwater Monitoring Report for DRMO	Corey Rich TtNUS	Kymberlee Keckler USEPA	Final Year 4 Annual Groundwater Monitoring Report for DRMO	Site 6	222	Final Year 4 Annual Groundwater Monitoring Report, DRMO
13	1117	06.01	816	8/11/2003	Letter	Transmittal Letter for Final Year 1 Annual Groundwater Monitoring Report for Goss Cove Landfill with Attached Response to EPA Comments received on 4/22/03.	Corey Rich TtNUS	Kymberlee Keckler USEPA	Transmittal Letter for Final Year 1 Annual Groundwater Monitoring Report for Goss Cove Landfill and Attached Response to EPA Comments received on 4/22/03.	Site 8	7	Transmittal, Final Year 1 Annual Groundwater Monitoring Report, Goss Cove Landfill, Responses to Comments, EPA
13	1118	06.05	816	8/11/2003	Report	Final Year 1 Annual Groundwater Monitoring Report for Goss Cove Landfill	Corey Rich TtNUS	Kymberlee Keckler USEPA	Final Year 1 Annual Groundwater Monitoring Report for Goss Cove Landfill	Site 8	336	Final Year 1 Annual Groundwater Monitoring Report, Goss Cove Landfill

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13	1042	10.05		8/25/2003	Meeting Minutes	Meeting minutes from the February 26, 2003 RAB meeting with presentation; and agenda for September 9, 2003 meeting	Richard Conant NSB-NLON	Distribution	Minutes from the February 26, 2003 RAB meeting and Agenda for September 9, 2003 Meeting	NA	31	Meeting Minutes, February 26, 2003, RAB Meeting, Meeting Agenda, September 9, 2003
13	0958	06.01	2	9/26/2003	Letter	Transmittal of Round 12 Groundwater Monitoring Report for Area A Landfill, TO 0002	Darren Gainer ECC	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of Round 12 Groundwater Monitoring Report for Area A Landfill	Site 2	1	Transmittal, Round 12, Groundwater Monitoring Report, Area A Landfill
13	1077	06.05	2	9/26/2003	Report	Final Round 12 Groundwater Monitoring Report for Area A Landfill	ECC	US Navy	Round 12 Groundwater Monitoring Report for Area A Landfill	Site 2	250	Round 12, Groundwater Monitoring Report, Area A Landfill
13	0959	06.01	2	9/30/2003	Letter	Transmittal of the Round 5 Groundwater Monitoring Report for Goss Cove Landfill	Darren Gainer ECC	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Round 5 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	1	Transmittal, Round 5, Groundwater Monitoring Report, Goss Cove Landfill
13	1079	06.05	2	9/30/2003	Report	Final Round 5 Groundwater Monitoring Report for Goss Cove Landfill	ECC	US Navy	Round 5 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	250	Round 5, Groundwater Monitoring Report, Goss Cove Landfill
13	0960	01.01	2	10/2/2003	Letter	Transmittal of the Annual Landfill Inspection Reports for Goss Cove Landfill, Area A Landfill, and DRMO Landfill	Darren Gainer ECC	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Transmittal of the Annual Landfill Inspection Reports for Goss Cove Landfill, Area A Landfill, and DRMO Landfill	Sites 2, 6, and 8	1	Transmittal, Annual Landfill Inspection Reports, Goss Cove Landfill, Area A Landfill, DRMO
13	0961	06.01		10/21/2003	Letter	EPA comments on the Round 5 Groundwater Monitoring Report for Goss Cove Landfill dated September 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 5 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	4	EPA, Comments, Round 5, Groundwater Monitoring Report, Goss Cove Landfill
13	0962	06.01		10/21/2003	Letter	EPA comments on the Round 12 Groundwater Monitoring Report for Area A Landfill dated September 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 12 Groundwater Monitoring Report for Area A Landfill	Site 2	3	EPA, Comments, Round 12, Groundwater Monitoring Report, Area A Landfill
13	0963	01.01		10/22/2003	Letter	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 8, Goss Cove Landfill dated October 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 8, Goss Cove Landfill	Site 8	3	EPA, Comments, Annual Landfill Inspection Report, 2003, Goss Cove Landfill
13	0964	01.01		10/22/2003	Letter	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 6, DRMO Landfill dated October 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 6, DRMO Landfill	Site 6	5	EPA, Comments, Annual Landfill Inspection Report, 2003, DRMO
13	0965	01.01		10/22/2003	Letter	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 2, Area A Landfill dated October 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA comments on the Annual Landfill Inspection Report 2003 for Site No. 2, Area A Landfill	Site 2	5	EPA, Comments, Annual Landfill Inspection Report, 2003, Area A Landfill
13	1080	06.05	2	11/1/2003	Report	Final Round 6 Groundwater Monitoring Report for Goss Cove Landfill	ECC	US Navy	Round 6 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	150	Round 6, Groundwater Monitoring Report, Goss Cove Landfill
13	0966	06.01	2	11/19/2003	Responses	Navy responses to EPA's October 21, 2003 comments on the Round 5 Groundwater Monitoring Report for Goss Cove and the Round 12 Monitoring Report for Area A Landfill, TO 0002	Darren Gainer ECC	Kymberlee Keckler USEPA I Mark Lewis CTDEP	Responses to Comments on the Round 5 Groundwater Monitoring Report for Goss Cove and the Round 12 Monitoring Report for Area A Landfill	Sites 2 and 8	11	Responses to Comments, Round 5, Groundwater Monitoring Report, Goss Cove Landfill, Round 12, Area A Landfill
13	0967	06.01		12/8/2003	Letter	EPA comments on the Round 6 Groundwater Monitoring Report for Goss Cove Landfill dated November 2003	Kymberlee Keckler USEPA I	Mark Evans US Navy, NorthDiv	EPA Comments on the Round 6 Groundwater Monitoring Report for Goss Cove Landfill	Site 8	2	EPA, Comments, Round 6, Groundwater Monitoring Report, Goss Cove Landfill
13	1099	06.05	2	1/1/2004	Report	Final Round 7 Groundwater Monitoring Report for Goss Cove	ECC	US Navy	Round 7 Groundwater Monitoring Report for Goss Cove	Site 8	220	Site 8, Thames River, potenliometric
13	1141	06.01	63	10/20/2004	Letter	Transmittal Final Year 3 Long Term Monitoring Report for Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Year 3 Long Term Monitoring Report Area A Downstream/OBDA	Site 3	1	Over Bank Disposal Area, SD-18
13	1142	06.01	63	10/20/2004	Responses	Response to EPA comments on Draft 3 Year Long Term Wetland Monitoring Report for the Area A Downstream/OBDA	Foster Wheeler	EPA	Response to EPA comments on Draft 3 Year Long Term Wetland Monitoring Report for the Area A Downstream/OBDA	Site 3	10	Over Bank Disposal Area, SD-18
13	1143	06.05	63	10/20/2004	Report	Final Year 3 Long Term Monitoring Report Area A Downstream/OBDA	Foster Wheeler	NORTHDIV	Year 3 Long Term Monitoring Report Area A Downstream/OBDA	Site 3	261	Over Bank Disposal Area, SD-18

APPENDIX C

RESPONSES TO EPA's COMMENTS

RESPONSES TO EPA's JUNE 28, 2004 COMMENTS ON THE DRAFT (JUNE 4, 2004) SITE MANAGEMENT PLAN FOR 2004 NSB-NLON, GROTON, CONNECTICUT

Comment 1:

The Relative Risk Evaluation Worksheets were not included in the Site Management Plan, but included via reference to the 1999 Site Management Plan. EPA recommends that the worksheets be included in this document.

Response:

Disagree. Because of the maturity of the Installation Restoration Program at NSB-NLON, Groton, Connecticut, the Relative Risk Evaluation Worksheets are not routinely updated. The Navy does not believe the effort required to update and include the worksheets is warranted at this time.

Comment 2:

The Relative Risk Evaluation Worksheet for Site 16 Hospital Incinerator is outdated (completed in 1997) and no longer represents current knowledge. If current information were used to revise the worksheet, the migration pathway factor would change from potential to confined. Also, the contaminant hazard factor may change if the most recent contaminant concentrations and standards were used. The rank is low for Site 16; therefore, these changes would not change the overall rank.

Response:

Comment noted.

Comment 3:

The rank did not change for the majority of the sites. The rank changed for Area A Downstream, Goss Cove Landfill, OBDANE, and Area A Weapons Center. These sites now have the rank of "NA" meaning response complete or remedy in place. Therefore, the Relative Risk Evaluation Worksheets are no longer applicable for these "NA" sites.

Response:

Comment noted.

Comment 4:

Appendix A of the Site Management Plan presents schedules. March 2006 is identified as the combined Lower Subase Zones and Thames River Rough Draft Proposed Plan milestone date. It appears from the Zone 7 discussion in section 2 that the soil and groundwater FS will be finalized and Thames River sediment will be added to the FS if warranted based on the results of the sediment investigation. There is only one Lower Subase FS schedule presented in the SMP schedule. Please confirm that this is for a combined sediment, soil and groundwater FS.

Response:

Agree. The Navy will update the existing soil and groundwater FS after additional investigation of the Thames River sediment is completed. The FS will include zone-specific soil and groundwater and the Thames River sediment, as appropriate. The title of Line 523 of the draft SMP schedule (currently line 531 of the draft final SMP schedule) was changed to the following: "**Feasibility Study (SO, GW, and Thames River SD).**" It should also be noted that the schedule included in the draft SMP was updated to address schedule changes related to the Thames River ecological sampling program and the milestone date for the rough draft Proposed Plan is now April 2006.

Comment 5:

The Site 3 Area A Downstream and OBDA schedule indicates 0% completion of Year 3 Site Restoration Monitoring. This is not consistent with the Draft Year 3 Long term Monitoring Report for Area A Downstream Wetland that was submitted to EPA in February 2004. The completion percent should be revised. Also, the dates for the year 2 and year 3 monitoring should be checked and revised as necessary.

Response:

Agree. The percent completion of the Year 3 Site Restoration Monitoring Report was changed to 100 percent. Based on Navy records, the draft Year 3 Monitoring Report was issued on December 17, 2003 and the final version of the report was issued on October 20, 2004. The dates for the Year 1 and 2 Monitoring Reports were changed to November 21, 2002 and June 27, 2003, respectively.

Comment 6:

The administrative record index is missing several documents related to wetland monitoring at Site 3 Area A Downstream. The following documents are not within the index: Long-term Wetland Monitoring Plan dated 2001; Year 1 Long Term Monitoring Report for Area A Downstream/OBDA dated 2002; Year 2 Long Term Monitoring Report, Area A Downstream/OBDA dated 2002; and Year 3 Long Term Monitoring Report, Area A Downstream/OBDA dated February 2004. The index should be revised to include these documents in the administrative record.

Response:

Agree. These documents were incorporated into the Administrative Record index and the updated index is provided in Appendix B. The updated Administrative Record will be submitted at a later date.