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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 480 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
1/6/2011
NAS BRUNSWICK

**ENVIRONMENTAL DEPARTMENT
NAVAL AIR STATION
437 HUEY DRIVE
BRUNSWICK, ME 04011**

January 6, 2011

Mr. Edward Vigneault
Maine Department of Environmental Protection
Division of Oil and Hazardous Waste Facilities Registration
17 State House Station
Augusta, ME 04333-0017

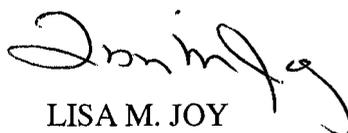
Subj: Final RCRA Partial Closure Report for Building 480

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 480 at Naval Air Station Brunswick is provided as Enclosure (1).

If you have any questions, please contact Mr. Mike Fagan at 921-1717 or via e-mail at michael.fagan1@navy.mil.

Sincerely,



LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 480

Copy to:
NAVFAC Mid-Atlantic (B. Abraham)
NAS Brunswick (M. Fagan/D. Smith)
EPA Region I (M. Daly)
MRRRA (V. Boundy)
Curtis Memorial Library (L. Oliver)
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BRAC PMO NE (P. Burgio)

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 480 – WEAPONS AREA SENTRY HOUSE
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
DECEMBER 2010

1. INTRODUCTION

The purpose of this report is to present the findings and conclusions of the investigation conducted to determine if the Maine Department of Environmental Protection (MEDEP) RCRA or hazardous waste closure requirements have been completed for Building 480 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 480, Weapons Area Sentry House, is located on Merriconeag Road at NAS Brunswick's Weapons Area, in the southeastern portion of the base near the eastern boundary (Figure 1). It is located within the Picnic Pond Area RCRA Closure Area, and is southwest of the intersection of Old Gurnet Road and Merriconeag Road, north of the Weapons Area perimeter security fence (Figure 2). Building 480 is bordered to the north by Old Gurnet Road; to the east, by Merriconeag Road; to the southwest, by Building 60 (Small Arms Magazine) and the Weapons Area perimeter security fence and gate, and to the west, by a wooded area. The area where Building 480 is located overlies the northern portion of the Eastern Plume, a dissolved-phase groundwater contamination plume comprised predominantly of chlorinated volatile organic compounds (VOCs) originating from multiple sites and under investigation by the installation Restoration Program (IRP).

Building 480 was constructed in 1980 and measures 96 square feet in area. It is a single-story, wood-framed structure with no foundation. This small, single-room building was manned by security personnel controlling access to the fenced Weapons Area through the nearby security gate across Merriconeag Road. Building 480 has an electric heating system.

Photographs of the Building 480 exterior and interior are provided in an attachment.

The investigation conducted under this report applies only to the building footprint of Building 480 (as shown on Figure 2). The Picnic Pond Area RCRA Partial Closure Report addresses the land surrounding and the groundwater underlying Building 480.

3. PROPERTY HISTORY AND RECORDS RESEARCH

The Tetra Tech NUS, Inc. (Tetra Tech) project team interviewed NAS Brunswick Environmental Department personnel and performed records research at both NAS Brunswick and the MEDEP office in Augusta, Maine to collect available information concerning Building 480, including past use and operations at this location.

Records reviewed include historical aerial photographs, the NAS Brunswick Other Environmental Liabilities (OEL) Database, area-specific reports, facility plans and drawings, and hazardous waste records. Aerial photographs dated 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997 (Sewall, 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997) were reviewed. Additional aerial photographs for the parcel, dated 1940, 1959, 1965, 1966, 1972, 1978, and 1980, were also reviewed (U.S. EPA, 1987). Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006) and site building lists for 1950, 1965, 1976, 2003, and 2008 (PWD, 1950, 1965, 1976, 2003, and 2008) were also reviewed.

The 1946 historical plan is the earliest to show the Building 480 area. This plan shows Gurnet Road with a gate and gatehouse for NAS Brunswick to the west of the current Building 480; no other area features are present. Beginning with the 1956 historical plan, Gurnet Road is present to the north of the current Building 480 and Merriconeag Road is present to the east. New Meadows Cemetery is shown northeast of the intersection of Gurnet Road and Merriconeag Road. The 1957 historical plan shows a railroad running east of Merriconeag Road. In the 1958 aerial photograph, the Building 480 area is shown as cleared land with no buildings present. No further changes are noted until the 1972 aerial photograph, which shows the previously cleared area as wooded. In the 1978 aerial photograph, Building 60 (Small Arms Magazine) is shown to the southwest of the current location of Building 480. In addition, Gurnet Road is renamed Old Gurnet Road in the 1978 historical map. The 1997 aerial photograph is the earliest to show Building 480. No further changes are noted in site maps dated after 1997.

Based on a review of the historical building lists and on discussions with NAS Brunswick Public Works Department (PWD) personnel, since its construction in 1980, Building 480 was used only as a security checkpoint building for the Weapons Area. There is no record of hazardous waste generation at Building 480 (Environmental Department, 2010).

No sanitary facilities are present at Building 480. The area where the building is located is not served by the base-wide sanitary sewer system and no septic systems were identified as associated with Building 480 (Navy, 2006).

No oil/water separator (OWS) has been associated with Building 480 (PWD, 2008b).

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 480 (Environmental Department, 1999; Environmental Department 2005; and MEDEP, 2010).

The NAS Brunswick Removed Transformer Database lists no electrical transformers associated with the current Building 480 (PWD, 2009).

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 480 indicate that no ASTs or USTs have been associated with Building 480 (Environmental Department, 2009).

4. SITE VISIT AND INVESTIGATION

A site visit was conducted for Building 480 on August 12, 2010 by Mr. James Forrelli, P.E., and Mr. Brian Geringer, of Tetra Tech. The purpose of the visit was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The building was visually inspected for signs of hazardous waste generation or storage. Site visit observations, recorded on the attached Building Inspection Form ⁽¹⁾, are summarized below:

- At the time of inspection, Building 480 was unoccupied and in fair condition.
- No evidence of current or past hazardous waste generation was observed.
- No signs of a past release (staining, unusual odors, stressed vegetation, etc.) were observed.
- No floor drains were observed.
- No modifications to the structure, which may conceal signs of a past release, were observed.
- No peeling or flaking paint was observed on the exterior or interior of the building.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 480 is required to complete the MEDEP hazardous waste closure requirements.

5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, and NAS Brunswick Environmental Department personnel interviews, no hazardous waste generation, hazardous waste accumulation, or hazardous waste storage was conducted at Building 480.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No tanks or transformers were historically associated with Building 480, none were observed in the immediate vicinity of Building 480, and none are known to exist in this area.

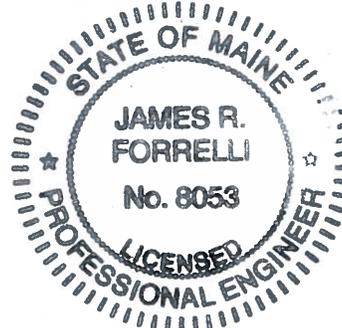
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the footprint of Building 480 (as shown on Figure 2), only. It does not apply to the land surrounding or the groundwater underlying Building 480.

8. CERTIFICATION

Based on the findings of this investigation, there have been no activities resulting in the generation, accumulation, or storage of hazardous waste at Building 480, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 480 was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.


James Forreli, P.E.
Senior Project Engineer
Tetra Tech NUS, Inc.



⁽¹⁾ The Building Inspection Form provides preliminary information collected during the building inspection, including information from visual observations, Navy personnel interviews, and from documents reviewed during file reviews. It does not reflect any additional information provided at a later date that further clarifies or corrects preliminary information collected during the building inspection and file reviews.

REFERENCES

Environmental Department, 1999. Environmental Incident Log - Book No. 1, July 1988- November 1999, Environmental Department, NAS Brunswick, Maine.

Environmental Department, 2005. Environmental Incident Log - Book No. 2, December 1999- July 2005, Environmental Department, NAS Brunswick, Maine.

Environmental Department, 2009. Master/Historical Aboveground and Underground Storage Tank Inventory. NAS Brunswick, Maine. February.

Environmental Department, 2010. Hazardous Waste Database, Naval Air Station Brunswick
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MEDEP, 2010. MEDEP Spills Database. Maine Department of Environmental Protection,
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Navy (Department of the Navy, Base Realignment and Closure Program Management Office),
2006. "Final (Revision 2) Environmental Condition of Property Report for the Naval Air Station,
Brunswick, Maine," NAS Brunswick, Maine. May 30.

PWD (Public Works Department), 1943. "US Naval Air Station, Brunswick, Maine, Building Site
Plan Showing Locations of Underground Water Distribution Lines and Hydrants," NAS Brunswick,
Maine. September 4. (Revised 8-20-45)

PWD, 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30,
1946," NAS Brunswick, Maine. June 30.

PWD, 1950. "Available for Lease U.S. Naval Air Station, Brunswick, Maine," First Naval District
acting for the Bureau of Yards & Docks Department, US Naval Air Station Brunswick, Maine.
May 24.

PWD, 1952. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30,
1952," NAS Brunswick, Maine. June 30.

PWD, 1956. General Station Map, Enclosure 2. , NAS Brunswick, Maine.

PWD, 1965. "Index of Structures, Department of the Navy Bureau of Yards & Docks
Department" US Naval Air Station Brunswick, Maine. Updated May 13.

PWD, 1966. "Building & Structure List, Department of the Navy Bureau of Yards & Docks
Department" US Naval Air Station Brunswick, Maine. Updated January 1.

PWD, 1975. "General Development, Existing and Planned, Operations Area," US Naval Air
Station, Brunswick, Maine, NAS Brunswick, Maine. Updated December 2.

PWD, 1976. "Index of Structures, Naval Facilities Engineering Command, Northeast Division
Drawing No. 747 256" Naval Air Station Brunswick, Maine. Updated September 21.

PWD, 1979. "Existing Conditions Map Operations Area," Department of the Navy Bureau of
Yards & Docks Drawing No. 925130" US Naval Air Station Brunswick, Maine. Updated June 12.

PWD, 1983. "Existing Conditions Map Operations Area," Naval Facilities Engineering Command,
Northeast Division Drawing No. 2068165" Naval Air Station Brunswick, Maine. Updated May 5.

PWD, 1989. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS
Brunswick, Maine. Revised April 2.

PWD, 2006a. Brunswick Naval Air Station, NAS Brunswick, Maine.

PWD, 2006b. "NASB Facilities List," US Naval Air Station, Brunswick, Maine, NAS Brunswick,
Maine. September 29.

PWD, 2006c. "NASB Facilities Disposal," US Naval Air Station, Brunswick, Maine, NAS
Brunswick, Maine. October 03.

PWD, 2008b. Revised Oil/Water Separator List, Table J-C4(a). NAS Brunswick, Maine. January 1.

PWD, 2009. Master Transformer Database. NAS Brunswick, Maine. June 24.

Sewall (James W. Sewall Company), 1953. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. June 29.

Sewall, 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. October 9.

Sewall, 1978. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 22.

Sewall, 1981. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. October 17.

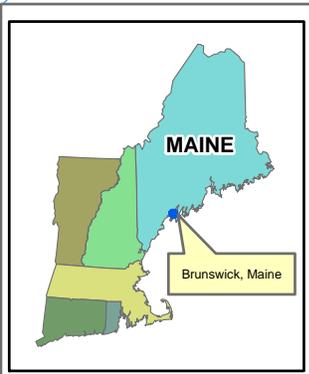
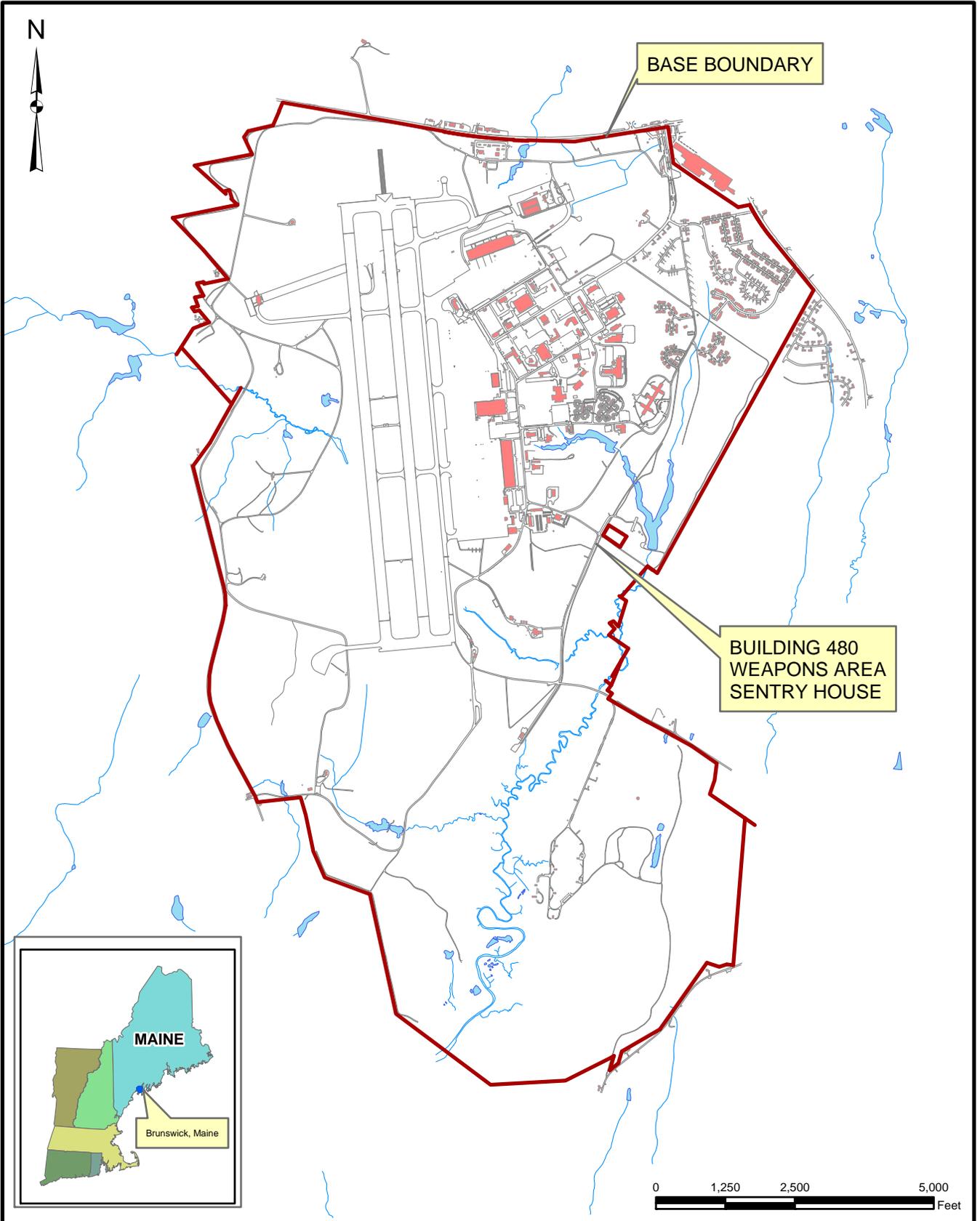
Sewall, 1984. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 23.

Sewall, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 2.

Sewall, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 8.

Sewall, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. May 27.

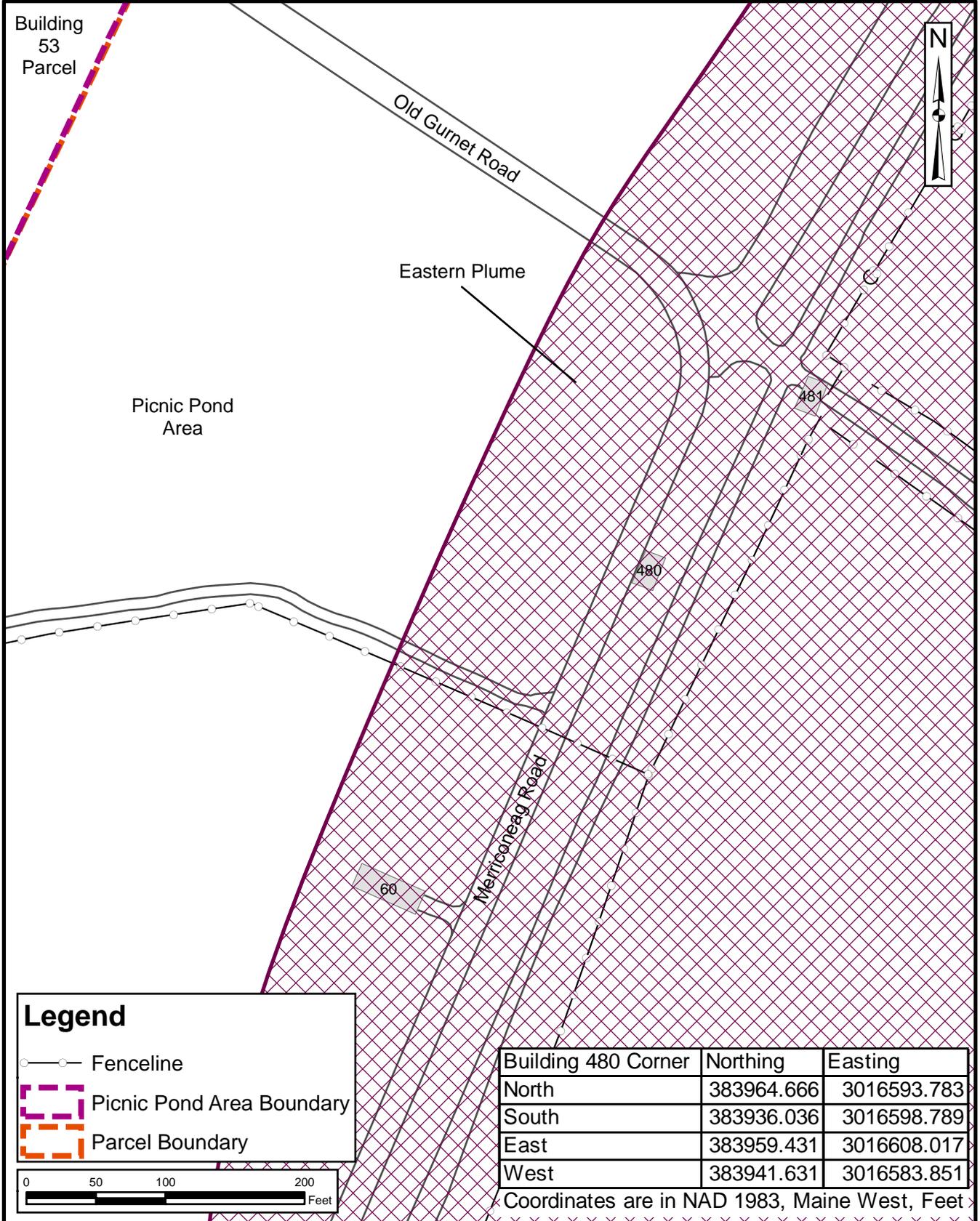
U.S. EPA (Environmental Protection Agency), 1987. Volume 1 and 2, Site Analysis Brunswick Naval Air Station, Brunswick, Maine. April.



Tetra Tech NUS, Inc.

SITE LOCATION MAP
BUILDINGS 480 - WEAPONS AREA SENTRY HOUSE
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
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REV 0	DATE 12/30/10
FIGURE NUMBER 1	



Coordinates are in NAD 1983, Maine West, Feet



Tetra Tech NUS, Inc.

SITE LOCATION MAP
BUILDING 480 - WEAPONS AREA SENTRY HOUSE
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE L:\NASB_BLDG_480_SITE_MAP.MXD	
REV 0	DATE 12/30/10
FIGURE NUMBER FIGURE NO. 2	

**HWSA INSPECTION FORM
HAZARDOUS WASTE STORAGE AREAS CLOSURE
NAS BRUNSWICK
BRUNSWICK, MAINE
CTO WE22**

Inspection Date: 08/12/10
Personnel: James Forreli, P.E. / Brian Geringer
Weather: Partly Cloudy, 70s

GENERAL BUILDING INFORMATION / USES

Building Name: Weapons Area Sentry House
Function: Sentry house
Size: 96 SF
Year of Construction: 1980

Building 480 is located in the southeastern portion of NAS Brunswick at the entrance to the Weapons Area within the Eastern Plume and Picnic Pond Area; south of Old Gurnet Road, west Merriconeag Road, north of the Weapons Area perimeter fence and Building 60 (Small Arms Magazine), and east of a wooded area. It was constructed in 1980 and served a Weapons Area sentry house for its entire history. Building 480 consists of a 96-square-foot, single story, wooden structure with no foundation. The building interior consists of a single room electrical and telephone service.

Building 480 was heated via electric heat.

HWSA INSPECTION / CONDITION

No record of hazardous waste stored at Building 480.
At the time of inspection, Building 480 was in fair condition.
No evidence of current or past hazardous waste generation activities was observed.
No evidence of hazardous waste residues was observed.
No signs of a past release (staining, unusual odors, stressed vegetation, etc.) were observed. No modifications to the structure, which may conceal signs of a past release, were observed.
No hazardous waste storage areas or hazardous waste accumulation areas were observed.

POTENTIAL PCB-CONTAINING TRANSFORMERS

No transformers are listed in the NASB transformer database for the Building 480.

APPLICABLE REPORTS / DOCUMENTS

Available historical aerial photos and base maps were reviewed for past uses:

1943 map – Area not shown.

1946 map – No buildings present; Gurnet Road present with NASB gate and gatehouse to the west of B480 area.

1952 map – Same as 1946 map.

1956 map – No buildings present; Gurnet Road runs to the north of B480 area and Merriconeag Road to the east. New Meadows Cemetery is shown northeast of B480 area.

1957 map – Same as 1956 map. Railroad shown running east of Merriconeag Road.

1958 aerial – Cleared area with no buildings present; Gurnet Road runs to the north of B480 area and Merriconeag Road to the east. New Meadows Cemetery is shown northeast of B480 area.

1959, 1965, 1966 aerials – Same as 1958 aerial.

1972 aerial – Cleared area west of B480 area is now wooded.

1975 map – Area not shown.

1978 aerial – Same as 1972 aerial. B60 (Small Arms Magazine) now shown to the south of B480 area. Gurnet Road renamed Old Gurnet Road.

1978 map – Same as 1957 map with B60 now shown to the south of B480 area.

1979 map – Area not shown.

1980 aerial – Same as 1978 aerial.

1981 aerial – Same as 1980 aerial; B480 may be present, but due to its size it is difficult to verify.

1983 map – Area not shown.

1984 aerial – Same as 1981 aerial.

1989 map – Same as 1978 map; Building 480 not shown.

1989 aerial – Same as 1984 aerial.

1993 aerial – Same as 1989 aerial.

1997 aerial – Building 480 is visible in its current location.

2006 map – Same as 1989 map, Building 480 not shown.

No OWS were present at Building 480 according to NASB records.

No ASTs or USTs were present at Building 480 according to NASB records.

No records of spills at Building 480.

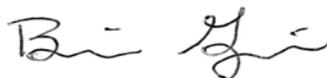
HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 480 according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

MISCELLANEOUS NOTES

The Tetra Tech personnel were accompanied on the inspection by D. Bruce Smith Hazardous Waste Manager.

(SEE ATTACHED PHOTOGRAPHS)



INSPECTOR SIGNATURE: _____

PHOTOGRAPHS



No. 1 Building 480 – Weapons Area Sentry House, NAS Brunswick August 12, 2010
Weapons Area Sentry House eastern elevation



No. 2 Building 480 – Weapons Area Sentry House, NAS Brunswick August 12, 2010
Weapons Area Sentry House interior with electrical panel at left of frame