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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR MERRICONEAG STREAM AREA LAND AREA 11A WITH TRANSMITTAL LETTER NAS
BRUNSWICK ME
2/11/2011
NAS BRUNSWICK

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

February 11, 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 Merriconeag Stream Area (Land Area 11A)

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Merriconeag Stream Area (Land Area 11A) 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,



Fal LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Merriconeag Stream Area (Land Area 11A)

Copy to:
NAVFAC Mid-Atlantic (B. Abraham)
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RCRA PARTIAL CLOSURE REPORT
for
MERRICONEAG STREAM AREA
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
JANUARY 2011

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 the Merriconeag Stream Area at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

The Merriconeag Stream Area, measuring approximately 68.3 acres in area, is located in the east-central portion of NAS Brunswick, and borders the eastern boundary of the base (Figure 1). The area is bordered to the north and northwest by the Navy Land/Private Housing Area, consisting of base housing areas. The eastern and southeastern boundaries of the Merriconeag Stream Area coincide with the fenced, eastern boundary of the NAS Brunswick base, as noted above, with Town of Brunswick land beyond. To the southwest, the area is bordered by the Picnic Pond RCRA Partial Closure Area, which includes the Installation Restoration Program (IRP) Eastern Plume site. Neptune Drive, oriented approximately north-south, forms the western boundary of the Merriconeag Stream Area, with the Building 516 (Niteflite) and Building 750 (Transient Visitor Quarters) parcels beyond (Figure 2).

The Merriconeag Stream Area consists of mostly tree-covered, undeveloped land. Three unpaved, unnamed access roads, oriented approximately north-south, are located within the Merriconeag Stream Area (Figure 2). Two of the roads are in the western portion of the area and originate in the Navy Land/Private Housing Area, located to the north. The third road is the eastern extension of First Street and is located along the eastern base boundary. This road provides access to the eastern side of Picnic Pond, a man-made pond located in the Eastern Plume Area, southwest of the Merriconeag Stream Area.

Merriconeag Stream is located in the western portion of the area, between the two westernmost access roads noted above. This eastern tributary of Picnic Pond originates in the NAS Brunswick northeastern housing area and flows naturally north to south through the entire Merriconeag Stream Area until discharging into Picnic Pond (Navy 2010). A segment of the abandoned-in-place aviation fuel pipeline, Casco Bay Pipeline, (described below in Section 3) is located in the southwestern portion of the Merriconeag Stream Area (Figure 2). There are no other structures or improvements present within the area.

The topography of the central portion of the Merriconeag Stream Area is relatively flat, with elevations near 50 feet above mean sea level (msl). In the western portion of the area, the land surface on the east and west sides of Merriconeag Stream slopes toward the stream, down to approximately 30 feet msl. The topographic high point of the Merriconeag Stream Area, approximately 70 feet msl, is at the easternmost boundary and toward the north (Figure 2).

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 the Merriconeag Stream Area, including past use and operations at that 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.

Observations based upon the historical records review are summarized below.

- In the historical aerial photograph dated 1940, the Merriconeag Stream Area is undeveloped and wooded. Merriconeag Stream (labeled Little Mere Brook on 1975 historical site plan) is visible in its approximate current course.
- On the historical site plans dated 1952 and earlier, the NAS Brunswick boundary coincided with Merriconeag Stream. Between 1952 and 1956, the eastern boundary of NAS Brunswick was relocated approximately 800 to 1200 feet to the east to its approximate current location, which coincides approximately with the topographic high at the northernmost flank of the north-south oriented Buttermilk Mountain.
- In historical aerial photographs dated 1953, access roads and structures are visible along and perpendicular to the unnamed, unpaved access road originating from the approximate current housing areas to the north. Cleared areas appear to be located at the terminus of the unpaved, unnamed access roads. The perpendicular roadways and structures are not identified in later aerial photographs. This area may not have been located within NAS Brunswick in 1953, as discussed above.
- Beginning in historical aerial photographs dated 1953 and in the 1957 historical plan, a ponded water feature is visible in the approximate current location of Picnic Pond. In historical site plans and aerial photos dated prior to 1953, ponded water is not visible, and Merriconeag Stream continues to the south through what is identified now as the Picnic Pond parcel, to the southwest. According to historical information, Picnic Pond was dammed sometime prior to 1957.
- On the historical site plan dated 1956, a roadway labeled "Air Force Road" is shown in the approximate location of Neptune Drive. On available historical site plans dated prior to 1956, an access road to the Air Force Receiver Building (later labeled Building 35) is shown in the approximate location of Neptune Drive, which terminates at former Building 35, which was located within the Building 750 parcel.
- The now-abandoned-in-place Casco Bay Pipeline is first shown on the 1957 historical site plan.
- Also beginning with the 1957 site plan and the historical aerial photograph dated 1978, Neptune Drive is shown in its approximate location (although the alignment was later slightly modified), along with a railroad track in the approximate location of the unnamed, unpaved access road now located directly to the east of Neptune Drive. This access road, originating southeast of the current First Street and continuing along the eastern NAS Brunswick boundary, is shown on historical site plans dated as early as 1957.
- No significant changes to the Merriconeag Stream Area were observed on historical site plans or aerial photographs dated after 1978.
- The housing areas located on the Navy Land/Private Housing Area, directly to the north, are not shown on historical aerial photographs or site maps until 2006. According to the CERFA report, these housing units were constructed in 2005 (Tetra Tech, 2006).

An approximately 600-foot segment of abandoned-in-place aviation fuel pipeline (Casco Bay Pipeline) is located in the southwestern portion of the land area (Figure 2). This pipeline system consists of two separate pipes that were used to transfer jet propulsion fuel (primarily JP-5) from the Defense Fuel Support Point (DFSP)-Casco Bay facility to the Old Navy Fuel Farm during the

period from about 1952 until 1991. The pipelines are constructed of two separate carbon-steel pipes with welded joints, and are set approximately 3 feet apart. The pipes are covered in an exterior tar coating impregnated with asbestos. In 1991, the pipeline was taken out of service, drained, cleaned, and pressurized with nitrogen, until 1995, when the NASB Old Navy Fuel Farm was dismantled (GZA, 1997).

Under the Community Environmental Response Facilitation Act (CERFA) process, the northern portion of the Merriconeag Stream Area, identified in the report as Area A-1, was determined to be an area with the potential for classification as “CERFA uncontaminated property”. The CERFA Identification of Uncontaminated Property report stated that hazardous substances and petroleum products have never been used or stored in Area A-1.

The remaining portion of the Merriconeag Stream Area is designated as Area B-5 (Administrative, Commercial and Residential Area) and is classified as a Category 2 or 3 CERFA property, due to its proximity to Installation Restoration Program (IRP) Sites and the potential for undocumented releases from historical operations. No commercial or industrial activities or releases were identified for the Merriconeag Stream Area in the CERFA report (Tetra Tech, 2006).

No oil/water separators (OWS), aboveground storage tanks (ASTs), or underground storage tanks (USTs) are associated with the Merriconeag Stream Area, according to NAS Brunswick records (PWD, 2008b; Environmental Department, 2009).

There are no buildings within the Merriconeag Stream Area, therefore, the area is not served by the base-wide sanitary sewer system and there are no individual septic systems located in the area (Navy, 2006).

A review of the MEDEP spill database and the NAS Brunswick spill logbook identified no reported spills within the Merriconeag Stream Area (MEDEP, 2010; Environmental Department, 2005).

According to NAS Brunswick drainage maps, the segment of Merriconeag Stream running through the Merriconeag Stream Area receives stormwater drainage from the Lupine Circle housing area and a portion of the Building 750 parcel. North of the Merriconeag Stream Area, in the Navy Land/Private Housing Area, the stream receives drainage from the northeastern base housing area, the western Old Navy Fuel Farm (ONFF) area, the Fitch Avenue and First Street intersection area, and the Woodland Village housing areas. The 1996 NAS Brunswick OWS cleaning specification indicates that runoff from the ONFF flowed through two OWS, No. 1, located east of Fitch Avenue and No. 2, located west of Fitch Avenue, (Public Works, 1996), which were cleaned on an annual basis. The NAS Brunswick spill records include two spills at the ONFF that may have been discharged to Merriconeag Stream. According to the report for spill ID P-228-1985, in July 1985, 3,800 gallons of JP-5 aviation fuel was released to a roadside ditch leading to Picnic Pond at former Tank 204, with approximately 300 gallons recovered. In March 1994 an unknown quantity of oil was released to a stormwater ditch tributary to Picnic Pond near the OWS; absorbent booms were deployed as part the spill response (Environmental Department, 2005 and MEDEP, 2010).

The NAS Brunswick Transformer Database lists no electrical transformers for the Merriconeag Stream Area (PWD, 2009).

According to the Draft Final Remedial Investigation (RI) Report for NAS Brunswick, the land area is located within the Mere Brook Drainage Basin (E.C. Jordan, 1990). Surface water runoff and shallow groundwater flow within most of this area is generally west/southwest toward Merriconeag Stream, according to hydrogeologic information obtained relating to the IRP Eastern Plume site investigation (H&S Environmental, 2010) and the background study (Tetra Tech, 2010a). Surface water flow is to the south/southwest into Picnic Pond and eventually into Mere Brook. West of Merriconeag Stream, flow is toward the stream, to the east.

From the Soil Background Study for NAS Brunswick, soil data are available for four soil boring sample locations within the Merriconeag Stream Area (Tetra Tech, 2009). Preliminary groundwater data from three monitoring well locations within the Merriconeag Stream Area has been collected as part of an ongoing NAS Brunswick groundwater background investigation. The soil and groundwater sampling locations within the Merriconeag Stream Area are shown on Figure 2 and are summarized below.

Location	Sample ID ⁽¹⁾	Notes
Eastern section of the Merriconeag Stream Area, east of Merriconeag Stream	BG-SB-18, BG-SB-19, BG-SB-21 and BG-SB-22	soil borings within the Merriconeag Stream Area
	BG-MW-18, BG-MW-19 and BG-MW-21	background wells within the Merriconeag Stream Area

(1) Well ID prefix "NASB-" not shown.

The background sample collection area in the Merriconeag Stream Area is undeveloped, forested land northeast of Picnic Pond and was selected for inclusion in the background study because no known or suspected releases or disposal of petroleum or hazardous substances have been identified (Tetra Tech, 2009).

Surface (0 to 1 foot below ground surface [bgs]) and subsurface (1 to 10 feet bgs) soil samples were collected from the four soil sample locations. Several compounds were detected in the soil samples at concentrations below applicable criteria, including lead, zinc, and three pesticides: 4,4-DDT; 4,4-DDD; and 4,4-DDE. In surface and subsurface soils, arsenic was the only inorganic detected above the most stringent Maine Remedial Action Guideline (RAG) of 0.14 milligrams per kilogram (mg/kg). Arsenic concentrations ranged from 0.56 to 2.8 mg/kg. Non-parametric Upper Prediction Limit (UPL) for Upper Sand Soils are calculated values based upon results of a background study conducted for soils at NAS Brunswick (TtNUS, 2010a). Based upon this comparison, arsenic concentrations did not exceed the UPL. Therefore, the arsenic concentrations detected in the samples collected from the Merriconeag Stream Area are likely to be within the range of background for NAS Brunswick.

Preliminary Groundwater data collected in the fall of 2009 and the spring of 2010 as part of the ongoing background groundwater investigation, indicate that groundwater is encountered between approximately 1 and 3 feet below ground surface (bgs) at the wells located within the Merriconeag Stream. According to the Draft Final (RI) Report for NAS Brunswick, the groundwater flow direction from this portion of NAS Brunswick is to the west/southwest toward Merriconeag Stream.

Groundwater analytical results were compared with Maine Maximum Exposure Guidelines (MEGs) for drinking water and the federal maximum contaminant levels (MCLs) (MEDEP, 2010; U.S. EPA, 2010). No total or dissolved metals were detected above the Maine MEGs, with the exception of total aluminum in the April 2010 sample from well NASB-BG-MW-21, the southernmost well located in the Merriconeag Stream Area. The total aluminum concentration detected in the sample collected in September 2009 and both dissolved aluminum concentrations for groundwater samples collected from this well were below the MEGs. Based on these results, it is unlikely that groundwater underlying the Merriconeag Stream Area is impacted by any metals-related, historic disposal activities.

Information regarding the Eastern Plume IRP site, located southwest, was reviewed to determine potential impact to the groundwater underlying the Merriconeag Stream Area. The Eastern Plume groundwater contamination that has been attributed to past activities at Site 4 – Acid Caustic Pit, Site 11 – Fire Training Area, and Site 13 – DRMO, located west of the plume in the area between Sites 1 and 3 and Site 9. The Eastern Plume is bounded to the west and north by Merriconeag Road, to the south by Gurnet Road, and to the east by the western arm of Picnic Pond, in the northern part of the plume, and by Merriconeag Stream in the southern plume area. A small portion of the plume extends approximately 400 feet west of Merriconeag Road, immediately

north of Mere Brook. According to groundwater flow assessments, groundwater flow within the Eastern Plume is not likely to impact the Merriconeag Stream Area (H&S, 2010). The dissolved-phase plume consists mainly of chlorinated volatile organic compounds (VOCs). A groundwater extraction system has been operating since June 1995 to provide groundwater treatment and migration control. An ongoing Long Term Monitoring Program (LTMP) was implemented in 1995. According to the Third Five-Year Review Report published in September 2010 (Tetra Tech, 2010b), no deficiencies were identified during review of the Eastern Plume remedy, and no issues related to current site operations, conditions, or activities prevent the remedy from being protective. Surface water and sediment sample collection and analysis are also ongoing as part of the LTMP (H&S, 2010). Additionally, surface water and sediment samples were collected as part of an assessment focusing on Picnic Pond (Tetra Tech, 2009). While impacts to Picnic Pond, Mere Brook, and Merriconeag Stream have been identified relating to the Eastern Plume, since surface water drainage from the Merriconeag Stream Area is to the south, it is unlikely that surface water and sediment in the Merriconeag Stream Area are impacted by the Eastern Plume.

4. SITE VISIT AND INVESTIGATION

Site visits were conducted on August 27, 2008 by Jane Connet and Brandon Smith, P.E., and on October 14, 2010 by Jane Connet and James Forrelli, P.E., of Tetra Tech. The purpose of these visits was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report.

The Merriconeag Stream Area was visually inspected for signs of hazardous waste generation or storage. Site visit observations are summarized below:

- At the time of the inspection, there were no buildings and no active use of the Merriconeag Stream Area observed.
- There are no existing improvements at the Merriconeag Stream Area, with the exception of Neptune Drive, the three unnamed, unpaved access roads, and the railroad tracks, located in the western portion of the area.
- Most of the area is wooded and undeveloped.
- No evidence of current or past hazardous waste generation was observed.
- No evidence of hazardous waste residues was observed.
- No signs of a past release (staining, unusual odors, etc.) were observed.
- No hazardous waste storage areas or hazardous waste accumulation areas were observed.
- Merriconeag Stream was observed flowing through the area from approximately north to south.

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 the Merriconeag Stream Area.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No ASTs, USTs, or OWS have been utilized at the Merriconeag Stream Area, according to NAS Brunswick records.

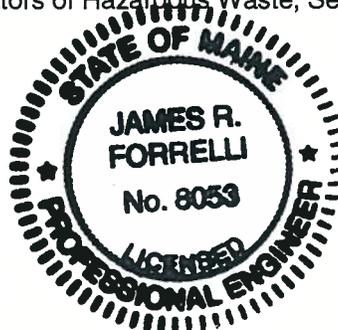
7. LIMITATIONS

This investigation of the hazardous waste closure requirements applies to the Merriconeag Stream Area (as shown on Figure 2) only.

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 the Merriconeag Stream Area. Based on the findings of the investigation as reported in this Partial Closure report, the hazardous waste closure of the Merriconeag Stream Area was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.


James Forrelli, 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.

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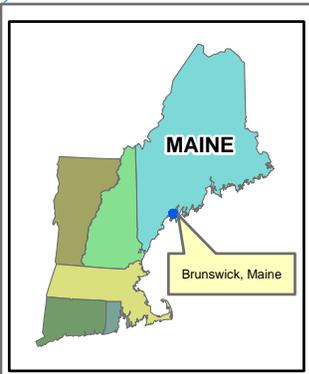
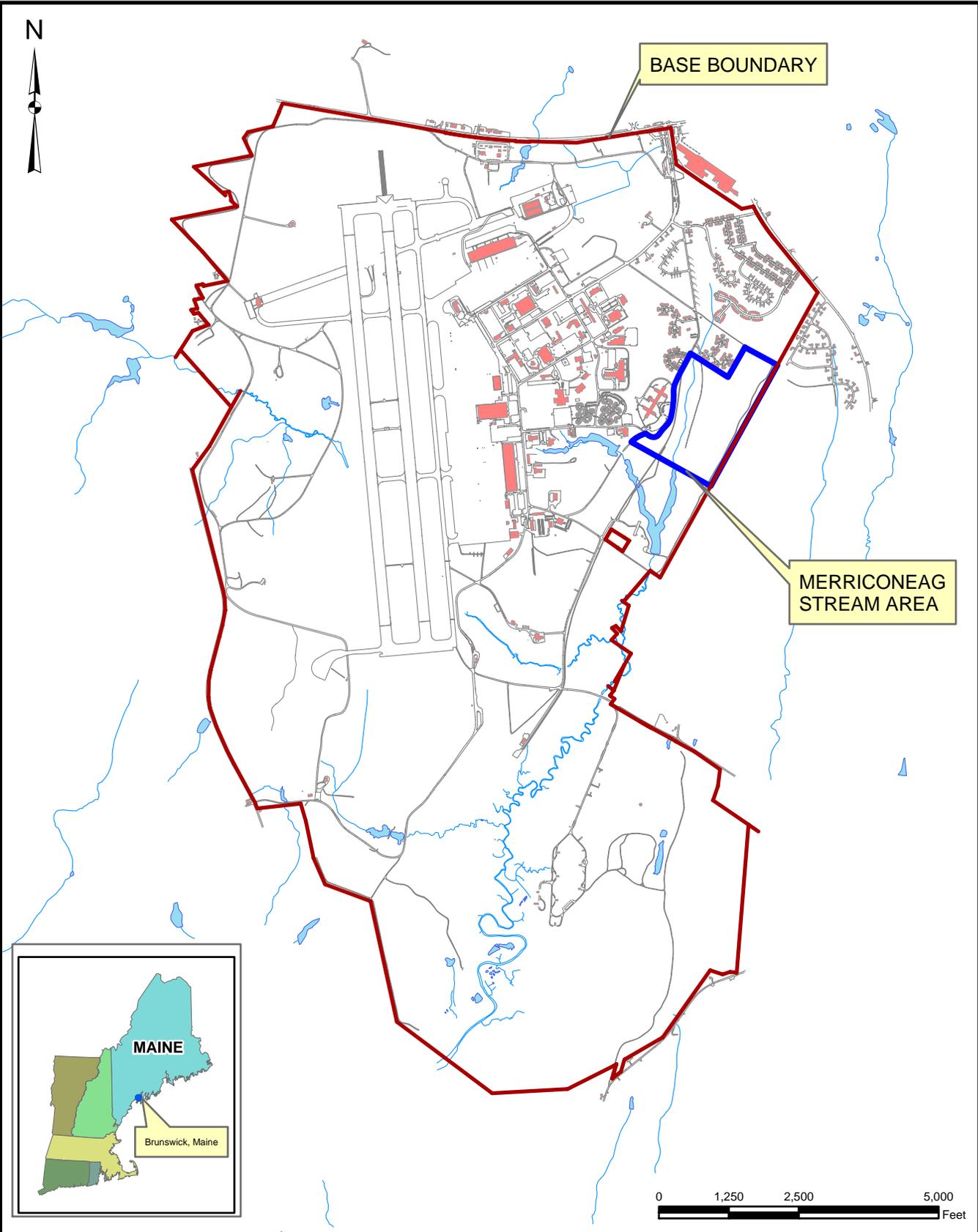
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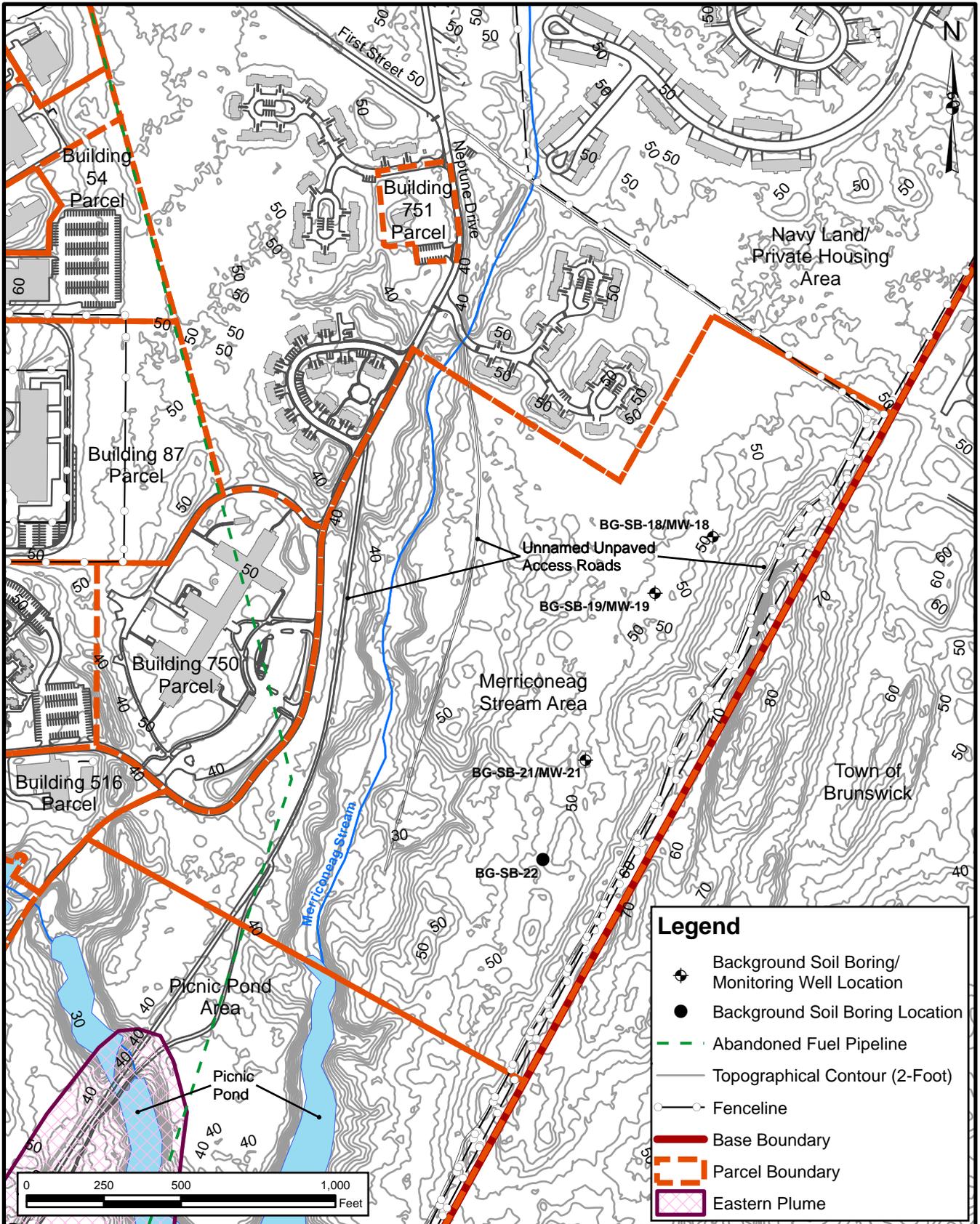
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Tetra Tech NUS, Inc.

SITE LOCATION MAP
 MERRICONEAG STREAM AREA
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE A:\WASB_PARCEL_11A_LOCUS.MXD	
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SITE PLAN AND BACKGROUND SAMPLE LOCATIONS
 MERRICONEAG STREAM AREA
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
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2	