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NAS BRUNSWICK  
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR BUILDING 51 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME  
1/21/2011  
NAS BRUNSWICK

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

January 21, 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

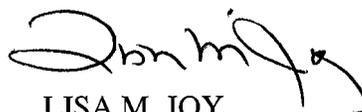
Subj: Final RCRA Partial Closure Report for Building 51

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 51 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](mailto:michael.fagan1@navy.mil).

Sincerely,



LISA M. JOY  
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 51

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)  
Lepage Environmental (C. Lepage)  
BRAC PMO NE (P. Burgio)

**RCRA PARTIAL CLOSURE REPORT**  
**for**  
**BUILDING 51 – NCIS/FIRE PREVENTION PARCEL**  
**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) Resource Conservation and Recovery Act (RCRA) or hazardous waste closure requirements have been completed for the Building 51 parcel at Naval Air Station Brunswick (NAS Brunswick).

## 2. PROPERTY DESCRIPTION

The Building 51 (Naval Criminal Investigation Services [NCIS]/Fire Prevention Building) parcel is located in the south-central portion of NAS Brunswick (Figure 1). As shown in Figure 2, the approximately 1.5-acre parcel is bounded as follows:

- Along its northern boundary - by the Building 29 (Hobby Shop) parcel, the Building 201 (Galley) parcel and the Upper Impoundment Pond.
- Along its eastern and southern boundaries - by the Building 55 (Security Building) parcel.
- Along its western boundary - by the Building 81 (Consolidated Hazardous Material Reutilization and Inventory Management Program [CHRIMP] Facility) parcel.

A portion of the northeastern area of the parcel lies within the boundaries of Installation Restoration Program (IRP) Site 9, the Neptune Drive Disposal Site (Figure 2). Also, the southern boundary of the Skeet Range Military Munitions Response Program (MMRP) Site crosses through the central portion of the parcel. Additional information on Site 9 and the Skeet Range as they relate to the Building 51 parcel is provided below, in Section 3.

Building 51 is located in the southernmost portion of the parcel, with grassed areas, a dirt access road, and former Building 52 to the north; paved and wooded areas to the east; a paved parking area and Building 55 to the south; and a paved parking area and Building 81 to the west and northwest, respectively. Building 51 is 4,200 square feet in area, and is a single-story, metal-framed structure on a concrete-slab foundation. The building interior consists of multiple offices and a restroom in the eastern portion, and office space, a restroom, and a storage garage in the western portion. Access to the eastern and western portions of the building is separate. Building 51 is heated by natural gas supplied by an off-site utility.

The foundation of a former building, Building 52 (Inert Storehouse), demolished prior to 2008, is located north of Building 51 in the northern portion of the parcel. That building's concrete, loading-ramp foundation remains, surrounded by chain-link fencing. Steel guardrails have been installed along the foundation's perimeter. Since the demolition of Building 52, this structure has been used for the bulk loading of dumpsters.

Five shed structures formerly used for the temporary storage of hazardous waste are currently (temporarily) staged at the Building 51 parcel. These wooden-construction storage sheds, equipped with a secondary-containment concrete bottom, were used at satellite accumulation areas (SAA) located at NAS Brunswick hangars. The structures were moved to their current, temporary staging location at the Building 51 parcel after all stored waste items had been removed. The structures are scheduled for cleaning and demolition by the Navy, and include five wooden sheds, as listed below:

**Temporary Structures Staged at Building 51 Parcel**

<b>Location/Structure</b>	<b>Former Off-Parcel Location</b>
Southwest corner of former Building 52:	
Structure XX	Former Hangar 1 South SAA
South corner of former Building 52:	
Structure YY	Hangar 5 North SAA
Structure ZZ	Hangar 5 South SAA
Structure AAA	Hangar 5 Bay 5 SAA
Structure BBB	Former Hangar 1 North SAA

Note: All structures are wooden sheds measuring 3 feet [ft] by 10 ft by 8 ft.

The surface topography of the parcel is relatively flat; the land slopes gradually to the northeast toward the Upper Impoundment Pond. From the southwest portion of the parcel to the northeast portion of the parcel, the difference in elevation is only approximately five feet.

Photographs of Building 51 and Former Building 52 are provided as an attachment to this report.

### **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 Building 51 parcel, 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.

The 1943 historical map shows the current location of Building 51 as vacant land. Beginning with the 1946 map and aerial photograph, Building 52 (Inert Storehouse) and Building 69 (Ready Magazine) are shown within the Building 51 parcel area. The former Building 69 was located within the current footprint of Building 51. The NAS Brunswick Skeet Range and an unnamed brook are shown to the north of Building 52 and a gun range is shown east of Building 69. The 1979 historical map and 1980 aerial photograph show the Skeet Range and Machine Gun Bore Range as closed. No further changes to the area are noted until the 2006 historical map, which shows former Building 52, as well as Building 51 in its current location, where Building 69 was previously located.

According to NAS Brunswick Environmental Department personnel, after its initial construction, Building 51 was intended to be used as a hazardous waste facility, however the NAS Brunswick Hazardous Waste Department never occupied the building and no hazardous waste was stored there. The building was used by NCIS and as a fire prevention office and storage area by the NAS Brunswick Fire Department for its entire history. No maintenance of fire equipment was conducted in the Fire Prevention garage.

The 1983 Initial Assessment Study (IAS), Table 6-10 (Weapons and Ordnance Stored at the Brunswick Naval Air Station), lists the use of Building 52 as an inert storehouse, but does not provide any specific information as to what items were stored at the building (NEESA, 1983).

No septic systems are present at Building 51. The Building is served by the base-wide sanitary sewer system (Navy, 2006).

No oil/water separator (OWS) has been associated with Building 51 (PWD, 2008b).

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 51 (Environmental Department, 1999; Environmental Department 2005; and MEDEP, 2010).

The NAS Brunswick Removed Transformer Database lists no electrical transformers associated with the current Building 51 (PWD, 2009).

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 51 indicate that no ASTs or USTs have been associated with Building 51 (Environmental Department, 2009).

As indicated on Figure 2, the northeast portion of the Building 51 parcel is located within the "likely shotfall zone" of the former NAS Brunswick Skeet Range, located east of the parcel and south of the Lower Impoundment Pond. The range is currently being investigated under the MMRP. The Skeet Range investigation results have not been published as of the date of this closure report. Any potential adverse impacts to the parcel resulting from past skeet range activities will be addressed by the MMRP.

No groundwater investigations have been conducted on the Building 51 parcel; therefore, groundwater characterization information for the parcel is not available. Information on known NAS Brunswick groundwater contamination areas was reviewed to determine if groundwater underlying the Building 51 parcel could potentially be impacted by another (off-parcel) source.

As noted in Section 2, a small portion of the southwestern boundary of IRP Site 9 falls within the northeastern portion of the Building 51 parcel (Figure 2). From the Site 9 landfill/source area, located to the north/northeast of the parcel, groundwater flow is generally in a south-southeast direction. Therefore, migration of contaminated groundwater from the IRP Site 9 source area would not be expected to impact the Building 51 parcel, which is located southwest of Site 9.

It is also noted that a groundwater monitoring well associated with the Site 9 investigation, well MW-09-001, is located immediately north of the Building 81 parcel boundary and adjacent to the Building 79 (Hobby Shop Storage) fence line, to the northwest. The groundwater flow direction in the vicinity of the well has been estimated to be toward the southeast, directly toward the Upper Impoundment Pond. In April 2009 and in the prior monitoring event, concentrations of volatile organic compounds (VOCs) detected in groundwater from this well were below the Federal Maximum Contaminant Levels (MCLs) and State Maximum Exposure Guidelines (MEGs), per the Draft Site 9 Monitoring Event 34 Report - April 2009 (H&S, 2009). Only sodium in Event 33 was above the State MEG of 20,000 µg/L. Further, any potential future adverse impacts to the Building 51 parcel groundwater, resulting from Site 9, would be addressed as part of the IRP.

#### **4. SITE VISIT AND INVESTIGATION**

A site visit was conducted for Building 51 on December 2, 2010 by Mr. James Forrelli, P.E., and Mr. Brandon Smith, P.E., 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 <sup>(1)</sup>, are summarized below:

- At the time of inspection, Building 51 was in good condition; the NCIS portion of the building was vacant and contained office furniture; the Fire Prevention portion of the building was occupied and contained office furniture, fire equipment, 27 5-gallon containers of aqueous film-forming foam (AFFF), and a fire engine.
- No evidence of hazardous waste residues was observed.
- No signs of a past release (staining, unusual odors, stressed vegetation, etc.) nor structural modifications that could conceal signs of a past release were observed.
- No floor drains were observed in Building 51.
- No peeling or flaking paint was observed on the exterior or interior of the building.
- Five shed structures formerly used for the temporary storage of hazardous waste (Structures XX, YY, ZZ, AAA and BBB) were staged near the southwest corner of former Building 52 foundation prior to their scheduled cleaning and demolition. All five sheds were empty.
- A groundwater monitoring well was observed off-parcel, to the northwest of former Building 52 and adjacent to the Building 79 (Hobby Shop Storage) fence line. The well is identified as MW-09-001 and has an aboveground protective casing. (This well and associated groundwater monitoring is discussed in Section 3.)

Based on the records research and site visit observations, the following conclusions were made regarding the potential for hazardous waste residues to be present at the Building 51 parcel.

Former Building 52, demolished prior to 2008, served as an inert storehouse for its entire service timeframe. Based on its use as an inert storehouse, it is unlikely that any activities within the building would have generated hazardous waste. The existing, concrete loading-platform, remaining after demolition of Building 52, was used only for bulk loading and unloading of empty dumpsters. Therefore, the location of the former building was not targeted for further investigation.

The temporary storage shed structures currently staged at the Building 51 parcel were used to store hazardous waste at satellite accumulation areas located at other RCRA partial closure parcels (NAS Brunswick hangars). The hazardous waste material stored in these sheds was removed and properly disposed of through the NAS Brunswick Hazardous Waste Department prior to their relocation to the temporary staging location at the Building 51 parcel. No additional hazardous waste has been stored in these structures during the staging period. The structures are scheduled for cleaning and then demolition and off-site disposal by the Navy. Therefore, the temporary staging area for the sheds was not targeted for further investigation.

Former Building 69 (Ready Magazine), demolished prior to 2005, served as a ready magazine for its entire service timeframe. Based on its use as a weapons magazine for storage of munitions only, it is unlikely that any activities within the building would have generated hazardous waste. Additionally, this former building was located within the footprint of the current Building 51, and this location would have been significantly re-worked during demolition activities and Building 51 construction activities; it is highly unlikely that any potential residue related to the former building would still exist or be identifiable. Therefore, the site of the former Building 69 was not targeted for further investigation.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 51 is required to complete the MEDEP hazardous waste closure requirements.

## **5. HAZARDOUS WASTE GENERATION AND STORAGE**

Based on the records research, site visit observations, sampling results, and NAS Brunswick Environmental Department personnel interviews, with the exception of universal waste, no hazardous waste generation, accumulation, or storage activity occurred at Building 51, and it is very unlikely that such activity occurred at former Buildings 52 and 69.

## 6. OTHER ENVIRONMENTAL CONSIDERATIONS

No tanks or transformers were historically associated with the Building 51 parcel, none were observed in the immediate vicinity of the Building 51 parcel, and none are known to exist in this area.

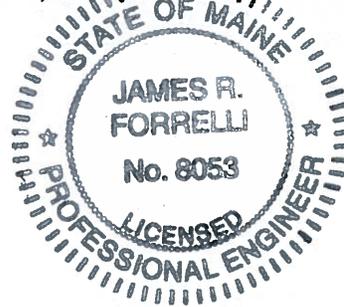
## 7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 51 parcel (as shown on Figure 2) only, with the exception of the five temporary shed structures formerly used off-parcel for the storage of hazardous waste (Structures XX, YY, ZZ, AAA and BBB), which are scheduled for cleaning and demolition by the Navy. (The cleaning and demolition of these five structures will be documented in an addendum to this RCRA Partial Closure Report.)

## 8. CERTIFICATION

Based on the findings of this investigation, there is no record or evidence of hazardous waste generation, accumulation, or storage at the Building 51 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 51 parcel 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.



<sup>(1)</sup> 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

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- EA, 1999. Record of Decision for Site 9, NAS Brunswick, Maine. September.
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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.

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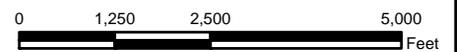
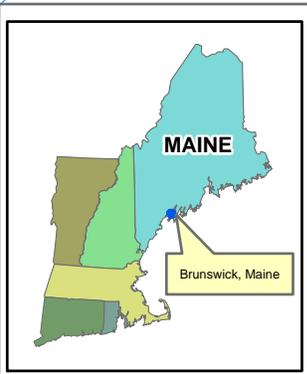
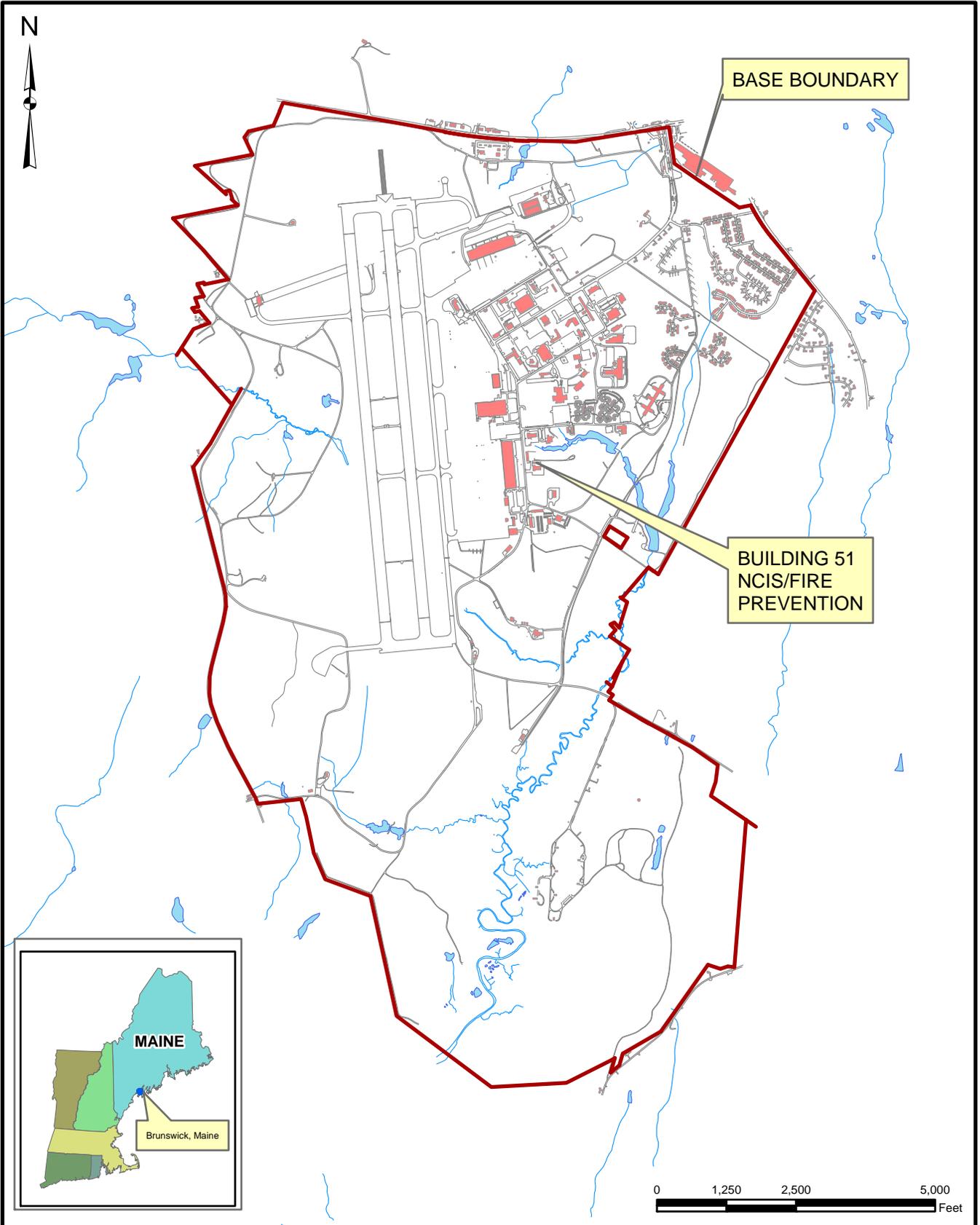
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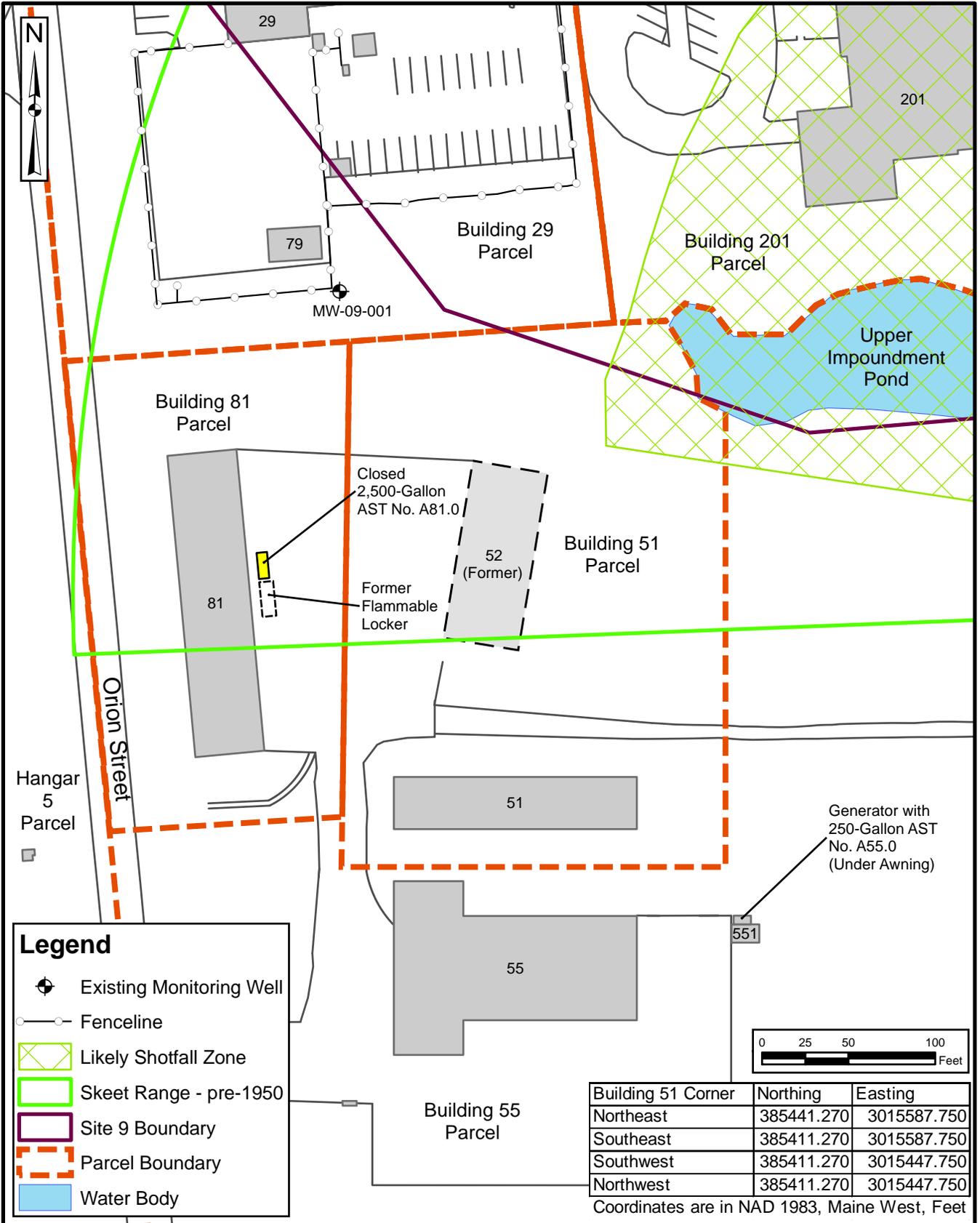
U.S. Navy, 1999. Final Record of Decision for the Groundwater Operable Unit at Site 9, Naval Air Station Brunswick, Brunswick, Maine. September.



Tetra Tech NUS, Inc.

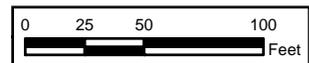
SITE LOCATION MAP  
 BUILDING 51 - NCIS/FIRE PREVENTION PARCEL  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\WASB_BLDG_51_LOCUS.MXD	
REV 0	DATE 1/6/11
FIGURE NUMBER 1	



**Legend**

- Existing Monitoring Well
- Fenceline
- Likely Shotfall Zone
- Skeet Range - pre-1950
- Site 9 Boundary
- Parcel Boundary
- Water Body



Building 51 Corner	Northing	Easting
Northeast	385441.270	3015587.750
Southeast	385411.270	3015587.750
Southwest	385411.270	3015447.750
Northwest	385411.270	3015447.750

Coordinates are in NAD 1983, Maine West, Feet

<p><b>Tetra Tech NUS, Inc.</b></p>	<p><b>SITE MAP</b></p> <p>BUILDING 51 - NCIS/FIRE PREVENTION PARCEL</p> <p>RCRA PARTIAL CLOSURE REPORT</p> <p>NAVAL AIR STATION BRUNSWICK, MAINE</p>	<p>SCALE AS NOTED</p>				
		<p>FILE L:\NASB_BLDG_51_SITE_MAP.MXD</p>				
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	<p>FIGURE NUMBER FIGURE NO. 2</p>					

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

**Inspection Date:** 12/02/10

**Personnel:** James Forrelli, P.E. / Brandon Smith, P.E.

**Weather:** Clear, 30s

**GENERAL BUILDING INFORMATION / USES**

Building Name: Building 51 – NCIS / Fire Prevention Building

Function: NCIS office and fire equipment storage and fire prevention office.

Size: 4,200 SF

Year of Construction: 2005

Building 51 is located in the central portion of NASB Brunswick and is bordered to the north by the Skeet Range MMRP site, Site 9, Former Building 52 (Inert Storehouse) concrete loading platform, the Building 29 (Hobby Shop parcel) and the Building 201 (Galley) parcel, to the east and south the Building 55 (Security Building) parcel, and to the west the Building 81 (CHRIMP) parcel and Orion Street beyond. It was constructed in 2005 and served as the NCIS office and fire prevention office and storage for NAS Brunswick. Building 51 is a 4,200-square foot single story metal frame and siding structure on a concrete slab foundation. The building interior consists of an office space with multiple offices and a restroom in the eastern portion and office space, a restroom, and storage garage in the western portion. Building access to the eastern and western portions of the building is separate. The building is heated via two natural gas fired furnaces.

**HWSA INSPECTION / CONDITION**

At the time of inspection, Building 51 was in good condition; the NCIS portion was vacant and contained office furniture. The Fire Prevention portion was occupied and contained a office furniture, fire equipment and a fire engine.

No record of hazardous waste stored at Building 51.

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 51.

**APPLICABLE REPORTS / DOCUMENTS**

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

1943 Map – No buildings present; vacant undeveloped land.

1946 Map – Building 52 (Inert Storehouse) and Building 69 (Ready Magazine) present; Skeet Range and unnamed brook present north of Building 52.

1952 Map - Same as 1946 map.

1956 Map - Same as 1952 map; First Street to the west of area.

1957 Map – Same as 1956 map.

1958 aerial – Building 52 and 69 are shown with the Skeet Range to the north and a gun range to the south.

1959-1978 aerials – same as 1958 aerial

1975 Map – Same as 1957 map.

1978 Map – No buildings are shown.

1979 Map – Buildings 52 and 69 present; Skeet Range and Machine Gun Bore Site appear to be razed/closed.

1980 and 1981 aerials – Buildings 52 and 69 present; Skeet Range and Machine Gun Bore Site appear to be razed/closed.

1983 Map – Same as 1979 map.

1984 aerial – Same as 1981 aerial.

1989 Map – Same as 1983 map.

1989 aerial – Same as 1984 aerial.

1993 aerial - same as 1989 aerial.

1997 aerial - same as 1993 aerial.

2006 Map – Building 51 shown (unlabeled) and Building 52 shown.

There are no above ground storage tanks (ASTs), underground storage tanks (USTs) or oil-water separators (OWS) registered to Building 51.

No spills were reported in the MEDEP or NASB spill logs. Wastewater is disposed of via the sanitary sewer.

**HAZARDOUS WASTE STORAGE RECORDS**

No hazardous waste was historically stored at Building 51 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. Building Number 51 was previously assigned a former building located south of Hangar 2 that served as a Public Works paint storage building and paint shop.

(SEE ATTACHED PHOTOGRAPHS)

INSPECTOR SIGNATURE: \_\_\_\_\_



**PHOTOGRAPHS**



No. 1 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
NCIS/Fire Prevention Building western elevation; Building 55 to right of frame



No. 2 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
NCIS/Fire Prevention Building eastern elevation



No. 3 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
NCIS/Fire Prevention Building interior; NCIS office in western portion of building



No. 4 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
NCIS/Fire Prevention Building interior; Fire Prevention office in eastern portion of building



No. 5 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
NCIS/Fire Prevention Building interior; Fire Prevention garage used for equipment and fire engine in eastern portion of building



No. 6 Building 51 – NCIS/Fire Prevention, NAS Brunswick December 2, 2010  
Former Building 52 (Inert Storehouse) foundation north of Building 51