

N60087.AR.002211  
NAS BRUNSWICK  
5090.3a

FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR BUILDINGS 21, 26 AND 253 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME  
5/10/2010  
NAS BRUNSWICK

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

May 10, 2010

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 21, 26, and 253

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Buildings 21, 26, and 253 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,

  
For LISA M. JOY  
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for 21, 26, and 253

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

**RCRA PARTIAL CLOSURE REPORT**  
**for**  
**BUILDING 21 – CHILD CARE CENTER PARCEL**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**APRIL 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 the Building 21 parcel, at Naval Air Station Brunswick (NAS Brunswick).

## **2. PROPERTY DESCRIPTION**

The Building 21 parcel is located in the central portion of NAS Brunswick (see Figure 1). The approximately 1.1-acre parcel (see Figure 2) bordered to the north by the Building 24 (PSD Building) parcel; to the east and south by the Building 26 (Child Care Center) parcel; to the; and to the west by the Building 23 (Car Wash) parcel. The parcel contains Building 21, known as the Child Care Center, adjacent grass-covered area and an asphalt-paved parking lot located in the southern portion. Two fenced playground areas are located east and southwest of the building.

Building 21, constructed in 1983, was used as a childcare facility. It consists of a 4,975-square foot, one-story, steel-frame building with metal siding on a concrete slab foundation. The building contains office space, restrooms, kitchen area, activity area, and classroom space. Building 21 features a natural-gas heating system located to the north in a separate exterior boiler room. Photographs of the facility 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 21 parcel, including past use and operations at this location.

According to NAS Brunswick Environmental Department personnel, from its construction in 1983, Building 21 was used as a childcare center. There is no record of hazardous waste generation at Building 21.

Records reviewed include: historical aerial photographs; the NAS Brunswick Other Environmental Liabilities (OEL) Database; area-specific reports; facility plans and drawings; and hazardous operation records. Aerial photographs dated 1958, 1978, 1984, and 1989 (all produced by James W. Sewall Company) were reviewed along with Public Works Department site base maps dated 1946, 1952, 1956, 1962, 1983, 1989, and 2006 to provide historical information.

The current location of Building 21 was a wooded area until 1983 according to review of available historical maps and aerial photographs. Building 21 is present beginning in the 1983 aerial photographs.

According to the NAS Brunswick transformer database, there are no electrical transformers associated with Building 21 (PWD, 2010). As of July 1, 1979, the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB electrical equipment (transformers and capacitors). Since there are no buildings shown on this parcel prior to 1979 it is unlikely that a PCB-containing transformer existed on the Building 21 parcel.

NAS Brunswick aboveground storage tank (AST) and underground storage tank (UST) inventory records for Building 21 indicate that two 275-gallon, single-walled steel tanks (ASTs A21.0 and A21.1) containing No. 1 fuel oil for heating were installed inside of the Building 21 boiler room in 1997 and removed in 2001. No underground storage tanks (USTs) were present at Building 21, according to NAS Brunswick records (Environmental Department, 2009).

No groundwater investigations have been conducted in the vicinity of the Building 21 parcel; therefore groundwater characterization information for the parcel is not available. Available information for known groundwater contamination areas at NAS Brunswick was reviewed to determine if groundwater underlying the Building 21 parcel could potentially be impacted by another (off-parcel) source area.

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

A Building 21 site visit was conducted by Mr. Brandon Smith, P.E. and Mr. James Forrelli, P.E. of Tetra Tech on June 30, 2009. An additional site visit was conducted to inspect the Building 21 parcel on April 27, 2010. The purpose of the visits was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report. TtNUS personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The Building 21 parcel location 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 the building inspection, Building 21 was occupied and in good condition.
- 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 and no structural modifications, which could conceal signs of a past release, were observed.
- No hazardous waste storage areas or hazardous waste accumulation areas were observed.
- No transformers that could be a potential source of PCB contamination in the event of a leak were observed.

The available information regarding the historical activities that occurred at the parcel and the location of known NAS Brunswick groundwater contamination areas indicates that there is no evidence to suggest that groundwater underlying the Building 21 parcel has been adversely impacted by a release, either from within the parcel or from another (off-parcel) source area.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 21 parcel 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, with the exception of universal waste, was conducted at the Building 21 parcel.

#### **6. OTHER ENVIRONMENTAL CONSIDERATIONS**

No USTs or ASTs were observed at the Building 21 parcel.

## 7. LIMITATIONS

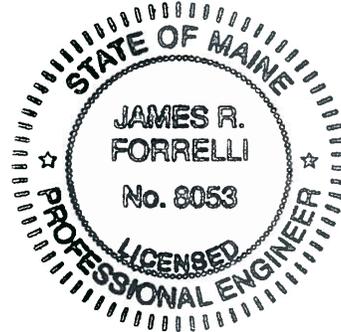
This investigation of the hazardous waste closure requirement applies to the Building 21 parcel (as shown on Figure 2) only.

## 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 Building 21 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 21 parcel was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.

*James R. Forrelli*

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

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

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

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

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

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

Mid-Coast Regional Redevelopment Authority, 2006. BNAS Reuse Master Plan Property Condition Assessment.

Public Works Department (PWD), 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30, 1946.

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

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

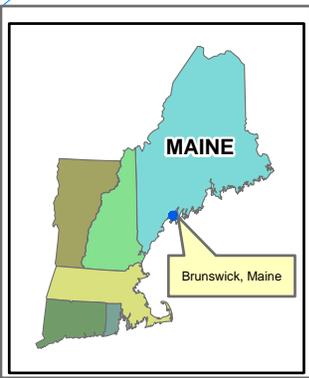
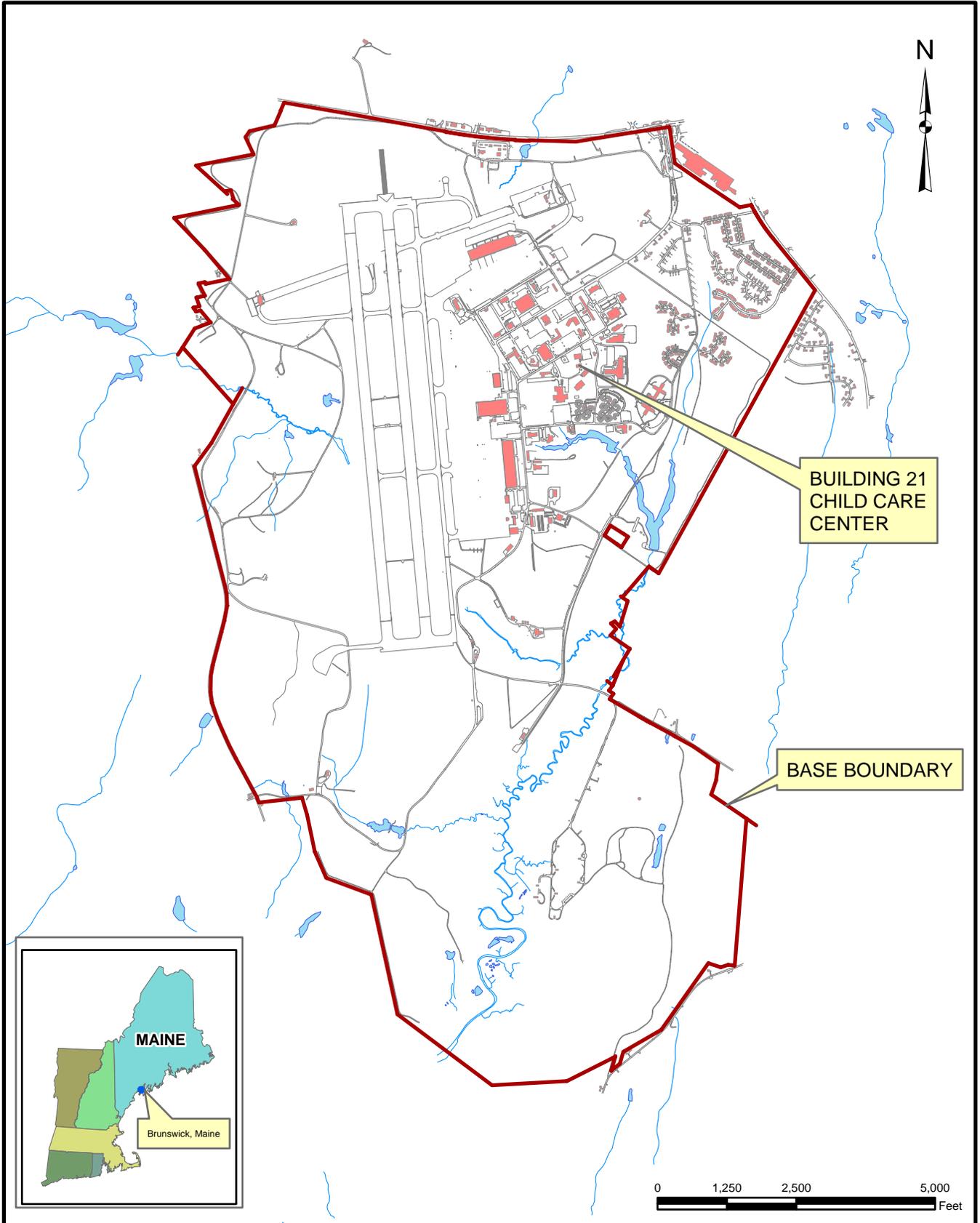
PWD, 1962. "Map of Streets," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. 1962.

PWD, 1983. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. May 5, 1983.

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

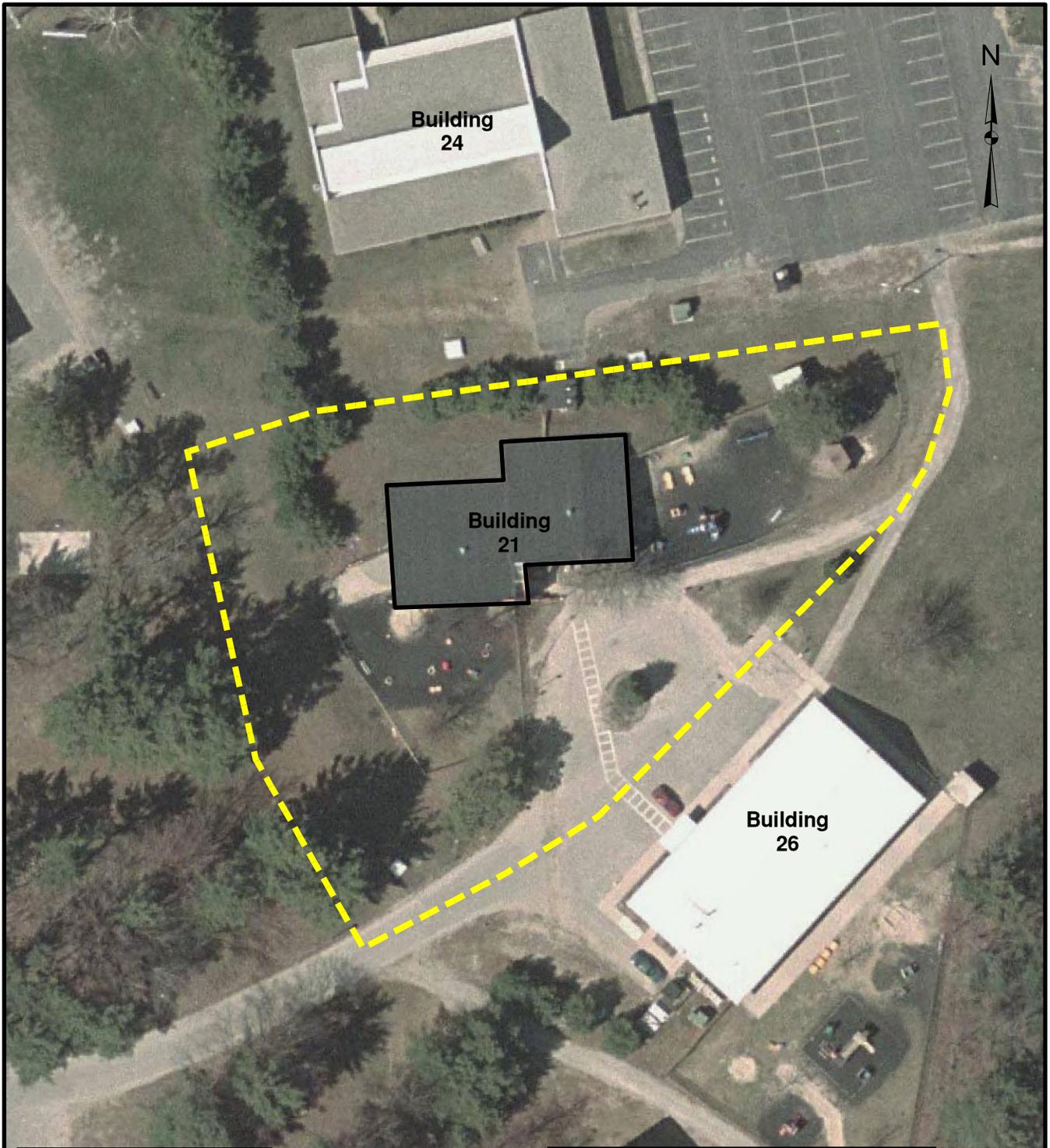
PWD, 2006. Brunswick Naval Air Station, NAS Brunswick, Maine. 2006.

PWD. 2010. Transformer Database. NAS Brunswick, Maine. 2010.

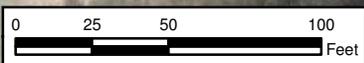


**SITE LOCATION MAP**  
**BUILDING 21 - CHILD CARE CENTER**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE I:\_NASB_BLDG_21_LOCUS.MXD	
REV 0	DATE 04/28/10
FIGURE NUMBER 1	



**Legend**  
 Parcel Boundary



Building Corner	Northing	Easting
Northeast	387197.750	3016309.560
Southeast	387146.500	3016312.310
Southwest	387124.880	3016213.310
Northwest	387176.130	3016210.680

Coordinates are in NAD 1983, Maine West, Feet



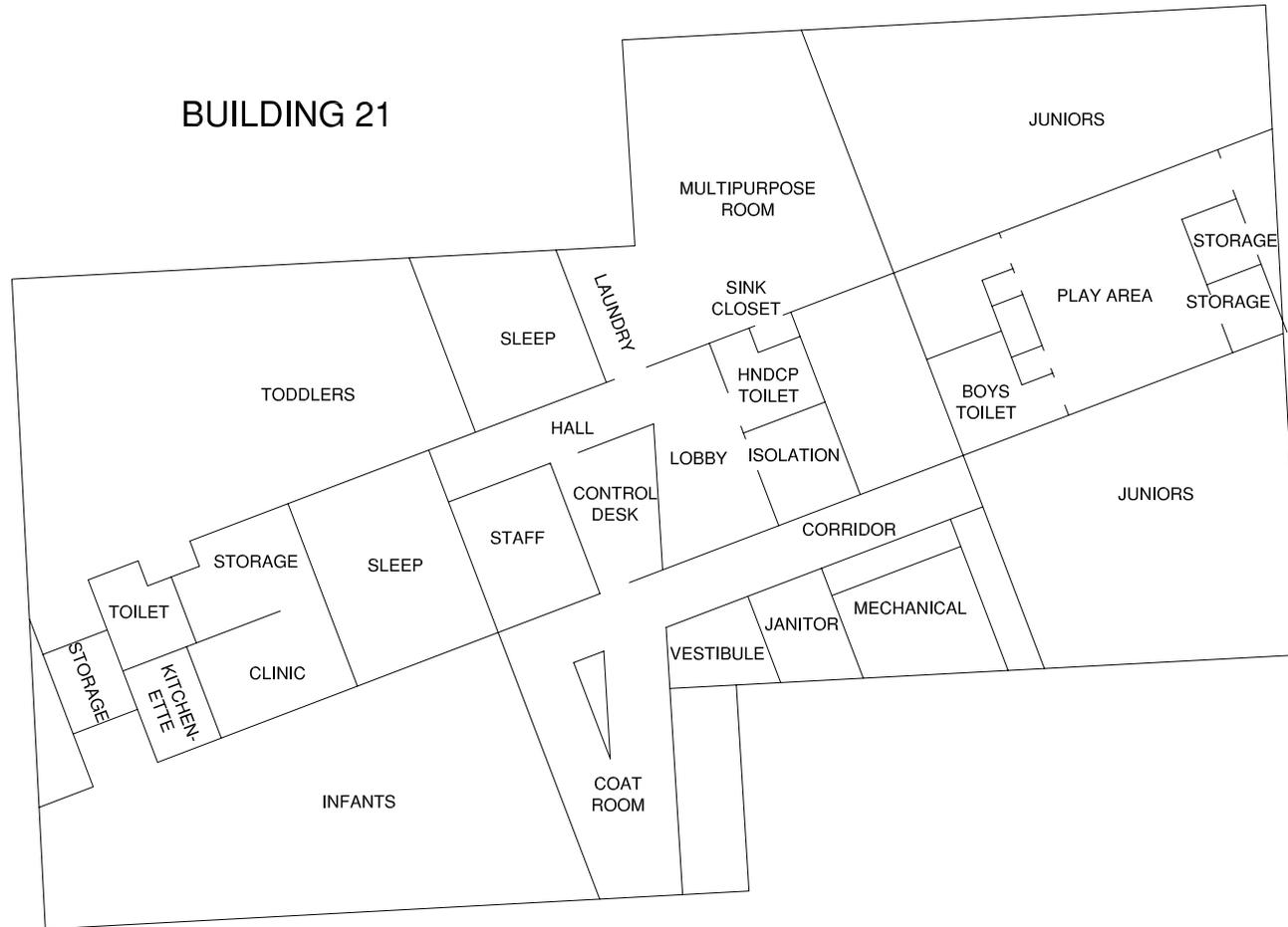
Tetra Tech NUS, Inc.

**SITE PLAN**  
 BUILDING 21 - CHILD CARE CENTER  
 RCRA PARTIAL CLOSURE REPORT  
 NAS BRUNSWICK, MAINE

SCALE AS NOTED	
FILE \\NASB_BLDG_21_ORTHO.MXD	
REV	DATE
0	05/06/10
FIGURE NUMBER	
2	



BUILDING 21



TETRA TECH NUS, INC.

FLOOR PLAN  
 BUILDING 21 - CHILD CARE CENTER  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE  
 AS NOTED

FILE  
 \.. \NASB\_BLDG\_21\_FP.DWG.DWG

REV	DATE
0	04/29/10

FIGURE NUMBER  
 3

**BUILDING INSPECTION FORM  
RCRA PARTIAL CLOSURE PROGRAM  
NAS BRUNSWICK  
BRUNSWICK, MAINE  
CTO WE22**

**Inspection Date:** 6/30/09 & 4/27/2010

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

**Weather:** Overcast 80s

**GENERAL BUILDING INFORMATION / USES**

Building Name: Child Care Center  
 Function: Child care center  
 Size: 4,975 SF  
 Year of Construction: 1983

Building 21 is located on 3rd Street south of Building 24 (PSD Building) and adjacent to Building 26 at NAS Brunswick. It was constructed in 1983 and served as a child care center for its entire history. Building 21 consists of a 4,975 square-foot, one story metal-sided building on a concrete slab foundation.

Building 21 was used as a child care center. Building 21 contains child classroom space, administrative and storage space, and kitchen and laundry facilities.

No hazardous waste was generated during the operations in Building 21, according to NASB personnel. Building 21 was heated via natural gas boilers in an exterior boiler room. It was previously heated via fuel-oil fired furnace.

**BUILDING INSPECTION / CONDITION**

No record of hazardous waste stored at Building 21.

The building was not occupied at the time of the site visit and appeared in good 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.

**HAZARDOUS WASTE STORED / GENERATED**

No hazardous waste was stored or generated at Building 21, according to NASB personnel.

**POTENTIAL PCB-CONTAINING TRANSFORMERS**

The NASB transformer database lists the following transformer associated with Building 21:

113 KVA Pad-Mounted - Cooper Serial No. 906007355 - Non-PCB containing (<2 ppm PCBs)

**APPLICABLE REPORTS / DOCUMENTS**

Available historical plans and aerial photos were reviewed for past property uses:

- 1943 plan - Building 30 (Dispensary) is present north of Building 21 parcel.
- 1946 plan - Same as 1943 plan
- 1952 plan - Same as 1946
- 1956 plan - Same as 1952 plan
- 1958 aerial - Building 21 parcel wooded area. Building 30 to the north, Building 211 to the west
- 1978 aerial - same as 1958 aerial, with baseball field to the south.
- 1983 plan - Unlabeled building located at current location of Building 21 parcel
- 1984 aerial - Building 21 present in current location, with Building 24 to the north.
- 1989 plan - same as 1983 plan.
- 1989 aerial - same as 1984 aerial
- 1993 aerial - Building 26 (Child Care Center) now present to the south of Building 21.
- 2006 plan - Building 21 identified at current location.

The following ASTs were present at Building 21 according to NASB records:

- A21.0 - 275 gallon SWS containing #1 fuel oil for heating (Installed 1997, removed 2001)
- A21.1 - 275 gallon SWS containing #1 fuel oil for heating (Installed 1997, removed 2001)

No USTs were present at Building 21 according to NASB records.

**HAZARDOUS WASTE STORAGE RECORDS**

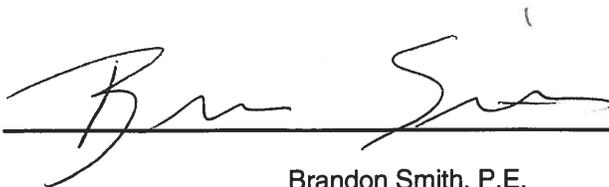
No hazardous waste was historically stored at Building 21, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

**MISCELLANEOUS NOTES**

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

(SEE ATTACHED BUILDING FLOOR PLAN AND PHOTOGRAPHS)

INSPECTOR SIGNATURE:

  
Brandon Smith, P.E.

**PHOTOGRAPHS**



No. 1 Building 21 – NAS Brunswick  
Building 21 – Child Care Center southeast elevation

April 27, 2010



No. 2 Building 21 – NAS Brunswick  
Building 21 – Child Care Center northeast elevation

April 27, 2010

**PHOTOGRAPHS**



No. 3 Building 21 – NAS Brunswick  
Building 21 – Child Care Center classroom interior

April 27, 2010



No. 4 Building 21 – NAS Brunswick  
Building 21 – Child Care Center classroom interior

April 27, 2010

**RCRA PARTIAL CLOSURE REPORT**  
for  
**BUILDING 26 – CHILD CARE CENTER PARCEL**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**APRIL 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 the Building 26 parcel, at Naval Air Station Brunswick (NAS Brunswick).

## **2. PROPERTY DESCRIPTION**

The Building 26 parcel is located in the central portion of NAS Brunswick (see Figure 1). The approximately 2.2-acre parcel (see Figure 2) bordered to the north by the Building 21 (Child Care Center) and the Building 24 (PSD Building) parcels; to the east by Pegasus Street; and to the south by the Building 25 (Indoor Fitness Center) parcel. The parcel contains Building 26, known as the Child Care Center, adjacent grass-covered areas and an asphalt-paved parking area located in the western portion. A fenced playground area is located east of the building and a stand of trees is situated in the southeast portion of the parcel. In addition, two storage sheds are located along the southwest side of Building 26.

Building 26, constructed in 1990, was used as a childcare facility. It consists of a 6,496-square foot, one-story, steel-frame building with metal siding on a concrete slab foundation. The building contains office space, restrooms, kitchen area, activity area, classroom space, and a mechanical room. Building 26 features a natural-gas heating system. Photographs of the facility 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 26 parcel, including past use and operations at this location.

According to NAS Brunswick Environmental Department personnel, from its construction in 1990, Building 26 was used as a childcare center. There is no record of hazardous waste generation or accumulation at Building 26.

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 1958, 1978, 1984, and 1989 (all produced by James W. Sewall Company) were reviewed along with Public Works Department site base maps dated 1946, 1952, 1956, 1962, 1983, 1989, and 2006 to provide historical information.

The current location of Building 26 was a wooded area until 1990 according to review of available historical maps and aerial photographs. Building 21 is present to the north beginning in the 1983 aerial photographs. Building 26 was constructed prior to the 1993 aerial photograph and is shown in its current location.

The NASB Transformer Database lists one non-polychlorinated-biphenyl (PCB)-containing electrical transformer for Building 26; a 113-kVa pad-mounted transformer (Cooper Serial No. 906007355) (PWD, 2010). The serial numbers for the Cooper-manufactured units indicate that they were manufactured after 1979 and therefore are unlikely to contain PCBs. As of July 1,

1979, the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB electrical equipment (transformers and capacitors). Since there are no buildings shown on this parcel prior to 1979 it is unlikely that a PCB-containing transformer existed on the Building 26 parcel.

NAS Brunswick aboveground storage tank (AST) and underground storage tank (UST) inventory records for Building 26 indicate that two 275-gallon, single-walled steel tanks (ASTs A26.0 and A26.1) containing No. 1 fuel oil for heating were installed in 1999 and removed in 2002. A 550-gallon, fiberglass reinforced plastic (FRP) underground storage tank (UST #10045-483) containing No. 1 fuel oil for heating was installed in 1990 and replaced by the two ASTs in 1999 (Environmental Department, 2009).

No groundwater investigations have been conducted in the vicinity of the Building 26 parcel; therefore groundwater characterization information for the parcel is not available. Available information for known groundwater contamination areas at NAS Brunswick was reviewed to determine if groundwater underlying the Building 26 parcel could potentially be impacted by another (off-parcel) source area.

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

A Building 26 site visit was conducted by Mr. Brandon Smith, P.E. and Mr. James Forrelli, P.E. of Tetra Tech on June 30, 2009. An additional site visit was conducted to inspect the Building 26 parcel on April 27, 2010. The purpose of the visits 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 26 parcel location was visually inspected for signs of hazardous waste generation or storage activity. Site visit observations, recorded on the attached Building Inspection Form <sup>(1)</sup>, are summarized below:

- At the time of the building inspection, Building 26 was occupied and in good 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, etc.) were observed and no structural modifications, which could conceal signs of a past release, were observed.
- No hazardous waste storage areas or hazardous waste accumulation areas were observed.
- One concrete pad-mounted transformer was identified at the south corner of Building 26. No evidence of a past leak from this transformer was observed. (As discussed in Section 3, according to the NAS Brunswick transformer database this transformer is unlikely to contain PCBs.)

The available information regarding the historical activities that occurred at the parcel and the location of known NAS Brunswick groundwater contamination areas indicates that there is no evidence to suggest that groundwater underlying the Building 26 parcel has been adversely impacted by a release, either from within the parcel or from another (off-parcel) source area.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 26 parcel 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, except for universal waste, was conducted at the Building 26 parcel.

## 6. OTHER ENVIRONMENTAL CONSIDERATIONS

No USTs or ASTs were observed at the Building 26 parcel.

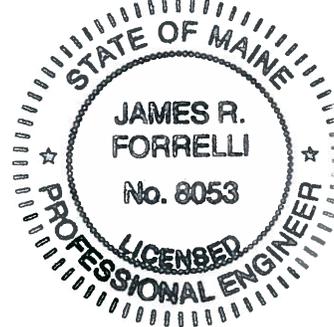
## 7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 26 parcel (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 Building 26 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 26 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

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

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

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

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

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

Mid-Coast Regional Redevelopment Authority, 2006. BNAS Reuse Master Plan Property Condition Assessment.

Public Works Department (PWD), 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30, 1946.

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

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

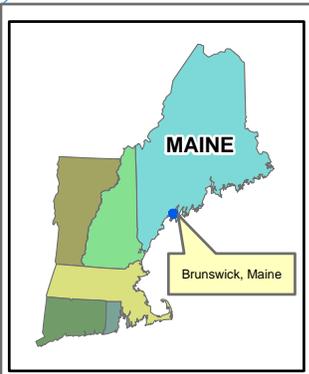
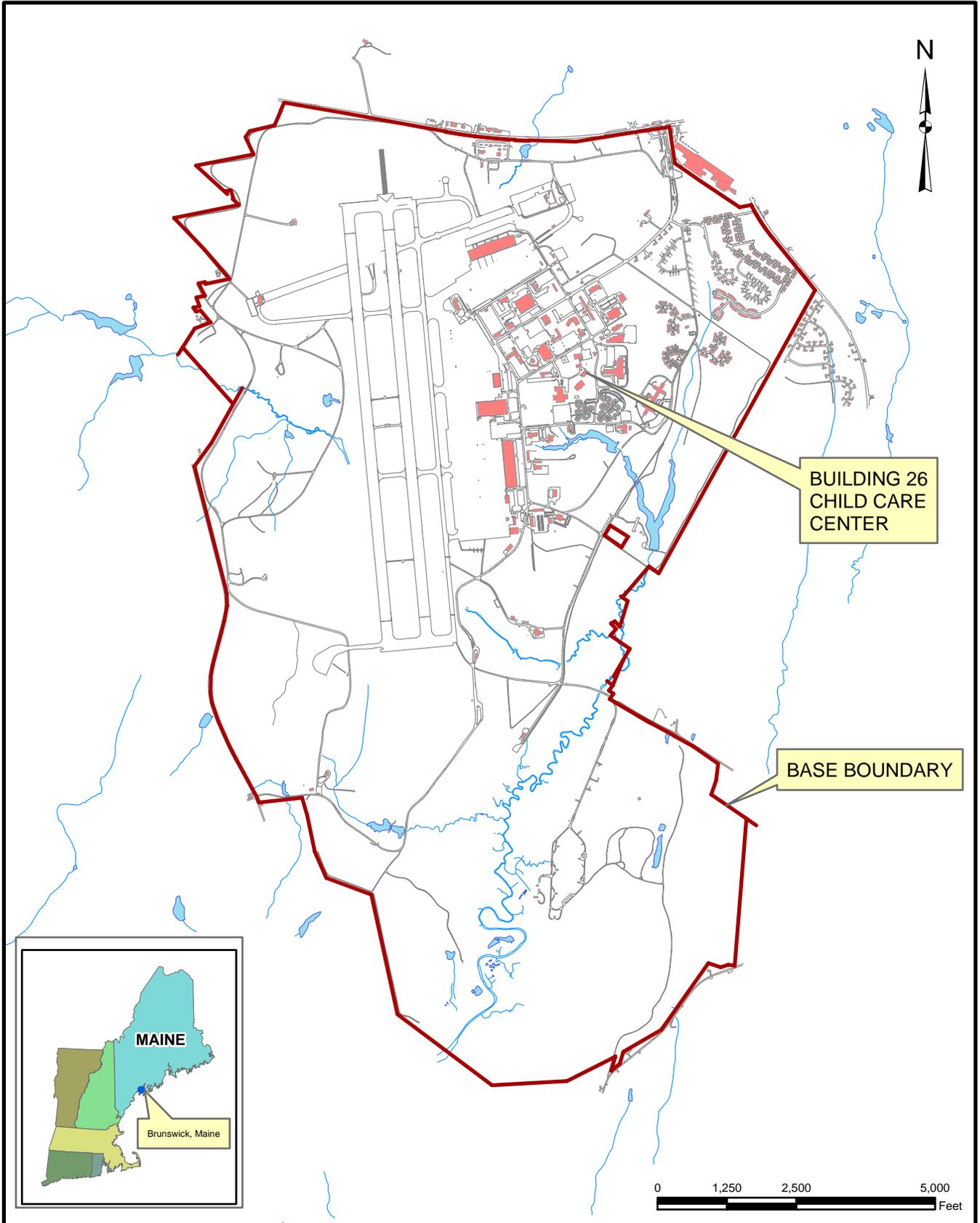
PWD, 1962. "Map of Streets," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. 1962.

PWD, 1983. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. May 5, 1983.

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

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

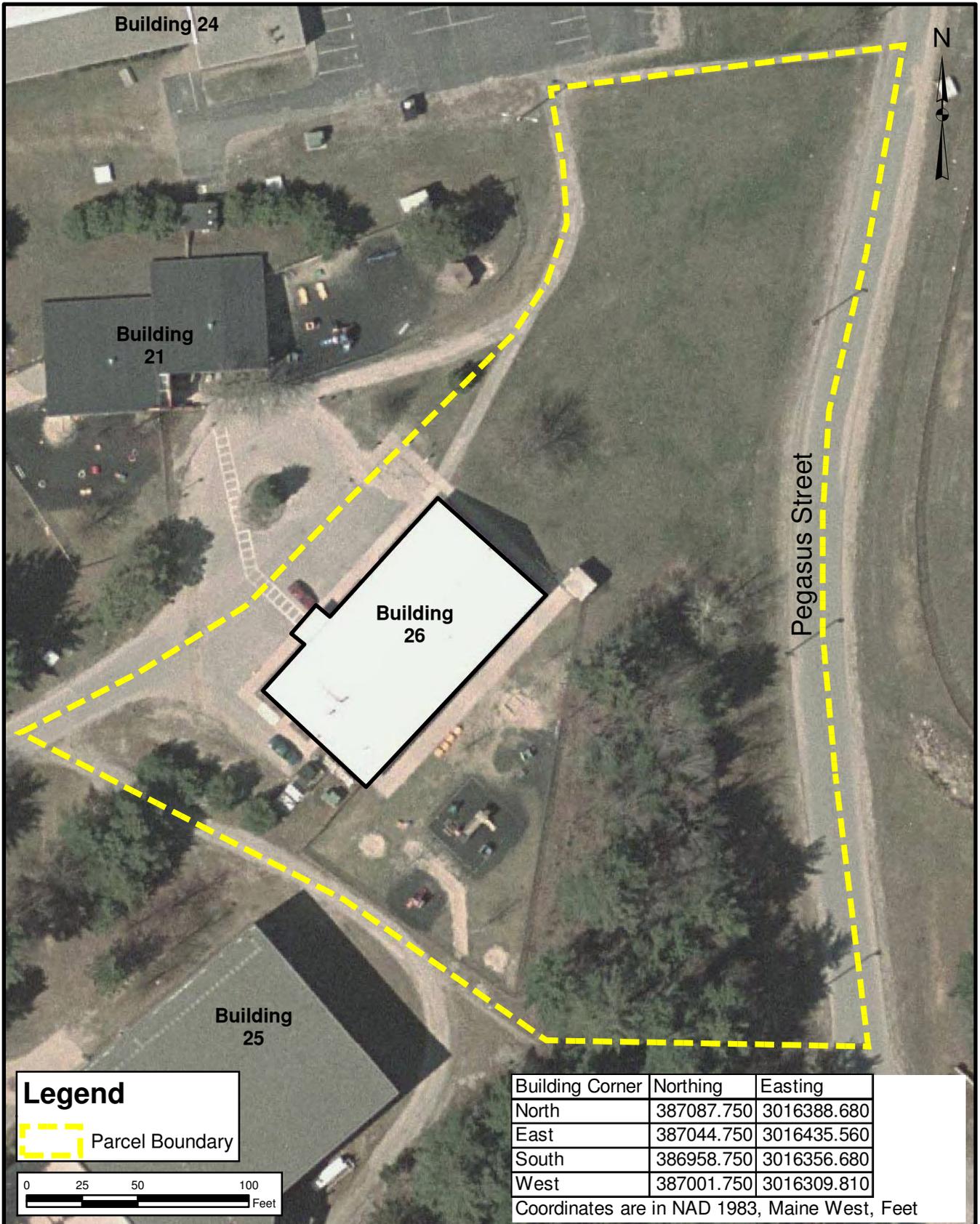
PWD. 2010. Transformer Database. NAS Brunswick, Maine. 2010.



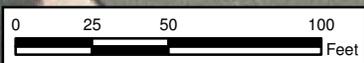
Tetra Tech NUS, Inc.

SITE LOCATION MAP  
 BUILDING 26 - CHILD CARE CENTER  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\02258\CP\DRIN\ASB_BLSG_26_LOCUS.MXD	
REV 0	DATE 04/28/10
FIGURE NUMBER 1	



**Legend**  
 Parcel Boundary



Building Corner	Northing	Easting
North	387087.750	3016388.680
East	387044.750	3016435.560
South	386958.750	3016356.680
West	387001.750	3016309.810

Coordinates are in NAD 1983, Maine West, Feet



**SITE PLAN**  
**BUILDING 26 - CHILD CARE CENTER**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAS BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE \\.\NASB_BLDG_26_ORTHO.MXD	
REV 0	DATE 05/06/10
FIGURE NUMBER 2	

**BUILDING INSPECTION FORM  
RCRA PARTIAL CLOSURE PROGRAM  
NAS BRUNSWICK  
BRUNSWICK, MAINE  
CTO WE22**

**Inspection Date:** 6/30/09 & 4/27/2010

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

**Weather:** Overcast 80s

**GENERAL BUILDING INFORMATION / USES**

Building Name: Child Care Center  
 Function: Child care center  
 Size: 6,496 SF  
 Year of Construction: 1990

Building 26 is located on 3rd Street south of Building 24 (PSD Building) and adjacent to Building 21 at NAS Brunswick. It was constructed in 1990 and served as a child care center for its entire history. Building 26 consists of a 6,496 square-foot, one story metal-sided building on a concrete slab foundation.

Building 26 was used as a child care center. Building 26 contains child classroom space, administrative and storage space, and kitchen and laundry facilities.

No hazardous waste was generated during the operations in Building 26, according to NASB personnel.

Building 26 was heated via natural gas boilers. It was previously heated via fuel-oil fired furnace.

**BUILDING INSPECTION / CONDITION**

No record of hazardous waste stored at Building 26.

The building was not occupied at the time of the site visit and appeared in good 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.

**HAZARDOUS WASTE STORED / GENERATED**

No hazardous waste was stored or generated at Building 26, according to NASB personnel.

**POTENTIAL PCB-CONTAINING TRANSFORMERS**

The NASB transformer database lists the following transformer associated with Building 21:

113 KVA Pad-Mounted - Cooper Serial No. 906007355 - Non-PCB containing (<2 ppm PCBs)

**APPLICABLE REPORTS / DOCUMENTS**

Available historical plans and aerial photos were reviewed for past property uses:

- 1943 plan - Building 30 (Dispensary) is present north of Building 26 parcel.
- 1946 plan - Same as 1943 plan
- 1952 plan - Same as 1946
- 1956 plan - Same as 1952 plan
- 1958 aerial - Building 26 parcel wooded area. Building 30 to the north, Building 211 to the west
- 1978 aerial - same as 1958 aerial, with baseball field to the south.
- 1983 plan - Unlabeled building located at current location of Building 21 parcel, no Building 26.
- 1984 aerial - Building 21 present in current location to the north of the Building 26 parcel.
- 1989 plan - same as 1983 plan.
- 1989 aerial - same as 1984 aerial
- 1993 aerial - Building 26 (Child Care Center) now present to the south of Building 21.
- 2006 plan - Building 26 identified at current location.

The following ASTs were present at Building 26 according to NASB records:

- A26.0 - 275 gallon DWSV containing #1 fuel oil for heating (Installed 1999, removed 2002)
- A26.1 - 275 gallon DWSV containing #1 fuel oil for heating (Installed 1999, removed 2002)

The following UST was present at Building 26 according to NASB records:

- 10045-483 - 550 gallon FRP containing #2 fuel oil (Installed 1990, removed 1999)

**HAZARDOUS WASTE STORAGE RECORDS**

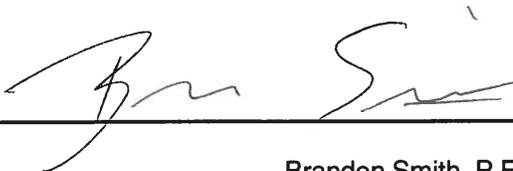
No hazardous waste was historically stored at Building 26, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

**MISCELLANEOUS NOTES**

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

(SEE ATTACHED BUILDING FLOOR PLAN AND PHOTOGRAPHS)

INSPECTOR SIGNATURE:



Brandon Smith, P.E.

**PHOTOGRAPHS**



No. 1 Building 26 – NAS Brunswick  
Building 26 – Child Care Center northeast elevation

April 27, 2010



No. 2 Building 26 – NAS Brunswick  
Building 26 – Child Care Center northwest elevation

April 27, 2010

**PHOTOGRAPHS**



No. 3 Building 26 – NAS Brunswick  
Building 26 – Child Care Center southwest elevation

April 27, 2010

**RCRA PARTIAL CLOSURE REPORT**  
for  
**BUILDING 253 – VR-62 TURNSTYLE ENTRY CONTROL POINT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**APRIL 2010**

## **1. INTRODUCTION**

The purpose of this report is to present the findings and conclusion 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 253 at Naval Air Station Brunswick (NAS Brunswick).

## **2. PROPERTY DESCRIPTION**

Building 253, known as the VR-62 turnstyle entry control point (ECP) is located south of Building 648 (AIMD APU shop) and north of Building 435 (VR-62 ECP guard house) on the airfield apron area along the airfield perimeter fence (Figure 1). This turnstyle ECP controlled pedestrian traffic access to and from the airfield. Constructed in 2006, Building 253 consists of a 240 square-foot, single-level, steel structure on a concrete slab foundation. Security flood lights are attached to the structure, and the building is heated by an electric heater. A site plan is attached (see Figure 2). Photographs of the facility 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 Building 253, including past use and operations at this location.

According to NAS Brunswick Environmental Department personnel, since its construction in 2006, the sole use of Building 253 has been as a turnstyle ECP. There is no record of hazardous waste generation or accumulation at Building 253.

Records reviewed include: historical aerial photographs; the NAS Brunswick environmental databases, including the Other Environmental Liabilities (OEL) Database, the transformer database, the underground storage tank (UST) database, and the above-ground storage tank (AST) database; area-specific reports; facility plans and drawings; and hazardous waste records. Aerial photographs dated 1958, 1978, 1984, and 1989 (all produced by James W. Sewall Company) were reviewed along with Public Works Department site base maps dated 1946, 1952, 1956, 1962, 1983, 1989, and 2006 to provide historical information.

The review of aerial photos and site base maps did not show any buildings or structures previously located at or near the current Building 253 position. The area is shown as a part of the apron area on all aerial photographs reviewed, with the airfield fence first visible in the 1989 aerial photograph.

According to the NAS Brunswick transformer database, no transformers are associated with Building 253 (PWD, 2010). No USTs or ASTs were associated with Building 253 (Environmental Department, 1996).

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

A Building 253 site visit was conducted by Mr. Brandon Smith, and P.E., Mr. James Forrelli, P.E., of Tetra Tech, on January 22, 2010 and April 28, 2010. The purpose of the visits 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 253 location 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 253 was vacant and in excellent condition.
- The interior consisted of a single room with telephone and electric services and an electronic turnstyle gate for airfield access.
- 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 and no structural modifications, which could conceal signs of a past release, were observed.
- No hazardous waste storage areas or hazardous waste accumulation areas were observed.
- No transformers that could be a potential source of PCB contamination in the event of a leak were observed.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 253 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, with the exception of universal waste, was conducted at Building 253.

**6. OTHER ENVIRONMENTAL CONSIDERATIONS**

No underground storage tanks or above ground storage tanks were observed in the immediate vicinity of Building 253.

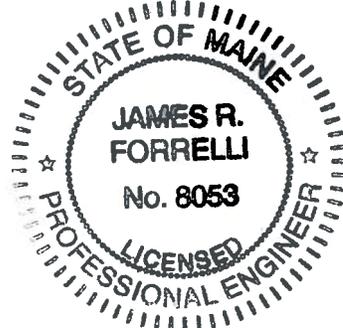
**7. LIMITATIONS**

This investigation of the hazardous waste closure requirement applies to the Building 253 footprint (as shown on Figure 2). It does not apply to the land surrounding or the groundwater underlying Building 253.

**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 253, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 253 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**

Environmental Department, 1996. Master/Historical Aboveground and Underground Storage Tank Inventory. NAS Brunswick, Maine. February.

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

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

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

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

Public Works Department (PWD), 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30, 1946.

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

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

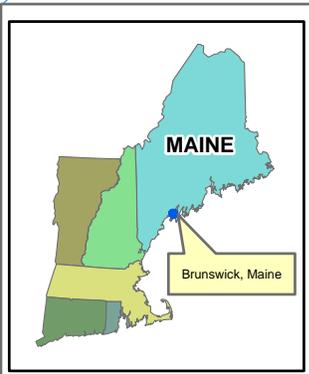
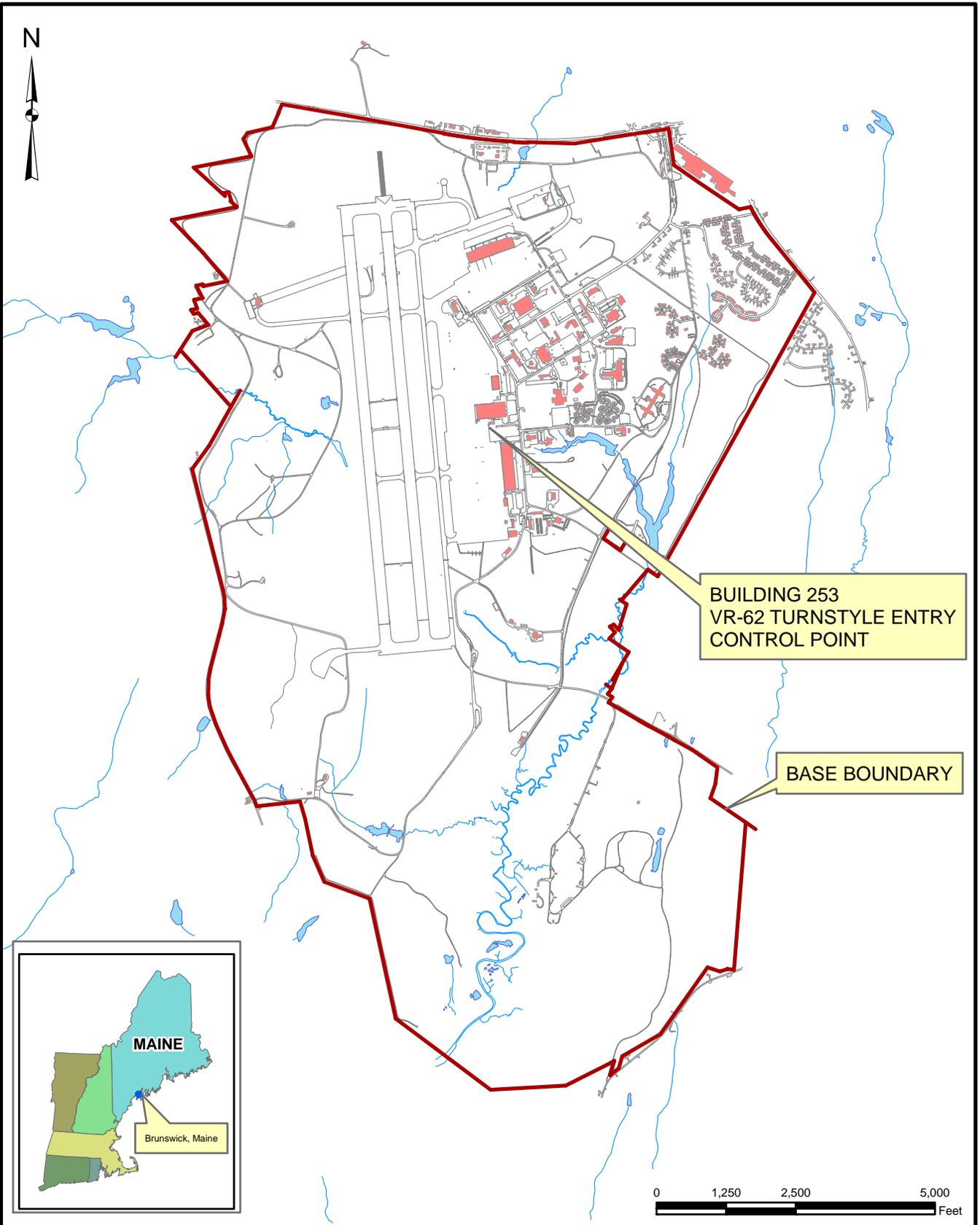
PWD, 1962. "Map of Streets," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. 1962.

PWD, 1983. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. May 5, 1983.

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

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

PWD. 2010. Transformer Database. NAS Brunswick, Maine. 2010.



Tetra Tech NUS, Inc.

**SITE LOCATION MAP**  
**BUILDING 253 - VR-62 TURNSTYLE ENTRY CONTROL POINT**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE	
I:\NASE_BLDG_253_LOCUS.MXD	
REV	DATE
0	04/27/10
FIGURE NUMBER	
1	



GRAPHIC SCALE



Building Corner	Northing	Easting
Northeast	386146.093	3014668.997
Southeast	386136.129	3014669.849
Southwest	386134.256	3014647.929
Northwest	386144.220	3014647.077

Coordinates are in NAD 1983, Maine West, Feet



TETRA TECH NUS, INC.

SITE LOCATION MAP  
 BUILDING 253 - VR-62 TURNSTYLE ENTRY CONTROL POINT  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE  
 AS NOTED

FILE  
 \.. \NASB\_BLDG\_253\_ORTHO.DWG

REV DATE  
 0 04/27/10

FIGURE NUMBER  
 FIGURE NO. 2

**BUILDING INSPECTION FORM  
RCRA PARTIAL CLOSURE PROGRAM  
NAS BRUNSWICK  
BRUNSWICK, MAINE  
CTO WE22**

**Inspection Date:** 1/22/2010 & 4/28/2010  
**Personnel:** James Forrelli, P.E. / Brandon Smith, P.E.  
**Weather:** Clear, 20s

<b>GENERAL BUILDING INFORMATION / USES</b>	
Building Name:	VR-62 Turnstyle ECP
Function:	Entry Control Point to the airfield
Size:	240 SF
Year of Construction:	2006
<p>Building 253 is located south of Hangar 4 adjacent to Building 648 at NAS Brunswick. It was constructed in 2006 and served as an entry control point for the airfield for its entire history. Building 253 consists of a 240 square-foot, one story structure on a concrete slab foundation.</p> <p>Building 253 was used as a guard shack. Building 253 contains a single room with telephone and electric service and an electronic turnstyle gate for airfield access.</p> <p>No hazardous waste was generated during the operations in Building 253, according to NASB personnel.</p> <p>Building 253 was heated via electric heat.</p>	
<b>BUILDING INSPECTION / CONDITION</b>	
<p>No record of hazardous waste stored at Building 253.</p> <p>The building was not occupied at the time of the site visit and appeared in excellent 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. No transformers that could be a potential source of polychlorinated biphenyls (PCBs) contamination in the event of a leak were observed.</p>	
<b>HAZARDOUS WASTE STORED / GENERATED</b>	
<p>No hazardous waste was stored or generated at Building 253, according to NASB personnel.</p>	
<b>POTENTIAL PCB-CONTAINING TRANSFORMERS</b>	
<p>No potential PCB-containing transformers were identified during the site inspection or review of the NASB transformer database.</p>	

**APPLICABLE REPORTS / DOCUMENTS**

Available historical plans and aerial photos were reviewed for past property uses:  
1946 plan - Hangar 4 and surrounding buildings not present.  
1952 plan - Same as 1946  
1956 plan - Hangar 4 shown, no other surrounding buildings.  
1958 aerial - Hangar 4 and parking area present, no fenceline around apron.  
1962 plan - Hangars 4 and 5 shown, no other surrounds buildings.  
1978 aerial - same as 1958 aerial.  
1983 plan - Hangar 4 and 5 present, and Building 648 is now present.  
1984 aerial - Hangar 4 and 5 present, and Building 648 is now present, no airfield fence present.  
1989 plan - same as 1983 plan.  
1989 aerial - same as 1984 aerial except airfield fence is visible.  
1993 aerial - same as 1989 aerial  
2006 plan - Building 435 is not identified on plan.

No ASTs or USTs were present at Building 253 according to NASB records.

**HAZARDOUS WASTE STORAGE RECORDS**

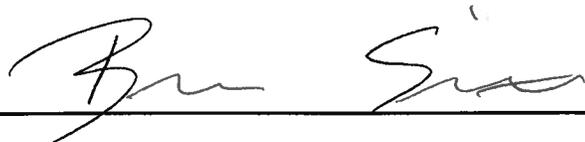
No hazardous waste was historically stored at Building 253, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

**MISCELLANEOUS NOTES**

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

(SEE ATTACHED BUILDING FLOOR PLAN AND PHOTOGRAPHS)

INSPECTOR SIGNATURE:



\_\_\_\_\_

Brandon Smith, P.E.

**PHOTOGRAPHS**



No. 1 Building 253 – NAS Brunswick  
Building 253 – Southeastern elevation

January 22, 2010



No. 2 Building 253 – NAS Brunswick  
Building 253 – Interior turnstyle entry control point

January 22, 2010