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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDINGS 36 AND 46 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
11/8/2010
NAS BRUNSWICK

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

November 8, 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

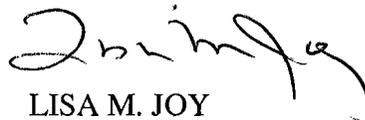
Subj: Final RCRA Partial Closure Report for Buildings 36 and 46

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Buildings 36 and 46 at Naval Air Station Brunswick is provided as Enclosure (1).

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

Sincerely,



LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Buildings 36 and 46

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
DYERS GATE SECURITY BUILDINGS AREA
BUILDING 36 – DYERS GATE SENTRY HOUSE
BUILDING 46 – DYERS GATE SECURITY INSPECTION OFFICE
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
NOVEMBER 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 Dyers Gate Security Buildings Area at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

The Dyers Gate Security Buildings Area is located in the south-central portion of NAS Brunswick (Figure 1) at the south gate of the base (Dyer's Gate). The approximately 2.2-acre parcel is bordered to the north and east by the Weapons/Administration Area and to the west by the Runways Area and south by the Weapons/Magazine Area (Figure 2). The Dyers Gate Security Buildings Area contains Buildings 36 (Dyers Gate Sentry House), 46 (Dyers Gate Security Inspection Office), and 475 (Dyers Gate Inspection Tent Inspection Tent), along with associated paved parking and grass-covered areas, and a portion of Orion Street. Security fencing runs along the areas eastern and southern boundaries.

Building 475 has been addressed separately under the NAS Brunswick RCRA closure program in "RCRA Partial Closure Report for Building 475, Dyers Gate AVI Inspection Tent" (Tetra Tech, October 2010).

The general location and physical description of Buildings 36 and 46 are summarized below. Photographs of the buildings are provided as an attachment to this report.

Building 36 – Dyers Gate Sentry House

Building 36 is located on Orion Street in the northern portion of the area and north of Buildings 475 and 46 (Figure 2). Building 36 was constructed in 2004 and consists of a 200-square-foot, single-story, steel-framed structure on a concrete slab foundation. A steel awning covers the roadway and building structure. The building interior consists of a sentry area, restroom facility, and electrical/storage area. The building has an electrical heating system.

Building 46 – Dyers Gate Security Inspection Office

Building 46 is located in the central portion of the area, north of Building 475 (Figure 2). The building was constructed in 2004 and consists of a 300-square-foot, single-story, steel-framed structure on a concrete slab foundation. The building interior consists of a sentry area, restroom facility, and electrical/storage area. Building 46 has an electrical heating system.

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 Dyers Gate Security Buildings 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 1958, 1978, 1981, 1984, 1989, 1993 and 1997 (Sewall, 1958, 1978, 1981, 1984, 1989, 1993 and 1997) were reviewed along with Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1957, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1957, 1975, 1989, and 2006) to provide historical information.

On historical site plans dated prior to 1956, the area is not shown. Beginning with the aerial photograph dated 1958, the area of Dyers Gate is shown as cleared land, with New Gurnet Road and Orion Street present. The 2006 base map is the earliest to show buildings in the area.

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of the Dyers Gate Security Buildings Area.

Non-potable water is supplied to Buildings 36 and 46 by a water supply well known as DGPW (Dyer's Gate Public Well), located northwest of Building 36 on the west side of Orion Street. Sanitary wastewater from Buildings 36 and 46 is disposed of by a septic system.

Building 36

According to NAS Brunswick Environmental Department personnel, since its construction in 2004, Building 36 has been used exclusively as a security sentry house to control vehicular traffic entering the base; there is no record of hazardous waste generation at Building 36.

The NAS Brunswick Transformer Database lists no transformers associated with Building 36.

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 36 indicate that one AST has been associated with the building (Environmental Department, 2009). A pad-mounted emergency generator is located west of Building 475 (to the south), as discussed below. The generator contains a 100-gallon double-walled steel AST (A36.0) containing diesel fuel for the generator. It was installed in 2004 and is inactive.

Building 46

According to NAS Brunswick Environmental Department personnel, since its construction in 2004, Building 46 has been used exclusively as a security inspection office to support vehicle inspections at nearby Building 475; there is no record of hazardous waste generation at Building 46.

The NAS Brunswick Transformer Database lists no transformers associated with Building 46. One pad-mounted transformer is located south of Building 46, southwest of Building 475. No additional information was available on the transformer. As of July 1, 1979, the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB-containing electrical equipment (transformers and capacitors). Since the buildings and structures present within the Dyers Gate Security Buildings Area were built in 2004, it is unlikely that the transformer is PCB-containing.

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 46 indicate that no tanks have been associated with the building (Environmental Department, 2009).

Groundwater Information

Groundwater sampling results for the non-potable water supply well, DGPW, located northwest of Building 36, provide groundwater quality information for the area of the Dyers Gate Security

Buildings. Due to the proximity of the well to the Runways Area, it may be influenced by groundwater underlying that area. The Navy tested groundwater from this well for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), pesticides, and total and dissolved metals. All results were below State of Maine residential drinking water criteria (ATSDR, 2005). In addition, Tetra Tech sampled the well in 2006 and 2007, and samples were analyzed for VOCs, pesticides, PCBs, and metals. The concentrations of detected VOCs and metals compounds were all below State residential drinking water criteria.

4. SITE VISIT AND INVESTIGATION

A site visit was conducted for Buildings 36 and 46 on October 20, 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 buildings were visually inspected for signs of hazardous waste generation or storage. Site visit observations, recorded on the attached Building Inspection Form ⁽¹⁾, are summarized below:

Building 36

- At the time of inspection, Building 36 was vacant and in excellent condition.
- No evidence of current or past hazardous waste generation activities 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 peeling or flaking paint was observed on the exterior or interior steel door of the building.

Building 46

- At the time of inspection, Building 46 was vacant and in excellent condition.
- No evidence of current or past hazardous waste generation activities 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 peeling or flaking paint was observed on the exterior or interior steel door of the building.

The septic system serving the buildings was not located during the site visit.

Based on the available information regarding historical activities at the Dyers Gate Security Buildings Area, there is no evidence that groundwater underlying the Area has been adversely impacted by a release from within the area.

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

5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, and NAS Brunswick Environmental Department personnel interviews, no hazardous waste generation, hazardous waste

accumulation, or hazardous waste storage was conducted at the Dyers Gate Security Buildings Area.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

As discussed in Section 3, USTs, or ASTs are known to be associated with Buildings 36 or 46. No tanks were observed in the immediate vicinity of Buildings 36 or 46.

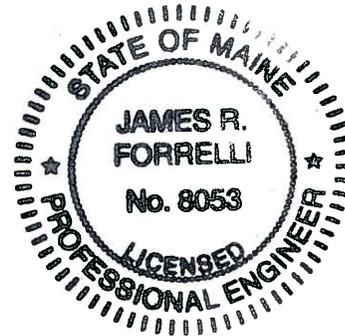
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Dyers Gate Security Buildings 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 Dyers Gate Security Buildings Area, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Dyers Gate Security Buildings Area 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.



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

REFERENCES

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

NAS Brunswick Environmental Department. NAS Brunswick Transformer Database.

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

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

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

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

PWD, 1975. General Development, Existing and Planned, Operations Area, US Naval Air Station, Brunswick, Maine.

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

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

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

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

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

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

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

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

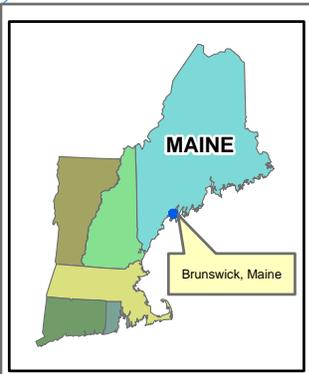
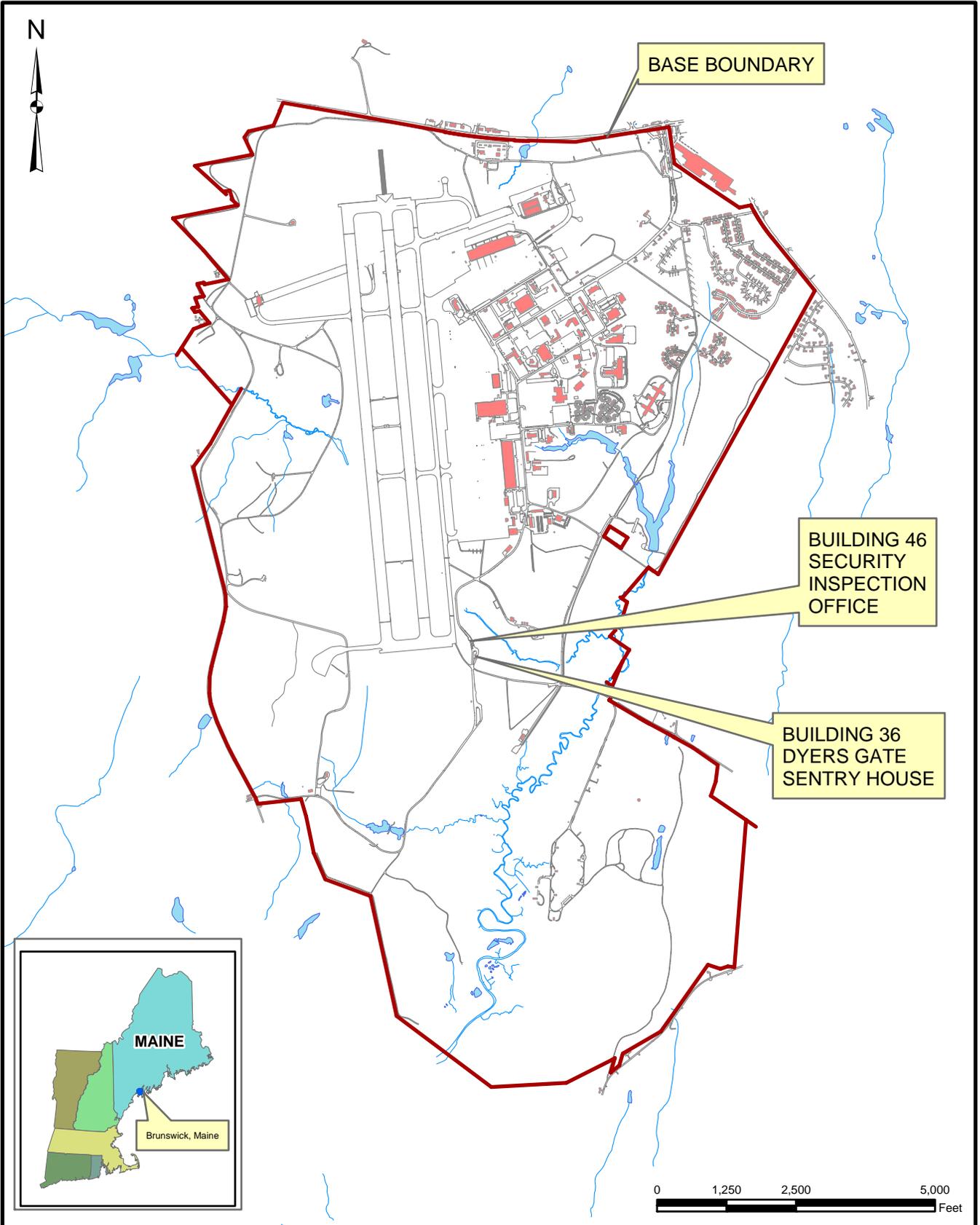
Sewall, 1984. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 23.

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

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

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

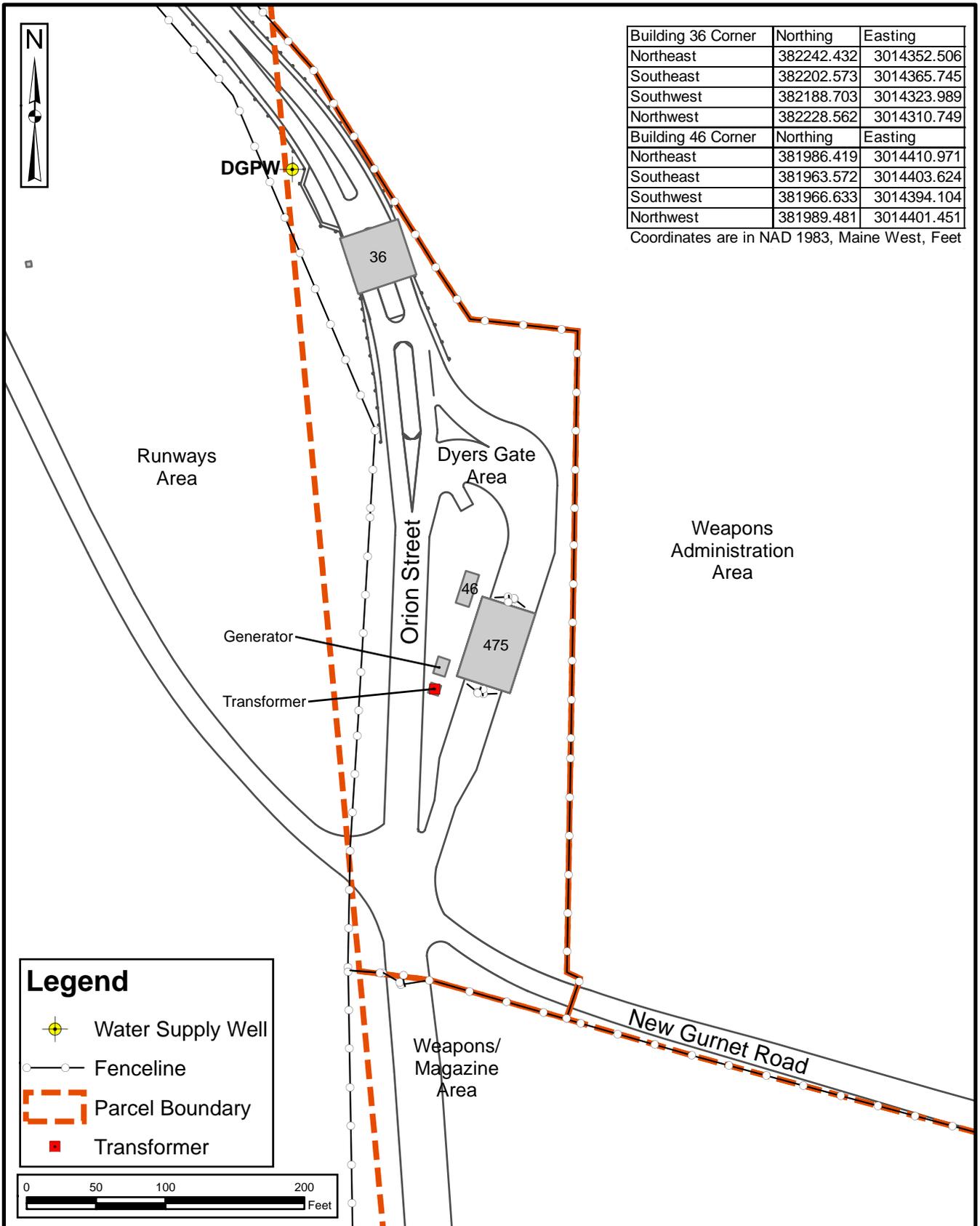
Tetra Tech NUS (Tetra Tech), 2010. RCRA Partial Closure Report for Building 475 – Dyers Gate AVI Inspection Tent, Naval Air Station Brunswick, Maine. Tetra Tech NUS, Inc, King of Prussia, Pennsylvania. October.



Tetra Tech NUS, Inc.

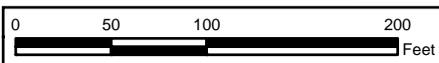
SITE LOCATION MAP
BUILDING 36 - DYERS GATE SENTRY HOUSE
BUILDING 46 - SECURITY INSPECTION OFFICE
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE	
I:_WASB_BLDG_36&46_LOCUS.MXD	
REV	DATE
0	11/05/10
FIGURE NUMBER	
1	



Legend

- Water Supply Well
- Fenceline
- Parcel Boundary
- Transformer



Tetra Tech NUS, Inc.

SITE PLAN
 BUILDING 36 - DYERS GATE SENTRY HOUSE
 BUILDING 46 - SECURITY INSPECTION OFFICE
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE L:\NASB_BLDG_36&46_SITE_MAP.MXD	
REV 0	DATE 11/05/10
FIGURE NUMBER FIGURE NO. 2	

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

Inspection Date: 10/20/2010
Personnel: James Forrelli, P.E. / Brandon Smith, P.E.
Weather: Clear, 50s

GENERAL BUILDING INFORMATION / USES	
Building Name:	Dyers Gate Sentry House
Function:	Security sentry house
Size:	200 SF
Year of Construction:	2004
<p>Building 36 is located in the southern portion of NAS Brunswick at the Dyers Gate security area, south of Building 104 (Dyers Gate Mechanical Security Barriers), north of Building 46 (Dyers Gate Security Inspection Office), east of the Runways Parcel and west of a wooded area. It was constructed in 2004 and served as the Dyers sentry house for it's entire history. Building 36 consists of a 200 square-foot, single story, steel-framed structure with on a concrete slab foundation with a steel awning covering the roadways and building structure. Building 36 was used to as a security sentry house for NASB. The building interior consists of a sentry area, restroom facility, and electrical/storage room. Potable water is provided by drinking water well DGPW to the north.</p> <p>A pad-mounted emergency generator is located west of Building 475, to the south of Building 36.</p> <p>No hazardous waste was generated during the operations in Building 36, according to NASB personnel.</p> <p>Building 36 is heated via electric heat.</p>	
BUILDING INSPECTION / CONDITION	
<p>No record of hazardous waste stored at Building 36.</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.</p>	
HAZARDOUS WASTE STORED / GENERATED	
<p>No hazardous waste was stored or generated at Building 36, according to NASB personnel.</p>	
POTENTIAL PCB-CONTAINING TRANSFORMERS	
<p>No transformers are listed in the NASB transformer database for the Dyers Gate area. One pad-mounted transformer is located to the west of Building 475. No additional information was available on the transformer, however, no buildings or transformers were present prior to 1979.</p>	

APPLICABLE REPORTS / DOCUMENTS

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

1943 plan - Area not shown.

1946 plan - Area not shown.

1952 plan - Area not shown.

1956 plan - No buildings shown in Dyers Gate area.

1957 plan - same as 1956 plan.

1958 aerial - No buildings present. Cleared land with New Gurnet Road and Orion Street present.

1975 plan - Area not shown.

1978 plan - No buildings shown in Dyers Gate area.

1978 aerial - Area is now wooded. No buildings present.

1981 aerial - Same as 1978 aerial.

1983 plan - Area not shown.

1984 aerial - Same as 1981 aerial.

1989 plan - No buildings shown in Dyers Gate area.

1989 aerial - same as 1984 aerial

1993 aerial - Same as 1989 aerial

1997 aerial - Same as 1993 aerial.

2006 plan - Building 36 shown in its current location

No OWS were present at Building 36 according to NASB records. A septic tank serviced Buildings 36 and 46.

No USTs or ASTs were present at Building 36 according to NASB records.

The generator west of building 475 is associated with Building 36 and contains a 100 gallon DWS AST (A36.0) containing diesel for the generator (installed in 2004, inactive)

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 36, 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 PHOTOGRAPHS)

INSPECTOR SIGNATURE: _____

Brandon Smith, P.E.

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

Inspection Date: 10/20/2010
Personnel: James Forrelli, P.E. / Brandon Smith, P.E.
Weather: Clear, 50s

GENERAL BUILDING INFORMATION / USES	
Building Name:	Dyers Gate Security Inspection Office
Function:	Security support building
Size:	300 SF
Year of Construction:	2004
<p>Building 46 is located in the southern portion of NAS Brunswick at the Dyers Gate security area, south of Building 36 (Dyers Gate Sentry House), north of Building 475 (Dyers Gate AVI Inspection Tent), east of the Runways Parcel and west of a wooded area. It was constructed in 2004 and served as the Dyers security inspection office for its entire history. Building 46 consists of a 300 square-foot, single story, steel-framed structure on a concrete slab foundation.</p> <p>Building 46 was used to as a security inspection office for NASB. The building interior consists of a sentry area, restroom facility, and electrical/storage room. Potable water is provided by drinking water well DGPW to the north.</p> <p>A pad-mounted emergency generator is located west of Building 475, to the south of Building 46.</p> <p>No hazardous waste was generated during the operations in Building 46, according to NASB personnel. Building 46 is heated via electric heat.</p>	
BUILDING INSPECTION / CONDITION	
<p>No record of hazardous waste stored at Building 46.</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.</p>	
HAZARDOUS WASTE STORED / GENERATED	
<p>No hazardous waste was stored or generated at Building 46, according to NASB personnel.</p>	
POTENTIAL PCB-CONTAINING TRANSFORMERS	
<p>No transformers are listed in the NASB transformer database for the Dyers Gate area. One pad-mounted transformer is located to the west of Building 475 and south of Building 46. No additional information was available on the transformer, however, no buildings or transformers were present prior to 1979.</p>	

APPLICABLE REPORTS / DOCUMENTS

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1997 aerial - Same as 1993 aerial.

2006 plan - Building 46 shown in its current location

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No USTs or ASTs were present at Building 46 according to NASB records.

The generator west of building 475 is associated with Building 36 and contains a 100 gallon DWS AST (A36.0) containing diesel for the generator (installed in 2004, inactive)

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 46, 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 PHOTOGRAPHS)

INSPECTOR SIGNATURE: _____

Brandon Smith, P.E.

PHOTOGRAPHS



No. 1 Buildings 36 and 46 – NAS Brunswick
Building 36 – Dyers Gate Sentry Building south elevation

October 20, 2010



No. 2 Buildings 36 and 46 – NAS Brunswick
Building 36 - Dyers Gate Sentry Building south elevation

October 20, 2010



No. 3 Buildings 36 and 46 – NAS Brunswick
Building 36 - Dyers Gate Sentry Building interior

October 20, 2010



No. 4 Buildings 36 and 46 – NAS Brunswick
Building 46 - Dyers Gate Security Inspection Office north elevation; Building 475 at left of frame and emergency generator and transformer in background

October 20, 2010



No. 5 Buildings 36 and 46 – NAS Brunswick
Building 46 - Dyers Gate Security Inspection Office interior

October 20, 2010



No. 6 Buildings 36 and 46 – NAS Brunswick
Transformer and emergency generator south of Building 46 - Dyers Gate Security Inspection Office; Building 475 at right of frame

October 20, 2010