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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 104 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

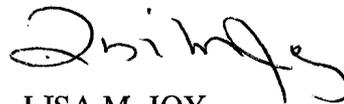
Subj: Final RCRA Partial Closure Report for Building 104

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 104 at Naval Air Station Brunswick is provided as Enclosure (1).

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

Sincerely,



LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 104

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

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 104 – DYERS GATE MECHANICAL SECURITY BARRIERS
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 Building 104 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 104 is in the south-central portion of NAS Brunswick (Figure 1). The building is located at the Dyers Gate security area on Orion Street, north of Building 36 (Dyers Gate Sentry House), east of the airfield security fence, and west of the Weapons Administration Area (Figure 2). Building 104, known as the Dyers Gate Mechanical Security Barriers, was constructed in 2004 and consists of an 80-square-foot, concrete pad which bisects the roadway and contains two recessed, subsurface metal barrier plates. When deployed by security personnel, the barrier plates were rapidly raised preventing unauthorized vehicles from either entering or exiting the control point. A charged accumulator in standby mode provided the energy required to raise the barrier plates by hydraulic rams upon deployment.

Photographs of the building are provided as an attachment to this report. The investigation conducted under this report applies only to the building footprint of Building 104 (as shown on Figure 2). The Runways Area RCRA Partial Closure Report addresses the land surrounding and the groundwater underlying Building 104.

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 104, 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.

Beginning with the 1956 historical plan, the area of Building 104 is shown as a roadway, and no buildings are present. No changes are noted until the 2006 base map, which shows Building 104 in its current location.

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 104.

According to NAS Brunswick Environmental Department personnel, since its construction, Building 104 has been used exclusively as the Dyers Gate Mechanical Security Barriers. There is no record of hazardous waste generation at Building 104.

The NAS Brunswick Transformer Database lists no transformers associated with Building 104. The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 104 indicate no tanks have been associated with the building (Environmental Department, 2009).

According to Mr. Bruce Weyman, NAS Brunswick Director of Engineering, the system has been drained of all fluids, including the hydraulic fluids, and is no longer operational.

4. SITE VISIT AND INVESTIGATION

A site visit was conducted for Building 104 on June 24, 2010 by Mr. James Forrelli, P.E., Mr. Mark Spear, P.E., and Mr. Brian Geringer of Tetra Tech. The purpose of the visit was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The building was visually inspected for signs of hazardous waste generation or storage. Site visit observations, recorded on the attached Building Inspection Form ⁽¹⁾, are summarized below:

- At the time of inspection, Building 104 was in good 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.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 104 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, with the exception of universal waste, no hazardous waste generation, hazardous waste accumulation, or hazardous waste storage was conducted at Building 104.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

As discussed in Section 3, no transformers, USTs, or ASTs are known to be associated with Building 104, and none were observed in the immediate vicinity of Building 104.

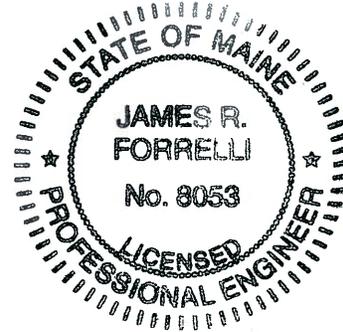
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the footprint of Building 104 (as shown on Figure 2), only. It does not apply to the land surrounding or the groundwater underlying Building 104 (addressed in the Runways Area RCRA Partial Closure Report).

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 104, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 104 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.

PWD (Public Works Department), 1943. "Building Site Plan Showing Location of Underground Water Distribution Lines and Hydrants," US 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.

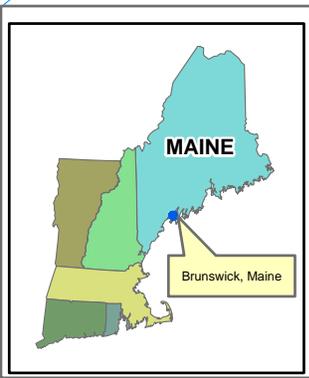
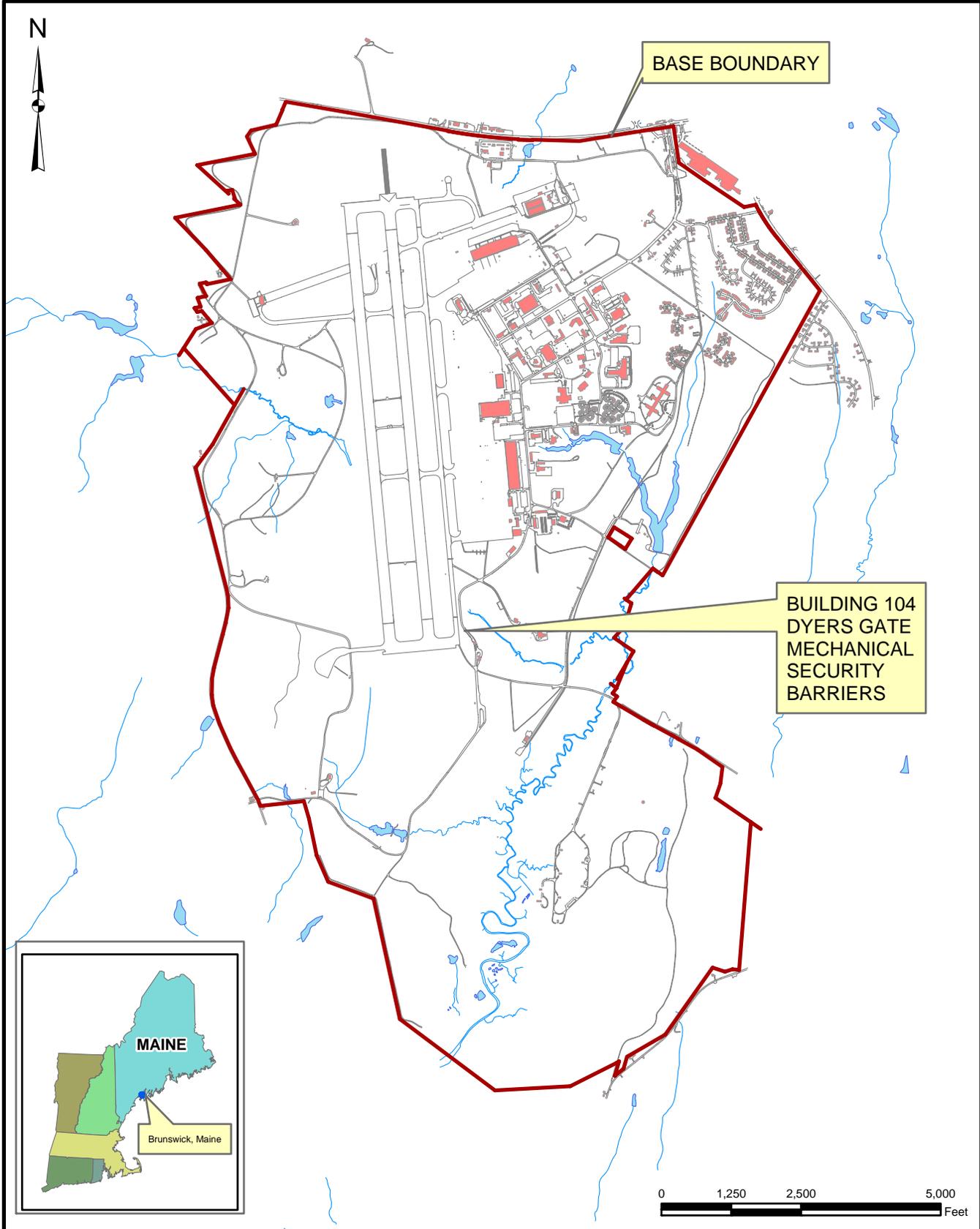
Sewall, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. May 27.

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

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

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

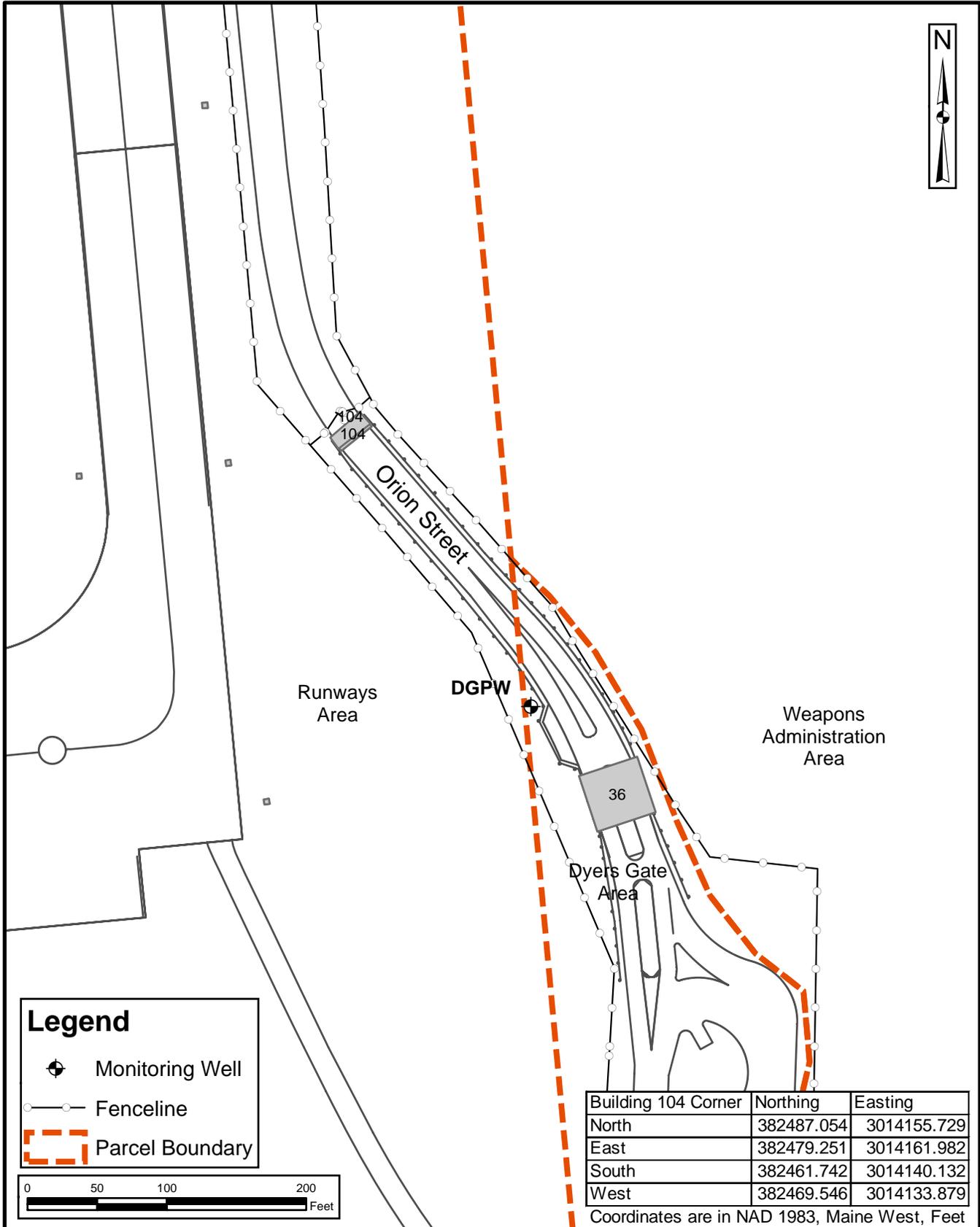
Sewall, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME.



Tetra Tech NUS, Inc.

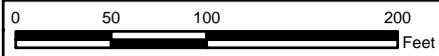
SITE LOCATION MAP
BUILDING 104 - DYERS GATE MECHANICAL SECURITY BARRIERS
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:_WASB_BLDG_104_LOCUS.MXD	
REV 0	DATE 11/04/10
FIGURE NUMBER 1	



Legend

- Monitoring Well
- Fenceline
- Parcel Boundary



Building 104 Corner	Northing	Easting
North	382487.054	3014155.729
East	382479.251	3014161.982
South	382461.742	3014140.132
West	382469.546	3014133.879

Coordinates are in NAD 1983, Maine West, Feet



Tetra Tech NUS, Inc.

SITE LOCATION MAP
BUILDING 104 - DYERS GATE MECHANICAL SECURITY BARRIERS
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE L:\NASB_BLDG_104_SITE_MAP.MXD	
REV 0	DATE 11/04/10
FIGURE NUMBER FIGURE NO. 2	

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

Inspection Date: 6/24/10

Personnel: Brian Geringer / James Forrelli, P.E. / Mark Speer, P.E.

Weather: Cloudy, Drizzle, 80

GENERAL BUILDING INFORMATION / USES

Building Name: Building 104 – Dyers Gate Mechanical Security Bar

Function: Security Bar

Size: 80 SF

Year of Construction: 2004

Building 104 is located at NAS Brunswick on Merriconeag Road, north of the Dyers gate guard shack, adjacent to the instillation fence. It was constructed in 2004 and served as a security gate for its entire history.

Building 104 consists of an 80 SF concrete pad bisecting the roadway containing two recessed metal bars. One control box is situated to the west of the security bar, which contains hydraulic fluid, mechanical and electrical controls. The interior of the control box was not accessible during the site visit. Two drywells were observed in the vicinity of the building. One drywell was observed to the east of the security bar with two discharge pipes observed. One discharge pipe originates in the second drywell located across Orion Street, north of the control box capturing storm water runoff from the roadway. The second discharge pipe originates within the security bar, capturing storm water that enters the openings in the concrete pad.

HWSA INSPECTION / CONDITION

No record of hazardous waste stored at Building 104.

At the time of inspection, Building 104 was 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.

POTENTIAL PCB-CONTAINING TRANSFORMERS

No transformer that could be a potential source of polychlorinated biphenyls (PCBs) contamination in the event of a leak was observed.

APPLICABLE REPORTS / DOCUMENTS

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

- 1943 map – Building 104 not shown.
- 1946 map – Same as 1943 map.
- 1952 map – Same as 1943 map.
- 1956 map – Roadway.
- 1957 map – Same as 1956 map.
- 1958 aerial – Roadway.
- 1975 map – Same as 1956 map.
- 1978 aerial – Same as 1958 aerial.
- 1978 map – Same as 1956 map.
- 1979 map – Building 104 is not shown.
- 1981 aerial – Same as 1958 aerial.
- 1983 map – Roadway.
- 1984 aerial – Same as 1958 aerial.
- 1989 map – Same as 1983 map.
- 1993 aerial – Same as 1958 aerial.
- 1997 aerial – Same as 1958 aerial.
- 2006 map – Building 104 present at current location.
- Current Google aerial – Building 104 present at current location.

There are no above ground storage tanks (ASTs) or oil-water separators (OWS) registered to Building 104.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 104 according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

MISCELLANEOUS NOTES

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

(SEE ATTACHED SITE SKETCH AND HWSA SKETCH)

(SEE ATTACHED PHOTOGRAPHS)

INSPECTOR SIGNATURE: 

PHOTOGRAPHS



No. 1 Building 104 – NAS Brunswick July 22, 2010
Dyers Gate Mechanical Security Barriers, view of hydraulic security gate from Orion Street looking north; barrier control box located left of guard rail



No. 2 Building 104 – NAS Brunswick July 22, 2010
Dyers Gate Mechanical Security Barriers, hydraulic security gate within Orion Street, looking northeast



No. 3 Building 104 – NAS Brunswick
Dyers Gate Mechanical Security Barriers, barrier control box

July 22, 2010