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NAS BRUNSWICK  
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR BUILDING 638 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME  
11/5/2010  
NAS BRUNSWICK

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

November 5, 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

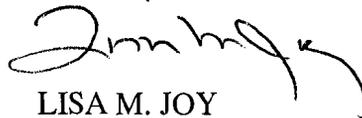
Subj: Final RCRA Partial Closure Report for Building 638

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 638 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 638

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 638 – SEWAGE PUMPING STATION**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**OCTOBER 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 638 at Naval Air Station Brunswick (NAS Brunswick).

## **2. PROPERTY DESCRIPTION**

Building 638 is located at the Brunswick Gardens housing area in the northeastern portion of NAS Brunswick (Figure 1). It is west of Intrepid Street, south of Alley C and Building 323 (Housing Maintenance), north of Building 888, and east of the Mariners Landing housing area.

Constructed in the 1980s, Building 638 consists of an in-ground sewage pump station and a small, aboveground shed housing an emergency generator and control equipment for the pump station. The one-room, un-heated shed has an area of 120-square feet and features wood-framed construction with vinyl siding and a shingle roof on a concrete-pad foundation. The building features a ventilation opening through the western wall. The pumps and wet well are contained in an in-ground reinforced concrete structure accessible by aluminum access hatch doors. The pump station collects sanitary wastewater flow from the Mariners Landing housing area and is part of the NAS Brunswick sanitary wastewater collection system, which discharges to the Brunswick Sewer District. Photographs of the building are provided as an attachment to this report.

The Navy Land/Private Housing Area RCRA Partial Closure Report addresses the land surrounding and the groundwater underlying Building 638.

## **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 638, 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 1946, 1952, 1956, 1957, 1975, 2004, and 2006 (PWD, 1946, 1952, 1956, 1957, 1975, 1989, and 2006) to provide historical information.

On historical site plans though 1956, the Brunswick Gardens housing area is not shown. Beginning with the 1956 base map, the Brunswick Gardens housing area is identified but no buildings are shown. Beginning with the 1984 aerial photographs, Buildings 638 and 323 are shown in their current locations. No further changes were noted to the Building 638 location after 1984. Building 638 is not identified on any of the historical maps.

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 638.

According to NAS Brunswick Environmental Department personnel, since its construction, Building 638 has been used exclusively as a sewage pumping station; there is no record of hazardous waste generation at Building 638. As discussed previously, Building 638 is visible in aerial photographs beginning in 1984.

The NAS Brunswick Transformer Database lists no transformers associated with Building 638. According to NAS Brunswick Environmental Department personnel, electric service to the Brunswick Gardens housing area is provided by Central Maine Power and any transformers supplying power to the pump station are owned and maintained by Central Maine Power.

The NAS Brunswick underground storage tank (UST) inventory records for Building 638 indicate no USTs have been present. The NAS Brunswick above ground storage tank (AST) inventory records indicate that a 275-gallon single-walled steel AST (A638.0) containing diesel for the generator was installed at an unknown date and removed in 1996 (Environmental Department, 2009). The current generator is a natural-gas powered unit.

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

A site visit was conducted for Buildings 638 on September 16, 2010 by Mr. Brandon Smith, P.E. and Mr. Mark Spear, 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:

- Building 638 contained a natural gas-powered generator and landscaping tools and was in good condition. The in-ground pump station was operational.
- The in-ground pump station access doors were locked.
- No solvent or petroleum odors were noted.
- No evidence of current or past hazardous waste generation was observed.
- No evidence of hazardous waste residues was observed.
- 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 peeling or flaking paint was observed on the building exterior or interior.
- A transformer is located just northeast of Building 638. A label on the transformer indicates that the unit is owned by Central Maine Power. The transformer nameplate identifies it as a 25-kVA transformer manufactured by Howard Industries with serial number 2516302403 and containing less than 1 part per million (ppm) of polychlorinated biphenyl (PCB).

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 638 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 occurred at Building 638.

## 6. OTHER ENVIRONMENTAL CONSIDERATIONS

Transformers, USTs, and ASTs known to be associated with Building 638 are discussed in Section 3. No other tanks were observed in the immediate vicinity of Building 638.

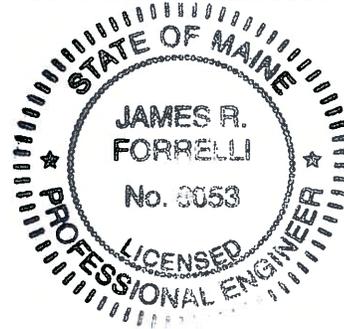
## 7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the footprint of Building 638 (as shown on Figure 2), only. It does not apply to the land surrounding or the groundwater underlying Building 638.

## 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 638, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 638 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.

Public Works Department (PWD), 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, 1957. "Map of US Naval Air Station, 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. 2010. Transformer Database. NAS Brunswick, Maine.

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

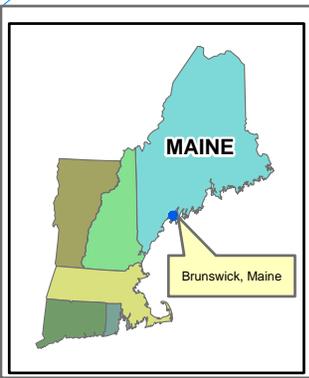
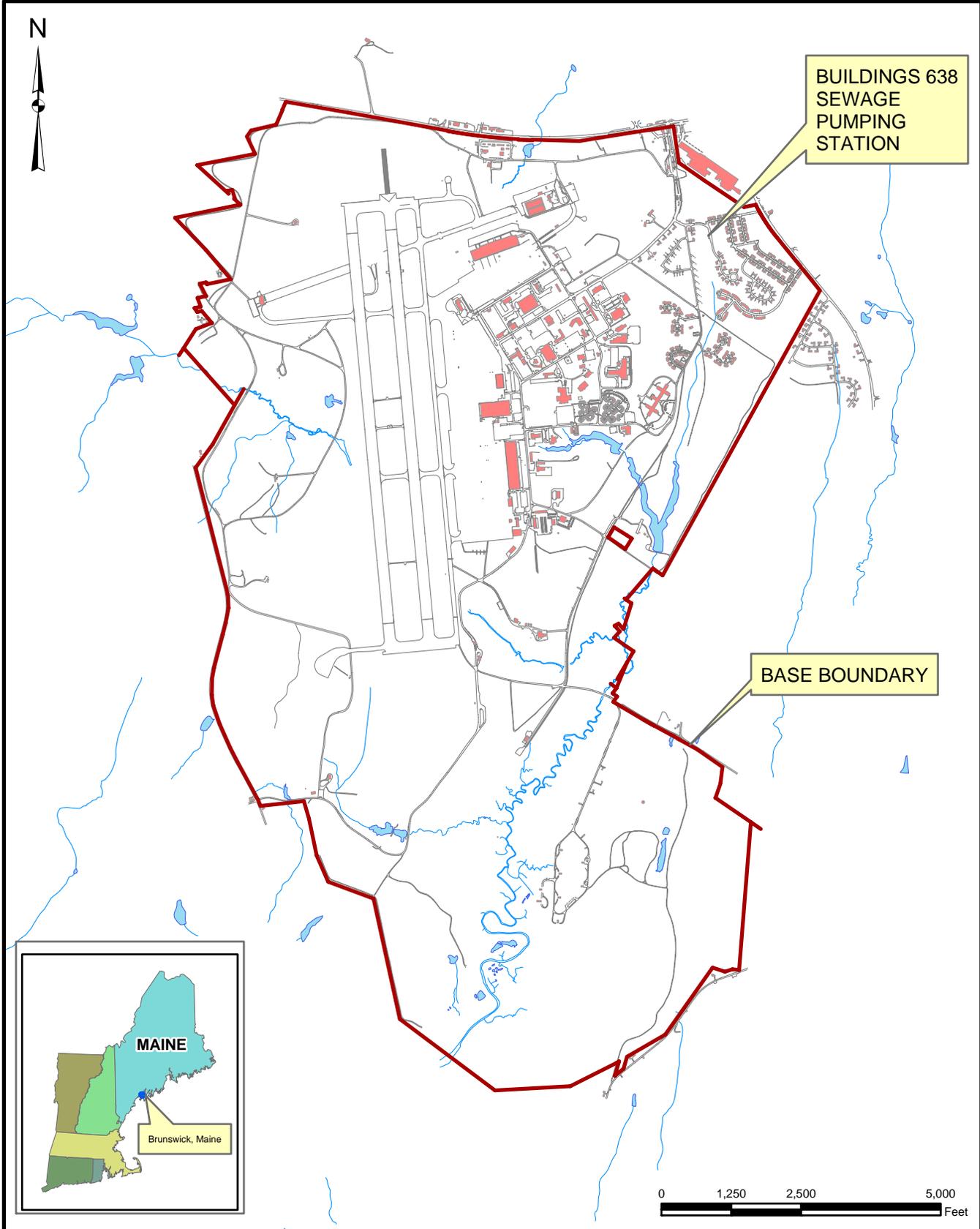
Sewall, 1978. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 22.

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.



Tetra Tech NUS, Inc.

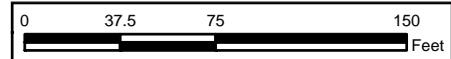
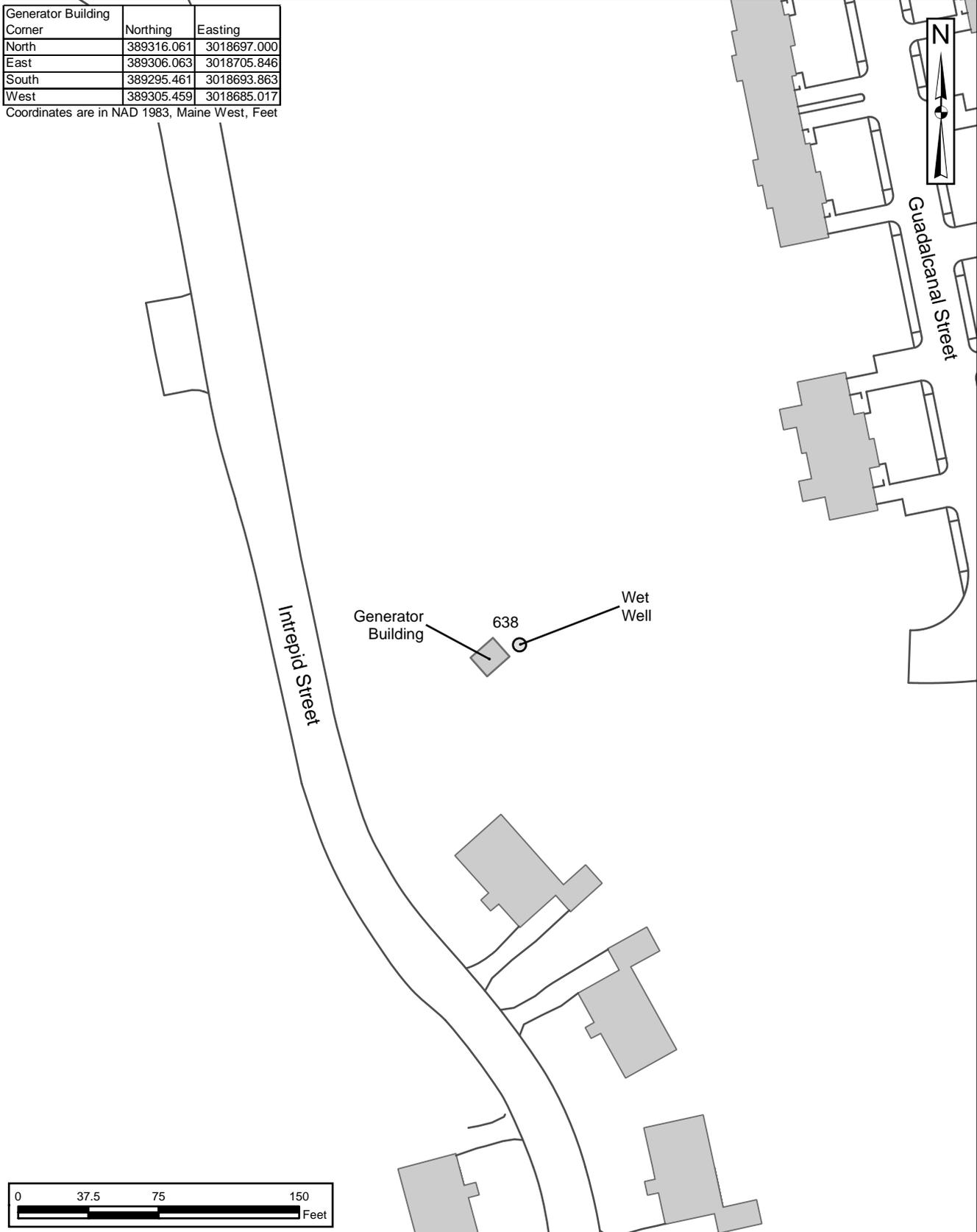
**SITE LOCATION MAP**  
**BUILDINGS 638 - SEWAGE PUMPING STATION**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE I:\NWSB_BLDG_638_LOCUS.MXD	
REV 0	DATE 10/19/10
FIGURE NUMBER 1	

I:\02258\CP\DR\NASB\_BLDG\_638\_SITE\_MAP.MXD DWM 10/19/10

Generator Building Corner	Northing	Easting
North	389316.061	3018697.000
East	389306.063	3018705.846
South	389295.461	3018693.863
West	389305.459	3018685.017

Coordinates are in NAD 1983, Maine West, Feet



Tetra Tech NUS, Inc.

**SITE PLAN**  
**BUILDING 638 - SEWAGE PUMPING STATION**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE L:\NASB_BLDG_638_SITE_MAP.MXD	
REV 0	DATE 10/19/10
FIGURE NUMBER 2	

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

**Inspection Date:** 9/16/2010

**Personnel:** Brandon Smith, P.E. / Mark Spear, P.E.

**Weather:** Clear, 70s

**GENERAL BUILDING INFORMATION / USES**

Building Name: Sewage Pumping Station  
 Function: Sewage Pumping Station  
 Size: 120 SF  
 Year of Construction: Unknown

Building 638 is located in the northeastern portion of NASB in the Brunswick Gardens housing area; west of Intrepid Street, south of Alley C, north of Building 888, and east of the Mariners Landing housing area. Its construction date is unknown and it served as a sewage pumping station for its entire history. Building 638 consists of a 120-square-foot, single-room, wood-frame building with vinyl siding and shingle roof on a concrete slab foundation.

Building 638 was used to house a generator for the sewage pumping station. The building interior consists of a single room with a natural gas-powered generator and contained some landscaping tools. A dry well with electric centrifugal pump is located to the east.

Building 638 is unheated.

**BUILDING INSPECTION / CONDITION**

No record of hazardous waste stored at Building 638.

At the time of the site visit, the building appeared in good condition. The building contained a natural gas-powered generator and landscaping tools.

No evidence of current or past hazardous waste generation activities was observed.

No evidence of hazardous waste residues was observed.

No evidence of staining or additions, 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 638, according to NASB personnel.

**POTENTIAL PCB-CONTAINING TRANSFORMERS**

No transformers are associated with Building 638 according to the transformer database.

A non-PCB containing transformer was observed northeast of Building 638. The nameplate indicates it is a: 25 kVa Howard Industries transformer (serial no. 2516302403) (<1ppm PCBs)

**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 - Same as 1946 plan.  
1956 plan - Intrepid Street shown with no buildings.  
1957 plan - Intrepid Street shown with Building 888 to the south and Building 323 to the north of Building 638 location.  
1958 aerial - Housing present, Building 638 not present  
1975 plan - Area not shown.  
1978 plan - Intrepid Street shown with no buildings.  
  
1978 aerial - No buildings visible on Building 638 location. Housing area present.  
1981 aerial - Same as 1978 aerial.  
1983 plan - No buildings shown on Building 638 location.  
1984 aerial - Building 323 and 638 shown in current location.  
1989 plan - Brunswick Gardens housing area shown with no buildings.  
1989 aerial - same as 1984 aerial  
1993 aerial - same as 1989 aerial  
1997 aerial - Same as 1993 aerial.  
2006 plan - Building 638 not shown.

No OWS were present at Building 638 according to NASB records.

No USTs were present at Building 638 according to NASB records.

According to NASB records, the following AST was present at Building 638:  
275 gallon SWS AST (A638.0) containing diesel for the generator (unknown date of installation, removed 1996).

**HAZARDOUS WASTE STORAGE RECORDS**

No hazardous waste was historically stored at Building 638, according to NAS Brunswick Hazardous Waste

**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 Building 638 – NAS Brunswick September 16, 2010  
Sewage Pumping Station generator building northwest elevation; in-ground pumping station at left of frame



No. 2 Building 638 – NAS Brunswick September 16, 2010  
Sewage Pumping Station east elevation



No. 3 Building 638 – NAS Brunswick  
Sewage Pumping Station wet well north elevation

September 16, 2010



No. 4 Building 638 – NAS Brunswick  
Sewage Pumping Station generator building interior

September 16, 2010