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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 632 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
10/12/2010
NAS BRUNSWICK

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

October 12, 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 632

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 632 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 632

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 632 – NMCB-27/TRAINER BUILDING PARCEL
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) Resource Conservation and Recovery Act (RCRA) or hazardous waste closure requirements have been completed for the Building 632 parcel at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

The Building 632 parcel is located in the northern portion of NAS Brunswick (Figure 1). The approximately 0.46-acre parcel is bordered to the north by Perimeter Road and the Naval Mobile Construction Battalion Twenty-Seven (NMCB-27) Compound, also known as the SeaBee Compound; to the east by vacant land; and to the south and west by tree-covered areas (Figure 2).

The parcel is comprised of Building 632, known as the Trainer Building, adjacent grass- and tree-covered areas, and an asphalt-paved driveway. The surface topography of the parcel is relatively flat; the land slopes gradually to the north, toward Perimeter Road. The difference in elevation between the northern portion of the parcel along Perimeter Road and the southern portion of the parcel along the forested area is approximately 1 foot.

Building 632, located in the central portion of the parcel, was constructed in 2006 and consists of a 3,200 square-foot, one-story structure on a concrete slab foundation. The building served as a training facility for the maintenance of construction equipment, and is comprised of office, classroom, and garage spaces. Various training seminars/workshops were conducted at the building for NMCB-27 reservist personnel. Building 632 is currently heated by a natural-gas-fired, ceiling-mounted heater located in the garage area. Photographs of the Building 632 exterior and interior are provided in an attachment.

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 632 parcel, including past use and operations at that location.

Records reviewed include historical aerial photographs, the NAS Brunswick Other Environmental Liabilities (OEL) Database, area-specific reports, facility plans, facility drawings, and hazardous waste records. Aerial photographs dated 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997 (Sewall, 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997) were reviewed. Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1975, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1975, 1989, and 2006) and site building lists for 1965, 1976, 2003, and 2008 were also reviewed.

According to NAS Brunswick Environmental Department personnel, Building 632 was used as a training facility since its initial construction. There is no record of hazardous waste generation or accumulation at Building 632.

A review of the historical records listed above indicates the following:

- The 1946 base map shows vacant land bordering the former “Runway No. 27 cleared-approach area” in the location of the current Building 632.
- The 1956 map indicates this same area as being within a fenced trailer park, which also encompasses the area now occupied by the Seabee Compound. The trailer park is also visible in the 1958 aerial photograph, but the area now occupied by Building 632 is vacant. The 1957/1958 map labels the former trailer park area as a Seabee Reserve Site, with no structure indicated at the Building 632 location.
- The 1975, 1978 and 1979 maps show that some of the buildings that are part of the SeaBee Compound have been constructed; the future Building 632 site is tree-covered land.
- On the 1983 map and in the 1984 aerial photograph, five structures, possibly office trailers, are located immediately east of the current Building 632 footprint. These structures are not present on the 1989 aerial photograph.
- In the aerial photographs dated 1984, 1989, 1993, and 1997, the future Building 632 site is tree-covered land.
- The earliest notation of Building 632 is its listing on the Building List dated 2003; however, the list indicates a construction date of 2006 for Building 632. The building is present on the 2006 map, and the Building 632 name and number are subsequently provided on the 2008 Building List.

No groundwater investigations have been conducted in the vicinity of the Building 632 parcel; therefore, groundwater characterization information for the parcel is not available. Information on known NAS Brunswick groundwater contamination areas was reviewed to determine if groundwater underlying the Building 632 parcel could potentially be impacted by another (off-parcel) source area. Site 8, located northeast of Building 632 and east of the former Seabee Compound, was a former disposal site for construction and demolition debris, from 1964 to 1974. Additionally, solvents including trichloroethylene (TCE), methyl ethyl ketone (MEK), and toluene were reportedly disposed at Site 8. In the Navy’s Final (Revision 2) Environmental Condition of Property Report (ECPR), dated May 30, 2006, localized groundwater flow at Site 8 was radial, flowing to the surrounding surface water bodies, including the Androscoggin River, located north of Site 8 (Navy, 2006). Based on information from the ECPR, it is unlikely that groundwater underlying the Building 632 parcel is impacted by the historic disposal activities at Site 8.

The NAS Brunswick transformer database does not list any transformers for the Building 632 parcel (PWD, 2009); however, during the site visit conducted as part of this investigation, a transformer was observed on the east side of the building, at the approximate eastern boundary of the parcel, as discussed below in Section 4.

The NAS Brunswick Master/Historical Aboveground and Underground Storage Tank Inventory lists no aboveground storage tanks (ASTs) or underground storage tanks (USTs) for Building 632 (Environmental Department, 2009).

The NAS Brunswick Revised Oil/Water Separator List indicates no oil/water separators for Building 632 (PWD, 2008b).

4. SITE VISIT AND INVESTIGATION

A site visit was conducted by Mr. Brian Geringer, Mr. Mark K. Speer, P.E., and Mr. James Forrelli, P.E., of Tetra Tech on August 12, 2010. The purpose of the visit was to verify information

gathered during the records search and to collect additional information as necessary to prepare this RCRA Partial Closure Report. The buildings' interior and exterior were observed during the site visit. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The Building 632 parcel was visually inspected for signs of hazardous waste generation or storage activity. Photographs taken during the site visit are provided in an attachment. Site visit observations, recorded on the attached Building Inspection Form⁽¹⁾, are summarized below:

- Building 632 was not occupied at the time of the site visit and appeared in good condition.
- No odors were detected in Building 632.
- No evidence of current or past hazardous waste generation was observed.
- No evidence of current or past hazardous materials use was observed.
- No evidence of hazardous waste residues was observed.
- No signs of a past release (staining, unusual odors, stressed vegetation, etc.) nor structural modifications that could conceal signs of a past release were observed.
- No hazardous waste storage was observed.
- One concrete-pad-mounted transformer was identified on the east side of Building 632. No evidence of a past leak from this transformer was observed.
- No paint-chip flaking was observed.

Labeling on the transformer indicates the unit was manufactured by Cooper Power Systems (serial number 0088YP06X89A). The first digits of the serial number indicate that it was manufactured in 1988; therefore, it is unlikely to contain polychlorinated-biphenyls (PCBs). As of July 1, 1979, the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB electrical equipment (transformers and capacitors). In addition, according to an electrical utility guide for identifying non-PCB transformers, all Cooper Power Systems transformers are non-PCB-containing (DTM, 2006). Furthermore, since the building wasn't constructed until 2006, it is unlikely that any PCB-containing transformers have been used at this location.

Based on the available information regarding historical activities at the Building 632 parcel, there is no evidence that groundwater underlying the parcel has been adversely impacted by a release from within the parcel.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling at the Building 632 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, with the exception of universal waste, no hazardous waste generation, accumulation, or storage activity was conducted at the Building 632 parcel.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No ASTs, USTs or oil/water separators have been utilized at the Building 632 parcel, according to NAS Brunswick records.

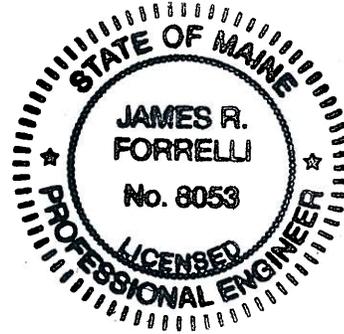
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 632 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 632 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 632 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.



⁽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

DTM (Distribution Transformer Manufacturers), 2006. "Distribution Transformer Manufacturers and Available Polychlorinated Biphenyl Information". Elizabethton Electric System, Updated January.

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

Navy (Department of the Navy, Base Realignment and Closure Program Management Office), 2006. "Final (Revision 2) Environmental Condition of Property Report for the Naval Air Station, Brunswick, Maine," NAS Brunswick, Maine. May 30.

PWD (Public Works Department), 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, 1965. "Index of Structures, Department of the Navy Bureau of Yards & Docks Department" US Naval Air Station Brunswick, Maine. Updated May 13.

PWD, 1975. "General Development, Existing and Planned, Operations Area," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. Updated December 2.

PWD, 1976. "Index of Structures, Naval Facilities Engineering Command, Northeast Division Drawing No. 747 256" Naval Air Station Brunswick, Maine. Updated September 21.

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

PWD, 2003. "NAS Brunswick, Facility List," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. March 9.

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

PWD, 2008a. "Draft NAS Brunswick, Facility List," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. March.

PWD, 2008b. Revised Oil/Water Separator List, Table J-C4(a). NAS Brunswick, Maine. January 1.

PWD, 2009. Master Transformer Database. NAS Brunswick, Maine. June 24.

Sewall (James W. Sewall Company), 1953. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. June 29.

Sewall, 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, ME. November 22.

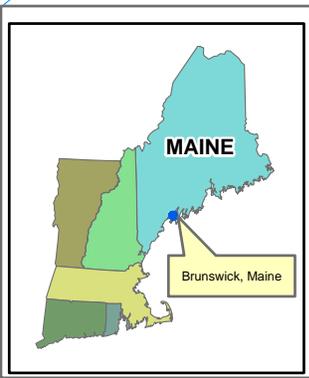
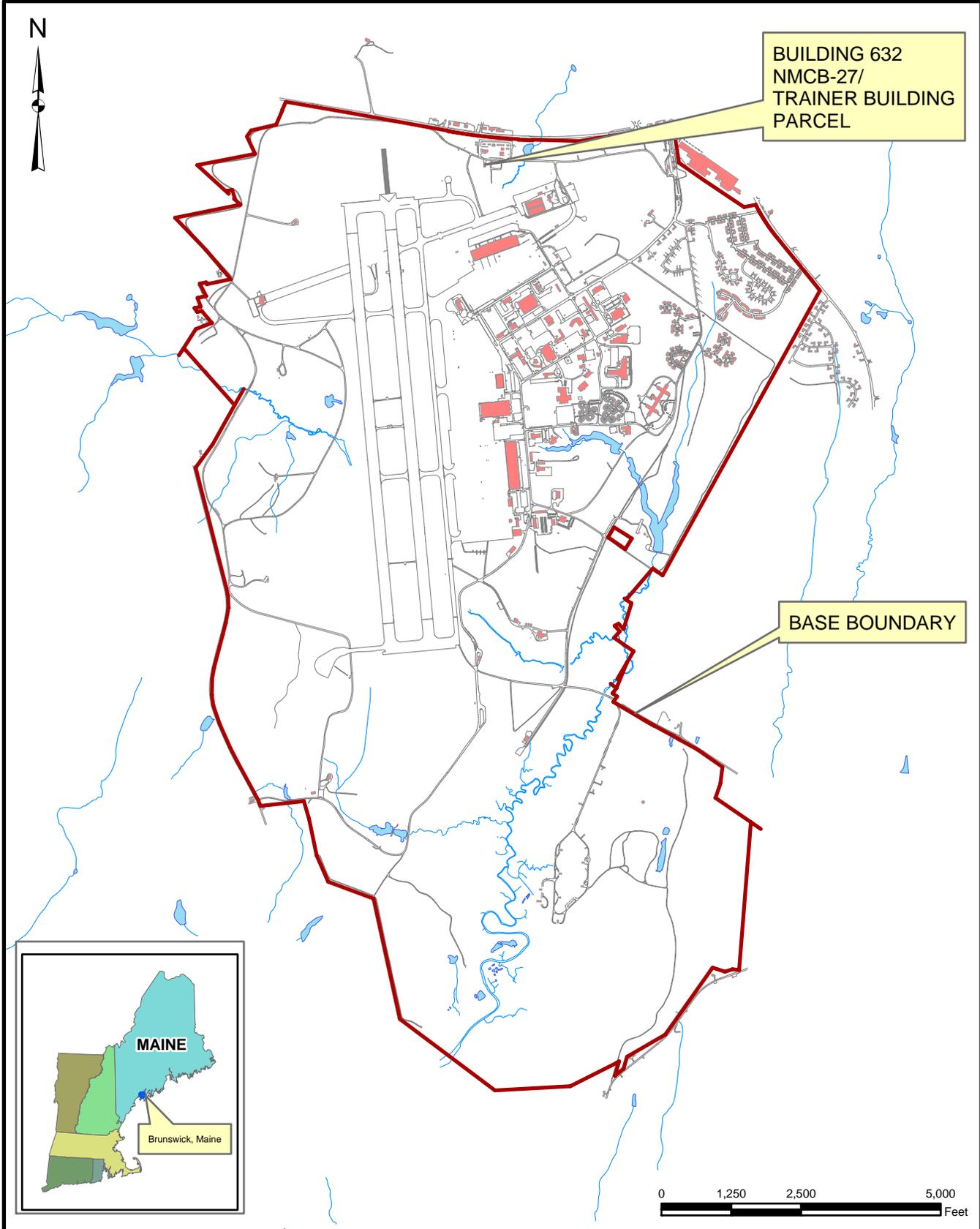
Sewall, 1981. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. October 17.

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. May 27.



Tetra Tech NUS, Inc.

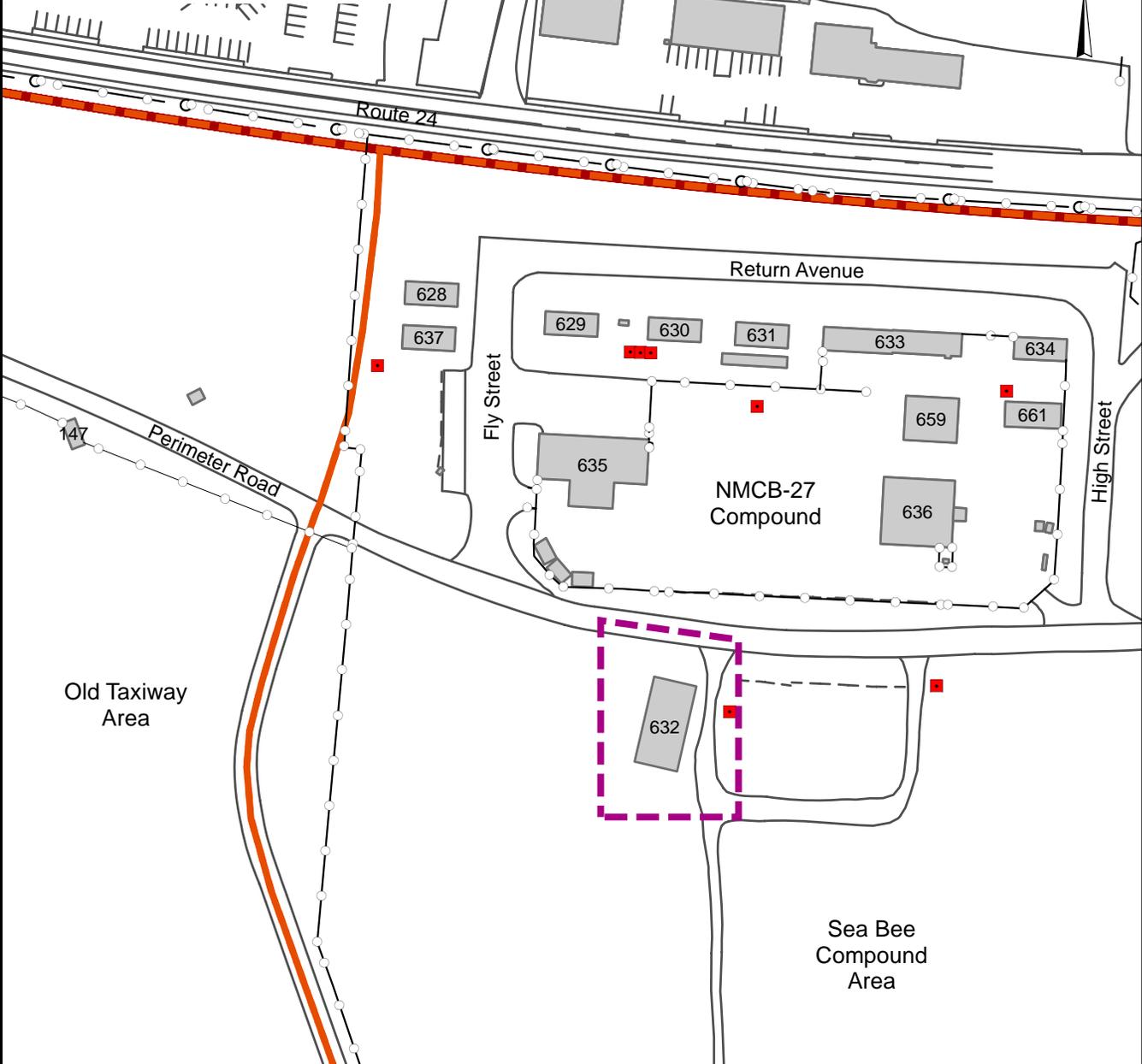
SITE LOCATION MAP
BUILDING 632 - NMCB-27/TRAINER BUILDING PARCEL
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE	
I:_NASB_BLDG_632_LOCUS.MXD	
REV	DATE
0	10/01/10
FIGURE NUMBER	
1	

I:\02258\CP_DR\NASE_BLDG_632_MAP.MXD DWM 10/01/10

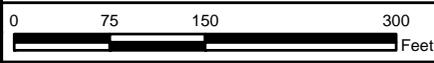
Building 632 Corner	Northing	Easting
Northeast	390800.497	3014615.234
Southeast	390722.530	3014597.313
Southwest	390731.490	3014558.329
Northwest	390809.457	3014576.250

Coordinates are in NAD 1983, Maine West, Feet



Legend

- Building 632 Parcel Boundary
- Parcel Boundary
- Transformer
- Fenceline
- Base Boundary



<p>Tetra Tech NUS, Inc.</p>	<p>SITE PLAN</p> <p>BUILDING 632 - NMCB-27/TRAINER BUILDING PARCEL</p> <p>RCRA PARTIAL CLOSURE REPORT</p> <p>NAVAL AIR STATION BRUNSWICK, MAINE</p>		<p>SCALE AS NOTED</p>
			<p>FILE</p> <p>\\NASB_BLDG_632_MAP.MXD</p>
	<p>REV</p> <p>0</p>	<p>DATE</p> <p>10/01/10</p>	<p>FIGURE NUMBER</p> <p>2</p>

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

Inspection Date: 8/12/10

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

Weather: Partly Cloudy, 70s

GENERAL BUILDING INFORMATION / USES

Building Name: NMCB 27 Bld 632

Function: Training Facility

Size: 3,200 SF

Year of Construction: 2006

Building 632 is located immediately south of Perimeter Road and the Seabee Compound (NMCB-27). East is a vacant lot, which was formerly the site of five structures (circa. 1978-1989); south and west is forested lands. Site 8 is located northeast, beyond the Seabee Compound. Construction date of Building 632 is noted as 2006, and has served as a training facility for its entire history.

Building 632 is a one story, steel framed, roofed and sided structure on a concrete pad. One floor drain was observed within the garage portion of the structure, which is connected to the sanitary sewer. Building 632 consists of garage, office, class room and function hall spaces; no hazardous materials were used in its operation and no hazardous waste was generated, according to NAS Brunswick personnel. Building 632 is heated via a ceiling mounted natural gas heater in the garage area. Two heat pumps are located on the west side of the structure and provide air conditioning to the structure.

HWSA INSPECTION / CONDITION

At the time of inspection, Building 632 was vacant 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. Minor discolorization was observed on the concrete pad in the garage portion of the structure, which appears to be attributable to the concrete sealant used. No staining was observed on the floor in the area of the floor drain. No modifications to the structure, which may conceal signs of a past release, were observed.

All surface coatings appeared to be in good condition, with no chipping or peeling of paint 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. One transformer was observed east of Building 632, which was not identified on the NAS Brunswick transformer List (February 2009). This transformer was manufactured by Cooper Power Systems, Serial No. 0088YP06X89A; Since this transformer is identified as manufactured by Cooper Power Systems on the manufacturer's nameplate, and the estimated date of installation coinciding with the construction of Building 632, this transformer is a non-polychlorinated-biphenyl (non-PCB)-containing transformer (DTM, 2006).

APPLICABLE REPORTS / DOCUMENTS

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

- 1943 map – None present, vacant land.
- 1946 map – Within “Cleared Approach” for Runway No. 21.
- 1950 building list – None present.
- 1952 map – Same as 1946 map.
- 1953 aerial – None present, vacant land; Runway No. 21 has been razed.
- 1956 map – None present, vacant land.
- 1957 map – Same as 1956 map.
- 1958 aerial – Same as 1953 aerial.
- 1965 building list – None present.
- 1975 map – Same as 1956 map.
- 1976 building list – Same as 1965 list.
- 1978 map – Same as 1956 map.
- 1978 aerial – Same as 1953 aerial.
- 1979 map – Same as 1956 map.
- 1981 aerial – Same as 1953 aerial.
- 1984 aerial – Same as 1953 aerial.
- 1989 map – Same as 1956 map.
- 1993 aerial – Same as 1953 aerial.
- 1997 aerial – Same as 1953 aerial.
- 2003 building list – Building 632, NMCB-27/Trainer Bldg. (2006) is listed.
- 2006 map – Building 632 is present, although not identified via a building name or number.
- 2008 building list – Building 632, NMCB-27/Trainer Bldg. is listed.
- Current Google aerial – Current site configuration.

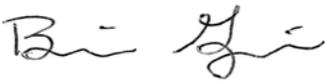
According to NASB records, No underground storage tanks (USTs), above ground storage tanks (ASTs), or oil-water separators (OWS) were registered to Building 632.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 632 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.

INSPECTOR SIGNATURE:  _____

PHOTOGRAPHS



No. 1 Building 632 – NAS Brunswick
Building 632 northwest elevation (front facing perimeter Road)

August 12, 2010



No. 2 Building 632 – NAS Brunswick
Building 632 southeast elevation (rear)

August 12, 2010



No. 3 Building 632 – NAS Brunswick
Building 632 interior, class room

August 12, 2010



No. 4 Building 632 – NAS Brunswick
Building 632 interior, garage bay in northeast corner; floor drain is present in left foreground

August 12, 2010



No. 5 Building 632 – NAS Brunswick
Building 632 interior, class room

August 12, 2010



No. 6 Building 632 – NAS Brunswick
Transformer east of Building 632 (background)

August 12, 2010