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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 24 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

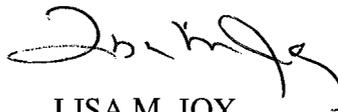
Subj: Final RCRA Partial Closure Report for Building 24

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 24 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 24

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 24–PERSONNEL SUPPORT DETACHMENT (PSD) BUILDING PARCEL
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 Building 24 parcel, at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

The Building 24 parcel is located in the central portion of NAS Brunswick (Figure 1). The approximately 3.0-acre parcel (Figure 2) is bordered to the north by Burbank Avenue; to the south by the Building 21 (Child Development Center) and Building 26 (Child Care Center) parcels; to the west by the Building 23 (Car Wash) parcel; and to the east by the Building 592 (Veterinary Clinic) parcel. The parcel contains Building 24, known as the Personnel Support Detachment (PSD) building, an adjacent grass-covered area, and an asphalt-paved parking lot located in the southern portion. A wooden gazebo is located to the south of Building 24.

Building 24, constructed in 1982, was used as an administration space for payroll, personnel, and travel support. It consists of a 10,000-square foot, single-story, steel-frame building with vertical-ribbed block exterior on a pile-supported cast-in place concrete grade beam foundation. The building is constructed with earthen berms against the north, east and south exterior walls. The building contains office space, restrooms, file storage areas, and conference space (Figure 3). Building 24 features a natural-gas heating system.

The wooden gazebo located south of the building was used as a smoking area. It is approximately 12 feet in diameter on a slab foundation.

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 information concerning the Building 24 parcel, including past use and operations at this location.

According to NAS Brunswick Environmental Department personnel, Building 24 was used as a personnel support building from its construction in 1982 until September 2010. There is no record of hazardous waste generation at Building 24.

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, 1981, 1984, 1989, 1993 and 1997 (Sewall, 1958, 1978, 1981, 1984, 1989, 1993 and 1997) were reviewed. Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1957, 1975, 1983, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1975, 1983, 1989, and 2006) to provide historical information.

The current location of Building 24 was the former location of Building 30, the dispensary building, until approximately 1981 according to review of available historical maps and aerial photographs.

The construction of Building 24 is shown in the 1981 aerial photograph Sewall, 1981). Building 24 is present beginning in the 1983 historical map (PWD, 1983).

The NAS Brunswick Removed Transformer Database lists two non-polychlorinated-biphenyl (PCB)-containing electrical transformers for Building 24 (PWD, 2010). Pertinent information regarding the transformers is provided in the table below.

Transformer	Manufacturer	Serial No.	Manufacture Date	Notes
750-kVa non-PCB-containing, pad-mounted	Cooper	906004080 ⁽¹⁾	1990	<2ppm PCB
25-kVa non-PCB-containing, pole-mounted	Cooper	911034493 ⁽¹⁾	1991	<1ppm PCB

⁽¹⁾ The first two digits of the serial numbers denote the year of manufacture (EES, 1998)

< less than
ppm parts per million

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). Due to the age of the building, it is not likely that PCB-containing transformers were in service at the Building 24 transformer pad at any time in the past. In addition, there is no record of a transformer associated with former Building 30, which was located at this parcel, in the transformer database.

NAS Brunswick aboveground storage tank (AST) and underground storage tank (UST) inventory records for Building 24 indicate that two 275-gallon, single-walled steel tanks (ASTs A24.0 and A21.1) containing No. 1 fuel oil for heating were installed inside of the Building 24 boiler room in 1997 and were removed in 2001. No USTs were present at Building 24, according to NAS Brunswick records (Environmental Department, 2009). In addition, there is no record of an AST or UST associated with the former Building 30 that was located at the Building 24 parcel.

No groundwater investigations have been conducted in the vicinity of the Building 24 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 24 parcel could potentially be impacted by other (off-parcel) source areas.

Restoration site Site 17 (Former Pesticide Shop, Building 95), and the Petroleum-Oil-Lubricants (POL) Old Navy Fuel Farm (ONFF) site are located approximately 800 feet north of Building 24; and the POL NEX Service Station (Building 538) site is located approximately 600 feet west of Building 24.

Groundwater monitoring reports relating to Site 17 (former Building 95) show that concentrations of two pesticides exceeded applicable criteria at one monitoring well location, and concentrations of diesel range organics (DRO) exceeded applicable criteria at several well locations. According to the Site 17 Remedial Investigation, groundwater flows to the southeast from the site (the Building 95 parcel) and is therefore unlikely to impact groundwater underlying the Building 24 parcel, located to the south (Tetra Tech, 2009).

Information concerning ONFF groundwater quality can be found in a recent ONFF groundwater monitoring report prepared by ECOR Solutions, Inc. (ESI) (ESI, 2009). The ONFF was decommissioned in 1993 and remediated in 2000. The April and October 2008 monitoring results indicate that groundwater is encountered at about 3 to 7 feet below ground surface (bgs) and flows from the ONFF to the southeast, across Fitch Avenue, and is therefore unlikely to impact groundwater underlying the Building 24 parcel, located to the south (ESI, 2009; Tetra Tech, 2010).

According to the 2004 corrective action plan for the NEX Service Station POL site, prepared by EA Engineering, Science, and Technology, Inc. (EA), historical groundwater surface contour data have shown a prominent groundwater flow pattern to the southwest, across the NEX Service Station POL (Building 538) site, toward the Buildings 27 and 30 parcel, located southwest of Building 24 parcel, and is therefore unlikely to impact groundwater underlying the Building 24 parcel, located to the east (EA, 2004).

4. SITE VISIT AND INVESTIGATION

A Building 24 site visit was conducted by Mr. Brian Geringer and Mr. James Forrelli, P.E. of Tetra Tech on September 23, 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 closure report. TiNUS personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The Building 24 parcel location 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 the building inspection, Building 24 was not 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.

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 24 parcel has been adversely impacted by a release, either from within the parcel or from other (off-parcel) source areas.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 24 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, occurred at the Building 24 parcel.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No additional USTs or ASTs were observed at the Building 24 parcel other than those previously discussed in Section 3.

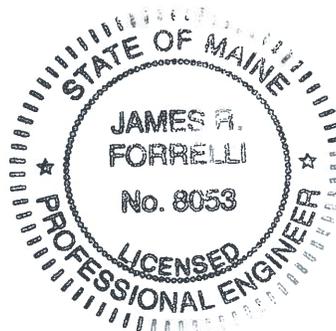
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 24 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 24 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 24 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

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

EA Engineering, Science, and Technology, Inc., 2004. Corrective Action Plan, Navy Exchange Service Station, Naval Air Station Brunswick, Maine. March.

EES (Elizabethton Electric System), 1998. Quick Sheet Data Table, PCB Information. Prepared by Elizabethton Electric System, June 1998. <http://www.eesonline.org/programs/pcbdata.html>.

ESI (ECOR Solutions, Inc.), 2009. "Final Groundwater Monitoring Report, April 2008 and October 2008 Sampling Events, Old Navy Fuel Farm, Naval Air Station Brunswick, Maine, Contract Number N62472-03-D-0802, Contract task Order 0172". September.

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

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, 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, 1983. "Existing Conditions Map. Operations Area, Public Works Department Drawing No. 2156," NAS Brunswick, Maine. May 5.

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, 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.

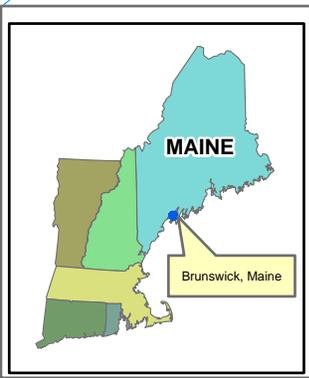
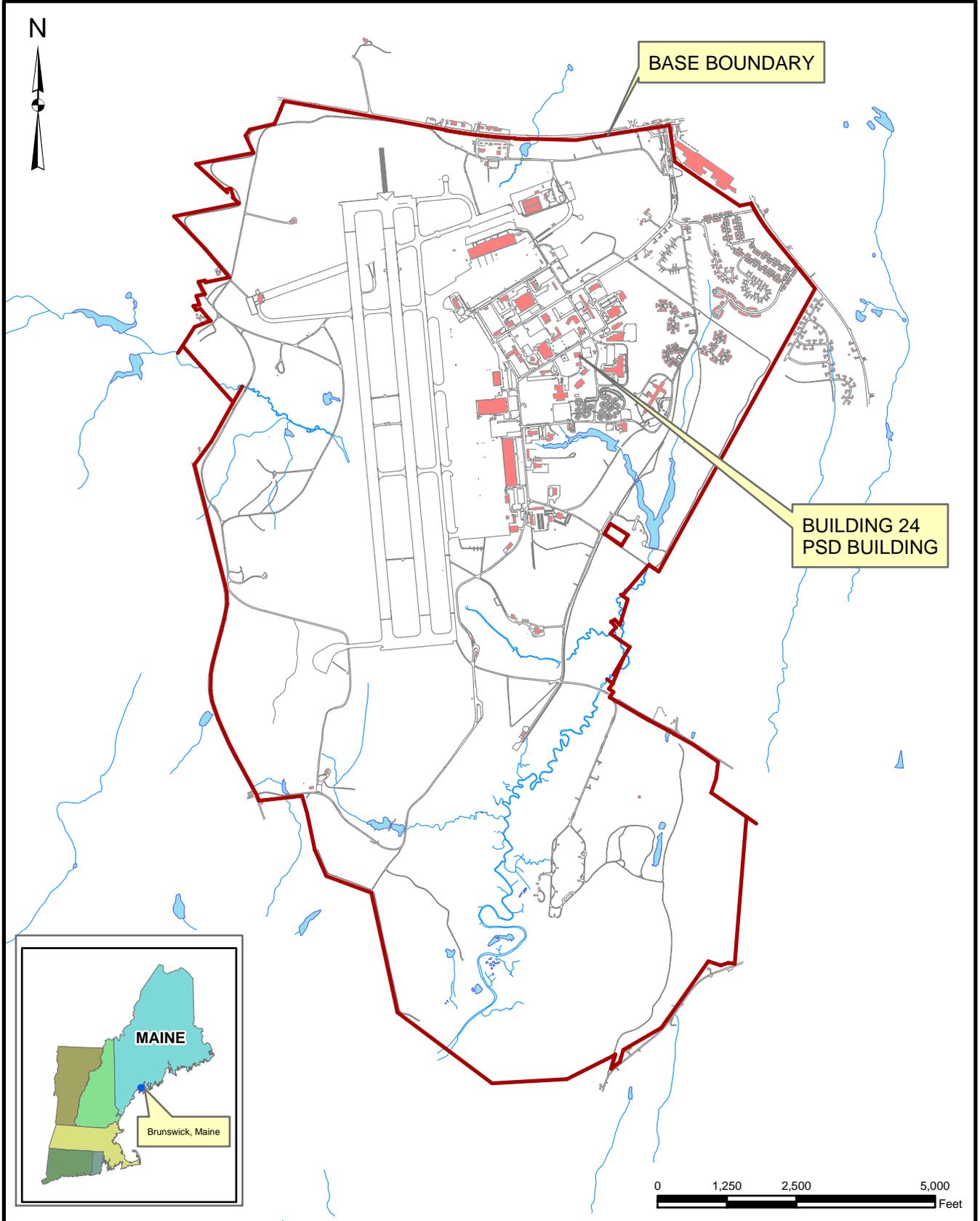
Sewall, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 8.

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

Tetra Tech (Tetra Tech NUS, Inc.), 2009. "Remedial Investigation Report for Site 17. Naval Air Station Brunswick, Brunswick, Maine. Contract Task Order WE09". July.

Tetra Tech, 2010. "Final RCRA Closure Report For Building 103 – Security-Dog Kennel Parcel, Naval Air Station Brunswick, Maine, USEPA Identification Number ME8170022018". June.

Weston (Roy F. Weston, Inc.), 1983. Initial Assessment Survey. Naval Air Station, Brunswick, Maine. June.



Tetra Tech NUS, Inc.

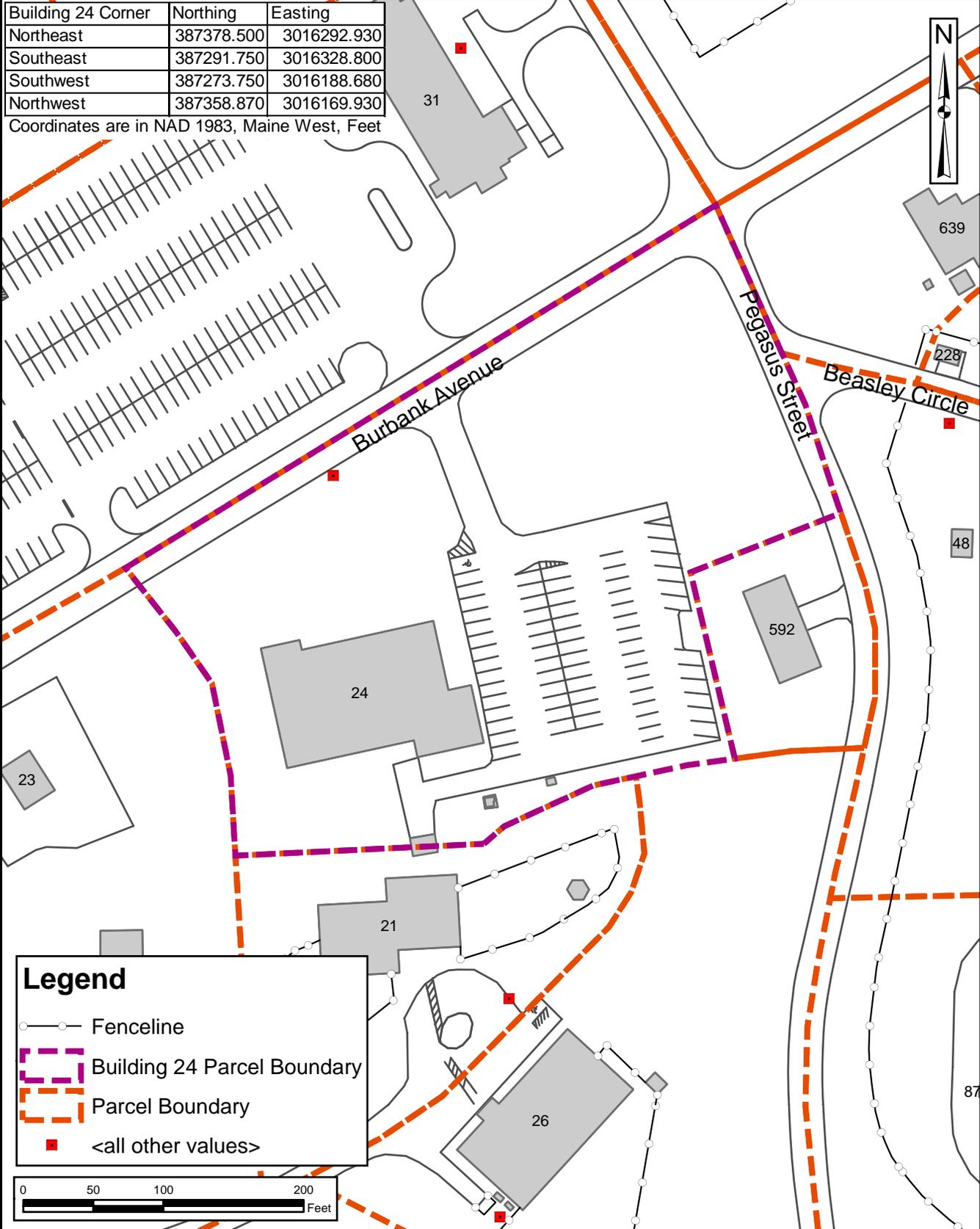
SITE LOCATION MAP
 BUILDINGS 24 - PSD BUILDING PARCEL
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\02258\CP\DR\NASB_BLDG_24_LOCUS.MXD	
REV 0	DATE 10/26/10
FIGURE NUMBER 1	

I:\02258\CP_DR\NASB_BLDG_24_SITE_MAP.MXD DWM 10/26/10

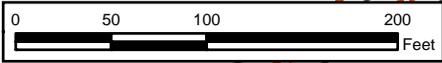
Building 24 Corner	Northing	Easting
Northeast	387378.500	3016292.930
Southeast	387291.750	3016328.800
Southwest	387273.750	3016188.680
Northwest	387358.870	3016169.930

Coordinates are in NAD 1983, Maine West, Feet



Legend

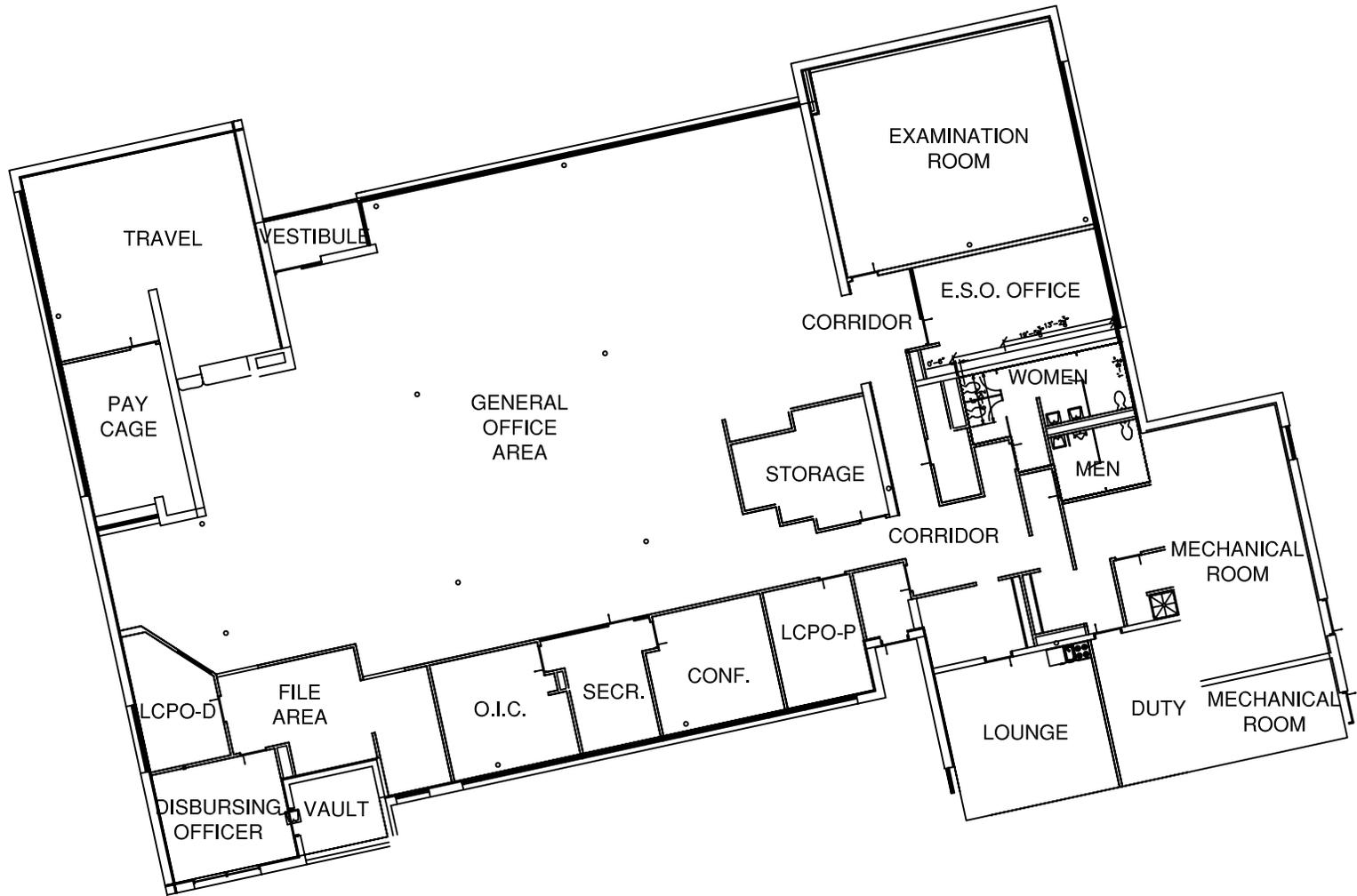
- Fenceline
- Building 24 Parcel Boundary
- Parcel Boundary
- <all other values>



Tetra Tech NUS, Inc.

SITE LOCATION MAP
 BUILDING 24 - PSP BUILDING PARCEL
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\NASB_BLDG_26_SITE_MAP.MXD	
REV 0	DATE 10/26/10
FIGURE NUMBER FIGURE NO. 2	



TETRA TECH NUS, INC.

FLOOR PLAN
 BUILDING 24 - PSD BUILDING
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE
 AS NOTED

FILE
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REV	DATE
0	10/26/10

FIGURE NUMBER
 3

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

Inspection Date: 9/23/2010

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

Weather: Clear, 60s

GENERAL BUILDING INFORMATION / USES

Building Name: Personnel Support Detachment (PSD) Building
 Function: Payroll, personnel, administrative and travel support
 Size: 10,000 SF
 Year of Construction: 1982

Building 475 is located in the central portion of NAS Brunswick , south of Burbank Avenue, north of Buildings 21 and 26 (Child Development Centers), east of Building 592 (Veterinary Clinic) and Pegasus Street and west of Building 23 (Car Wash) and 3rd Street. It was constructed in 1982 and served as the PSD Building for it's entire history. Building 24 consists of a 10,000 square-foot, single story steel-framed structure covered with vertical ribbed block on with pile-supported cast-in place concrete grade beam foundation.

Building 24 was used to as a PSD administration building for NASB. The building interior consists of a adminstration space for payroll, personnel support, and file storage.

No hazardous waste was generated during the operations in Building 24, according to NASB personnel.

Building 24 was heated via natural gas fired boilers.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 24.

The building was not occupied at the time of the site visit and appeared in fair 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 24, according to NASB personnel.

POTENTIAL PCB-CONTAINING TRANSFORMERS

The following transformers were associated with Building 24 according to NASB records:
 750 kV pad-mounted Cooper transformer (serial no. 906004080) containing <2ppm PCB
 25 kVA pole-mounted Cooper transformer (serial no. 911034493) containing <1ppm PCB

APPLICABLE REPORTS / DOCUMENTS

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

1943 plan - Avenue E (not Burbank Ave) shown with Building 30 (Dispensary) shown in Building 24 parcel.

1946 plan - Same as 1943 with the Air Force compound shown to the southeast.

1952 plan - Same as 1946 plan.

1956 plan - same as 1952 plan.

1957 plan - same as 1956 plan.

1958 aerial - Building 30 shown with parking area to the east and Air Force compound

1975 plan - Same as 1957 plan.

1978 plan - No buildings shown in Building 24 area.

1978 aerial - Same as 1958 aerial photograph

1981 aerial - Building 30 is demolished and the construction of Building 24 is shown (foundation present).

1983 plan - Building 24 is shown with parking area to the east.

1984 aerial - Building 24 is shown with parking area to the east.

1989 plan - Same as 1983 plan

1989 aerial - same as 1984 aerial

1993 aerial - Same as 1989 aerial

1997 aerial - Same as 1993 aerial.

2006 plan - Building 24 shown in it's current location

No OWS were present at Building 24 according to NASB records.

No USTs were present at Building 24 according to NASB records.

The following ASTs were associate with building 24 according to NASB records:

A 275-gallon AST (A24.0) containing #1 fuel oil for heating (installed 1997 and removed 2001).

A 275-gallon AST (A24.1) containing #1 fuel oil for heating (installed 1997 and removed 2001).

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 24, 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: _____



Brian Geringer

PHOTOGRAPHS



No. 1 Building 24 – NAS Brunswick
Personnel Support Detachment (PSD) building north elevation

September 23, 2010



No. 2 Buildings 24 – NAS Brunswick
PSD building northeast elevation

September 23, 2010



No. 3 Buildings 24 – NAS Brunswick PSD building general office area interior September 23, 2010



No. 4 Buildings 24 – NAS Brunswick PSD building travel office interior September 23, 2010