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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR BUILDING 55 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME  
4/6/2011  
NAS BRUNSWICK

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

April 6, 2011

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 55

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 55 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,

  
For LISA M. JOY  
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 55

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**  
**BUILDING 55 – BASE SECURITY BUILDING PARCEL**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**MARCH 2011**

## 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 55 parcel at Naval Air Station Brunswick (NAS Brunswick).

## 2. PROPERTY DESCRIPTION

The Building 55 (Base Security Building) parcel is located in the south-central portion of NAS Brunswick (Figure 1).

(Note that building identification number 55 was previously assigned to two other structures, as follows: (1) The former Pyrotechnic Magazine, located within the current Airfield Parking Apron Area and west of Building 553, from 1946 to the early 1950s; (2) The former Explosive Ordnance Disposal Shelter, located north of Building 145, from the mid 1960s to the mid 1970s.)

The Building 55 parcel measures approximately 37.8 acres and, as shown on Figure 2, is bounded as follows:

- along its northern boundary, from west to east - by the Building 81 (Consolidated Hazardous Material Reutilization and Inventory Management Program [CHRIMP] Facility) parcel, the Building 51 (Naval Criminal Investigation Services [NCIS]/Fire Prevention Building) parcel, the Building 201 (Galley) parcel, the Building 537 (Sewage Pump House) parcel, and the Building 516 (NiteFlite) parcel;
- along its eastern boundary - by Sandy Road and the Picnic Pond Area beyond;
- along its southern boundary - by the Building 50 (Groundwater Treatment Plant) parcel, and by Huey Drive and the Building 584 (General Warehouse ) parcel beyond; and
- along its western boundary - by Orion Street and the Hangar 5 parcel beyond.

Building 551 (Security Generator Building) is also located within the Building 55 parcel (Figure 2), but it has been addressed in a separate Partial Closure Report (Tetra Tech, December 2010b) under the NAS Brunswick RCRA Closure Program and is not evaluated in this report.

Building 55 is located in the west-northwest portion of the parcel, on the only paved area of the parcel, and is accessed via a driveway from Orion Street, immediately to the west. This driveway also provides access to the paved parking area immediately south of Building 55, and other buildings located within the parcels immediately north of the Building 55 parcel, including Building 81, northwest of Building 55, and Building 51, immediately north of Building 55. Building 551 and three sheds are located east of Building 55, just beyond the paved area. The majority of the parcel consists of undeveloped, wooded and/or grass-covered areas, and the Upper and Lower Impoundment Ponds are located within the parcel, along the northern boundary. A dirt access road is in the easternmost portion of the parcel, entering from Sandy Road, which forms the eastern boundary of the parcel.

Building 55 is 10,014 square feet in area and is a single-story, steel-framed, metal building on a concrete slab foundation. The eastern and central interior portions of the building consist of multiple offices and a classroom, and the western interior of the building includes storage and utility space, a restroom, a men's locker room, and a gun-cleaning room. Access to the building

is secure. Building 55 is heated by four natural-gas furnaces supplied by an off-site utility. Four exterior, pad-mounted, condensing units, located on the northern side of Building 55, provide air conditioning to the building (MRRA, 2006).

One of the sheds located east of Building 55 is a small, wooden shed with concrete bottom (Structure A6) designated as a smoking area. This shed is open along its western side and has dimensions of 3 feet by 8 feet. The other two sheds, located south of Structure A6 are excluded from the Building 55 parcel investigation. These two unlabeled structures are wooden, fully-enclosed storage sheds with locked doors, with dimensions of 9.5 feet by 14.5 feet, and 7 feet by 14 feet. According to NAS Brunswick personnel, the two sheds were originally located at the Building 645 (Medical/Dental Clinic) parcel, and are evidence in an ongoing criminal investigation. The sheds have been temporarily stored at this location since 2010.

The surface topography of the parcel is relatively flat, with an elevation high of approximately 60 feet mean sea level (msl) in the south and central portions of the parcel. The land slopes gradually to the northeast toward the Upper and Lower Impoundment Ponds, at an elevation of approximately 40 feet msl. The difference in elevation from the southwest to the northeast portions of the parcel is approximately twenty feet.

This RCRA closure investigation excludes Installation Restoration Program (IRP) Sites and Military Munitions Response Program (MMRP) Sites located within or partially within the Building 55 parcel (shown on Figure 2). One IRP Site and one MMRP Site are located within the parcel: IRP Site 6 - the Sandy Road Rubble and Asbestos Disposal Area - is located in the eastern area of the parcel; MMRP Site - Machine Gun Bore Sight Range - is located in the western portion of the parcel, southeast of Building 55. One other IRP Site and MMRP Site are located partially within the parcel: the southern boundary of IRP Site 9 - the Neptune Drive Disposal Site - includes the Upper Impoundment Pond and a portion of the Lower Impoundment Pond, within the Building 55 parcel; the MMRP Skeet Range Site includes the majority of the eastern portion of the Building 55 parcel. Two additional IRP Sites are located immediately south of the Building 55 parcel: Site 4 - Acid/Caustic Pit and Site 11 - Fire Training Area. Additional information on IRP and MMRP Sites as they relate to the Building 55 parcel is provided below, in Section 3.

Photographs of Building 55 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 available information concerning the Building 55 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 and drawings, and hazardous waste records. Aerial photographs dated 1953, 1958, 1978, 1981, 1984, 1989, 1993, 1997, and 2002 (Sewall, 1953, 1958, 1978, 1981, 1984, 1989, 1993, 1997, and 2002) were reviewed. Google satellite images dated 2003 and 2011 were also reviewed (Google 2003 and 2011). Additional aerial photographs for the parcel, dated 1940, 1959, 1965, 1966, 1972, 1978, and 1980, were also reviewed (U.S. EPA, 1987). Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006) and site building lists for 1950, 1965, 1976, 2003, and 2008 (PWD, 1950, 1965, 1976, 2003, and 2008) were also reviewed. Observations based upon the historical records review are summarized below. The records review also included a 1998 plan showing existing conditions at NAS Brunswick (Sebago Technics, 1998)

The 1943 historical map shows the current location of Building 55 as vacant land. Beginning with the 1946 map and 1953 aerial photograph, the Compass Rose Machine Gun Range, (currently called the Machine Gun Bore Sight Range [MGBR]), is shown in the location of the current Building 55, and the Skeet Range is shown to the northeast of the MGBR. The 1946 map shows a former Building 55 (Pyrotechnic Magazine) along Ordnance Road, to the southwest of the current Building 55 parcel. The 1953 aerial photograph also shows another cleared area within the dense vegetation (depression in the western portion of the parcel) along Sandy Road. This cleared area is the area that later became known as IRP Site 6 – Sandy Road Rubble and Asbestos Disposal Area. The area remained unchanged through the 1956 map, which shows the addition of a small building, T-227, listed as "administration for the Skeet Range." Except for a number of small unlabeled structures, presumed to be Ready Magazine Storage, and visible near the MGBR on the 1958 through the 2002 aerial photographs, no new buildings appeared on the parcel until the current Building 55 (first visible on the 2003 Google aerial, and without the western addition). Other observations noted during the review are summarized below:

- A 1987 U.S. Environmental Protection Agency (EPA) study of select historical aerial photographs of NAS Brunswick, dated 1940 to 1980, focused on four known or suspected historical release areas at NAS Brunswick (U.S. EPA, 1987). One study area (Area C), located east of the central flightline area, overlaps the Building 55 parcel. In the report's analysis of an aerial photograph dated August 15, 1978, excavation of a "mounded bunker area and approximately 50 possible drums" nearby are noted in the area southeast of the current Building 55. In the report's analysis of the same area in an aerial photograph dated September 9, 1980, excavation of the "mounded bunker" continues, and the presence of "100 probable drums" immediately west of the bunker are noted. Due to the degradation of resolution from the original photography used in the EPA analysis, it is not possible to discern the features noted on the report prints.
- In reviewing the 1978 aerial photograph (Sewall, 1978), in the area southeast of the current Building 55, a crescent-shaped, disturbed area appears at the tree line, and a group of indiscernible objects is located to the west.
- On the 1981 aerial photograph (Sewall, 1981), the crescent-shaped, disturbed area remains visible in the same area at the tree line, and possible piles of mounded material are visible to the northwest of the disturbed area.
- In the 1984 aerial photograph (Sewall, 1984) the crescent-shaped area southeast of the current Building 55 appears inactive, and the previous possible piles of mounded material are not present.
- The 1998 historical map indicates a "proposed recycling" location in the area of the MGBR. The initial construction date of this facility at this location is uncertain.
- The 2006 map shows Building 55 in its current configuration, with Building 551 (Security Generator Building) to the east. The 2003 and 2006 Google aerial photographs indicate that the western section of Building 55 was added around that timeframe.

NAS Brunswick Environmental personnel indicated that the recycling center (current Building 153) was located at Building 55 for a short time until approximately 2003, prior to its renovation for occupancy by Base Security in 2005. Recycling operations were similar to current operations, which include recycling of non-hazardous material, including small quantities of used oil, paper and plastic. A review of the NAS Brunswick Hazardous Waste Database for the period 1990 through 2009 did not indicate that hazardous waste was generated at Building 55. Small quantities of hazardous material used during gun-cleaning activities were obtained through the Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP), which was located in Building 81. The CHRIMP oversaw the use, supply, and collection of all hazardous materials used at NAS Brunswick, including materials such as petroleum products,

cleaning solvents, and various paints and coatings. This centralized, hazardous materials program thereby controlled hazardous materials acquisition and inventory, reducing the generation and disposal of hazardous waste. Hazardous materials were signed-out from the CHRIMP Facility (Building 81) in small quantities (typically less than a week's supply), with unused and excess quantities also returned to the CHRIMP in Building 81. Expired and unserviceable hazardous materials were also returned to the CHRIMP for disposal as hazardous waste, including spent solvents, used and empty aerosol cans, and paint waste.

No known septic systems are present at Building 55. The Building is served by the base-wide sanitary sewer system (Navy, 2006). No oil/water separators (O/W separator) have been associated with Building 55 (PWD, 2008b).

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 55 (Environmental Department, 1999; Environmental Department 2005; and MEDEP, 2010).

The NAS Brunswick Removed Transformer Database lists no electrical transformers associated with Building 55 (PWD, 2009).

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 55 indicate that no USTs have been associated with Building 55 (Environmental Department, 2009). Five ASTs are listed in the database for Building 55, as follows:

| Tank ID | Capacity (gallons) | Material Stored | Manufacturer | Year Installed/Removed |
|---------|--------------------|-----------------|--------------|------------------------|
| A55.0   | 550                | No. 1 fuel oil  | Clemco       | 1999/2004              |
| A55.0   | 250                | No. 1 fuel oil  | Hoover       | 2006/Active            |
| A55.1   | 550                | No. 1 fuel oil  | Tesco        | 1999/2004              |
| A55.1   | 275                | diesel          |              | 2006/2006              |
| A55.2   | 250                | waste oil       | Hoover       | 2001/2004              |

The area that includes the Building 55 parcel is identified in the Community Environmental Response Facilitation Act (CERFA) report as Area B-5. It was determined to be an area with the potential for classification as Category 2 or 3 CERFA property. Category 2 is an area of known release and/or disposal, defined as real property on which hazardous substances and/or petroleum products or their derivatives are known to have been released or disposed, including property where all response actions necessary to protect human health and the environment, with respect to hazardous substances or petroleum products/derivatives, have been taken. A Category 3 CERFA property is an area of potential release and/or disposal. This is defined as real property on which there is the potential for hazardous substances and/or petroleum products or their derivatives to have been released or disposed, and some level of further assessment or evaluation is required. These classifications were based on the proximity of the area to IRP and MMRP Sites and the potential for undocumented releases from historical operations (Tetra Tech, 2006).

The Initial Assessment Study (IAS) of NAS Brunswick, conducted in 1982, documented past activities and disposal operations to identify disposal sites and potentially contaminated areas, based on records search and an on-site survey. The records review assimilated information on the base's industrial processes and waste disposal practices, while the survey included on-site inspections and interviews of base personnel and retirees. In the 1983 IAS report, Table 6-10 (Weapons and Ordnance Stored at the Brunswick Naval Air Station) lists the use of Building 55 as an inert storehouse; given the listed construction date (2005) of the current Building 55, this most likely refers to the former Building 55. Based on information from historical records, aerial photographs, field inspections, and personnel interviews, the IAS identified ten potentially contaminated disposal sites at NAS Brunswick. These include Site 6, the Rubble and Asbestos

Disposal Site, located within the northeast portion of the Building 55 parcel, and Site 9, the Neptune Drive Disposal Site, located along the northern border of the Building 55 parcel, as discussed below. No other disposal sites or potentially contaminated areas were identified for the Building 55 parcel. In addition, no areas within the current Building 55 parcel were identified as waste handling or storage areas (NEESA, 1983).

#### IRP and MMRP Sites

Two IRP and two MMRP sites occupy portions of the Building 55 parcel and are being investigated under those programs. The Upper and Lower Impoundment Ponds located along the northern boundary of the Building 55 Parcel are included in the IRP Site 9 investigation, as mentioned in Section 2. They also overlap with the Skeet Range Boundary (Figure 2) and were therefore investigated as part of the MMRP. The status of investigation activities at these sites that overlap the Building 55 parcel are as follows:

IRP Site 6 - The Sandy Road Rubble and Asbestos Disposal Site (Figure 2) was used to dispose of approximately 250 cubic yards of construction debris, including asbestos-lined pipes and aircraft parts, from an unknown date until the 1970s (Navy, 2006). The material was excavated and removed from this site, which was then sampled, backfilled, and replanted. No further action is necessary at Site 6, based on the 1993 Record of Decision (ROD) (Navy, 2006 and 2010).

IRP Site 9 - The Neptune Drive Disposal Site was the location of an incinerator (from 1943 to 1953) and an ash landfill/disposal area, where incinerated solid waste and ash were disposed of and where liquid wastes and solvents were burned on the ground near Building 201 (Navy, 2010). Following a number of environmental investigations that identified elevated concentrations of metals, polycyclic aromatic hydrocarbons (PAHs), pesticides, and chlorinated volatile organic compounds (VOCs) in various media (soil, sediment, surface water, leachate, and/or groundwater) a number of removal actions have been implemented at Site 9. The 1999 Final ROD recommended natural attenuation and long-term monitoring with institutional controls (land use restrictions) for Site 9. A removal action completed in 2008 included removal of 42,355 tons of ash-containing soil that was sent to an approved disposal facility (Navy, 2010). Long-term monitoring and additional investigations are ongoing at Site 9 under the IRP.

MMRP Site - Machine Gun Bore Sight Range (MGBR) - As indicated on Figure 2, the former MGBR and a large portion of the "likely shotfall/surface danger zones" of the former NAS Brunswick Skeet Range and MGBR are located within the Building 55 parcel. The MGBR was abandoned in the early 1960s and has been inactive for more than 50 years. (The Site Management Plan [SMP] for NAS Brunswick indicates that the former MGBR encompasses an area of approximately 0.3 acres that was used to test the accuracy of fixed aircraft guns, where ammunition was reportedly fired into berms that were removed years ago to an undisclosed location. The SMP also notes that part of the range is now covered by Building 55, by a paved road and paved parking lot, and by fenced storage areas (ECC, 2008). Groundwater samples from five monitoring wells (MGBR-MW01 through MGBR-MW05) and 29 surface and subsurface soil samples from 15 locations (not shown) were collected from within the Building 55 parcel, as part of the MGBR MMRP Site Investigation. Preliminary data from laboratory analyses and a screening evaluation of the sample results indicate that antimony, chromium, cobalt, and manganese were detected in groundwater at concentrations exceeding EPA residential screening levels (RSLs). Elevated levels of lead and other metals were identified in surface soil in a small area near the former berm, where material has been removed. The preliminary conclusion from the investigation is that no further action is necessary at the MGBR, given the planned industrial land use of the area (Tetra Tech, 201b). The investigation also noted that arsenic, cobalt, and manganese (found at the MGBR) are metals that are present at elevated concentrations at Site 9.

MMRP Site - Skeet Range - The SMP states that the former Skeet Range, which was used for the training of military personnel in the use of 12-gauge shotguns during the 1950s, occupies approximately 73.2 acres and is located approximately 75 meters north and 100 meters east of

Building 55 (Navy 2006, ECC, 2008). As shown by the boundaries on Figure 2, the Skeet Range occupies most of the eastern portion of the Building 55 parcel, and also encompasses the majority of IRP Site 6 and the Lower Impoundment Pond, as well as all of the Upper Impoundment Pond, associated with IRP Site 9. The Skeet Range is being investigated under the MMRP, including the analysis of three co-located sediment and surface water samples (SKT-SWSD02 through SKT-SWSD04) from the Lower Impoundment Pond and a number of soil samples collected in and around the likely shotfall zone, which includes areas of the Building 55 parcel and abutting parcels. Preliminary data from laboratory analyses, followed by a screening evaluation of the sample results, indicate that a number of metals (including arsenic, chromium and cobalt) are present in sediment and in shallow (0-3 inches) and deep (3-12 inches) surface soil at elevated concentrations. Lead and antimony in shallow surface soil and polycyclic aromatic hydrocarbons (PAHs) in shallow and deep surface soils also exceeded screening levels. For surface water, arsenic was the only metal detected at elevated concentrations. Preliminary conclusions, based on risk screening results and evaluation of lead data, are that surface water and sediment concentrations are within acceptable levels, whereas remediation of shallow subsurface soil is recommended subsequent to an additional investigation to refine/confirm the area for remediation of the Skeet Range

Information on known NAS Brunswick groundwater contamination areas was reviewed to determine if groundwater underlying the Building 55 parcel could potentially be impacted by another (off-parcel) source. The overall groundwater flow for the area is expected to be to the southeast toward Mere Brook, based on topography and previous groundwater investigations at IRP Site 9 (north of the MGBR) and Site 1 (south of the MGBR) (Tetra Tech, 2010b). Groundwater investigations have also been conducted in areas within, upgradient of, and downgradient of the Building 55 parcel as part of the NAS Brunswick Remedial Investigation (EC Jordan, 1990 and 1991), and during ongoing 5-year reviews. More recent groundwater, soil, and sediment investigations were conducted at the Building 55 parcel in association with the MMRP, to assess conditions at various munitions sites, including the MGBR and the Skeet Range. Sediment, surface water, and groundwater sampling stations associated with IRP or MMRP investigations and located within the Building 55 parcel are shown on Figure 2.

As noted in Section 2, a small portion of the southernmost area of IRP Site 9 falls within the northernmost portion of the Building 55 parcel (Figure 2). From the Site 9 landfill/source area, located to the north/northeast of the parcel, groundwater flow is generally in a south-southeast direction. Based on information from IRP Site 9 investigations, migration of contaminated groundwater from the IRP Site 9 source area could be expected to impact portions of the Building 55 parcel, part of which is located south and southeast of Site 9. In addition, it is likely that elevated concentrations of metals detected in groundwater underlying the parcel, during the MGBR investigation, are associated with Site 9.

#### 4. SITE VISIT AND INVESTIGATION

A site visit was conducted for Building 55 on November 23, 2010 by Mr. James Forrelli, P.E., Mr. Brian Geringer, and Ms. Donna Straker, 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:

- At the time of inspection, Building 55 was in good condition and was occupied by the Base Security staff. The building consists of a number of offices, storage rooms, a file room, training room, classroom, conference room, men's locker room, and various utility rooms. The floors of the hallway and individual rooms are mostly tiled, but some areas are carpeted.
- 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.
- One floor drain was observed in Building 55 in the hallway between the men's locker room and Room 125. No staining or other evidence of a release was observed in the area of the drain.
- No peeling or flaking paint was observed on the exterior or interior of the building.
- Structure A6 was staged on the grassy area near the eastern end of Building 55. This wooden shed with a concrete bottom is similar to other sheds formerly used on the base for temporary storage of hazardous material and waste. According to NAS Brunswick personnel, Structure A6 was only used as a smoking area; no hazardous material and waste items were being stored in the shed and the its bottom was visibly clean.
- Two wooden sheds, marked with yellow tape labeled "Crime Scene Do Not Cross", were also staged on the grassy area south of Structure A6 and were not opened for inspection. According to NAS Brunswick personnel, these sheds are being stored at this location temporarily and are evidence in an ongoing criminal investigation.

Based on the site visit observations and records research findings, the following additional investigations were warranted at the Building 55 parcel: (1) to investigate the potential presence of hazardous waste residue that may have been associated with the gun-cleaning area (Room 125) in Building 55 (see "Building 55 Residue Investigation", below); and (2) to investigate the areas previously identified in the EPA analysis of 1978 and 1980 aerial photographs as the locations of "possible drums" and "probable drums", southeast of the current Building 55, and an "excavation area" also identified in the EPA analysis (see "Possible/Probable Drums" and Excavation Areas Investigation, below).

Building 55 Residue Investigation - On January 14, 2011, wipe samples for RCRA metals analysis were collected from nine locations in Building 55, including the work bench, floor, and gun lockers in Room 125, as well as the floor of the hallway at the entrance to Room 125, as shown on Figure 3. The samples were collected with cotton gauze saturated with dilute nitric acid (1:4 nitric acid to distilled water). A 10-centimeter (cm) by 10-cm sampling area was wiped with the cotton gauze while applying moderate pressure. All wipe samples were submitted for RCRA metals analysis by Tetra Tech's subcontracted laboratory, Katahdin Analytical Services of Scarborough, Maine (Katahdin). The resulting analytical data underwent limited data validation consisting of field duplicate evaluation, blank contamination evaluation, and completeness evaluation.

Wipe sample results for the Building 55 investigation are presented in Table 1. For lead, analytical results were compared to the following MEDEP criteria for lead-contaminated settled dust, applicable for RCRA closures:

Floors: 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ )  
 Walls and other flat surfaces up to a height of 8 feet: 250  $\mu\text{g}/\text{ft}^2$   
 Surfaces above 8 feet: visibly clean (dust-free)

There are no Maine criteria for the other seven RCRA metals. However, for these RCRA Partial Closure activities, the MEDEP has approved the use of World Trade Center (WTC) Settled Dust Screening Values (WTC, 2003) as clearance values for wipe sample results for six of the other seven metals (there are no WTC screening values for selenium). Therefore, the investigation and closure actions were designed to meet the lead-contaminated settled dust criteria and all other metals-contaminated settled dust clearance values.

As shown in Table 1, lead exceeded the MEDEP criterion for walls (250  $\mu\text{g}/\text{ft}^2$ ) in the two samples and in the duplicate sample that were collected from the workbench. Lead also exceeded the MEDEP criterion for walls in one of the four samples collected in the gun locker. In all other wipe samples, including gun locker and floor samples, lead levels were below the MEDEP criteria. All levels of other detected metals were below the WTC screening values.

Based on the analytical results and discussions with NAS Brunswick personnel, it was determined that no cleaning is necessary for Building 55. NAS Brunswick personnel indicated that the four gun lockers, which are fully contained, will continue to be used in the same capacity and for the intended purpose of storing guns. Additionally, the work bench was removed for disposal and will be replaced with a new workbench that would be covered with plastic or other disposable material during weapons cleaning activities to prevent recontamination of the new bench.

“Possible/Probable Drums” and Excavation Areas Investigation - A geophysical survey was conducted to investigate the potential presence of buried drums at the former mounded bunker/excavation area. On March 30, 2011, metal detection and ground penetrating radar (GPR) surveys were conducted over the former mounded bunker/excavation area. The survey employed both a Geonics EM31M-MK2 ground conductivity meter and a GSSI SIR-3000 ground penetrating radar. Weak instrument responses were observed across the area, likely due to small pieces of metal at shallow depths; it is unlikely that any such responses were caused by larger, buried metal objects, such as 55-gallon drums. Additional information provided below supports the findings and conclusion of the geophysical investigation: that buried drums are not present, and that no further investigation of this area of the Building 55 parcel is warranted.

According to the IAS, the practice of landfill waste disposal at NAS Brunswick was stopped by 1975; after that time solid waste produced by NAS Brunswick was disposed of at the Town of Brunswick landfill. Also, during the time period of the observations, waste classified as hazardous by the IAS including waste oil, solvents, hydraulic fluids as well as unused surplus paints, solvents, alcohols and acids were transferred to the Defense Property Disposal Office (DPDO) for resale. In addition, the area southeast of current Building 55 identified as a possible drum/probable drum staging area and excavation area based on 1978 and 1980 aerial photographs was not identified by the IAS, which was conducted in 1982, as a hazardous materials storage area or as a disposal site or potential contaminated area (NEESA, 1983). A review of aerial photographs from 1978, 1981 and 1984 could not verify that drums were staged at the area southeast of current Building 55. In addition, no other historical records, reports, or interviews with NAS Brunswick Environmental personnel indicated that past drum-related activity occurred in the area southeast of current Building 55.

Furthermore, based on review of historical maps, the location of the “mounded bunker” excavation area appears to lie between the former berm and the tree line of the forested area. This area coincides with the area where the fixed aircraft guns were reportedly test-fired and also lies within the surface danger zone of the MGBR, which was investigated under the MMRP. The location of the “possible” and “probable drums” lies within the footprint of the current Building 55 parking lot and under the southeast corner of the building. This location would have been significantly re-worked during the construction of Building 55, and any residues related to former activities in that area have been paved over with asphalt and would be very difficult to locate and identify. Therefore, the exterior area of the Building 55 parcel was not targeted for further investigation.

There is no evidence to indicate that historical activities at the Building 55 parcel have adversely affected groundwater, with the exception of potential impacts from two MMRP Sites – the Skeet Range and the MGBR. However, groundwater contaminant migration from IRP Site 9 has impacted the northern area of the Building 55 parcel. Any adverse impacts to groundwater at the Building 55 parcel resulting from contaminant migration from Site 9 would be addressed under the IRP, while potential impacts from the Skeet Range or the MGBR would be addressed under the MMRP.

## 5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, sampling results, and NAS Brunswick Environmental Department personnel interviews, lead-contaminated residue exceeding clearance criteria was present at Building 55 on the workbench and in one gun locker in the gun-cleaning area (Room 125) of Building 55. No other metals exceeded applicable settled dust clearance values. The areas impacted by lead-dust were addressed as described in Sections 4.0 and 6.0; therefore, no further closure actions are required.

## 6. OTHER ENVIRONMENTAL CONSIDERATIONS

Any ASTs known to be associated with Building 55 are discussed in Sections 3 and 4 of this report. No other ASTs were observed in the immediate vicinity of the building. No electrical transformers, O/W separators, or USTs are known to be associated with Building 55 and none were observed.

## 7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 55 parcel (as shown on Figure 2) only, with the exception of the two IRP Sites (Sites 6 and 9) and the two MMRP Sites (MGBR and Skeet Range), which also include the two Impoundment Ponds and are being investigated under the IRP and MMRP, respectively. Two wooden sheds (stored evidence) on the Building 55 parcel could not be accessed and are also excluded from this RCRA Partial Closure Report. The final disposal of these structures will be documented in a separate report.

## 8. CERTIFICATION

Based on the findings of this investigation, as presented in this Partial Closure Report, historical operations resulted in the presence of hazardous waste residue in the form of lead-contaminated residue on the workbench and in one gun locker in Room 125 of Building 55, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 55 parcel 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

- ABB, 2004. Draft Final Technical Memorandum, Site 9, Neptune Drive Disposal Site, May.
- EA, 1999. Record of Decision for Site 9, NAS Brunswick, Maine. September.

## 5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, sampling results, and NAS Brunswick Environmental Department personnel interviews, lead-contaminated residue exceeding clearance criteria was present at Building 55 on the workbench and in one gun locker in the gun-cleaning area (Room 125) of Building 55. No other metals exceeded applicable settled dust clearance values. The areas impacted by lead-dust were addressed as described in Sections 4.0 and 6.0; therefore, no further closure actions are required.

## 6. OTHER ENVIRONMENTAL CONSIDERATIONS

Any ASTs known to be associated with Building 55 are discussed in Sections 3 and 4 of this report. No other ASTs were observed in the immediate vicinity of the building. No electrical transformers, OW separators, or USTs are known to be associated with Building 55 and none were observed.

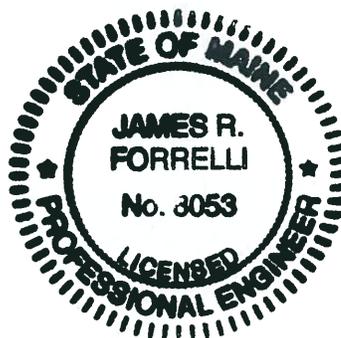
## 7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 55 parcel (as shown on Figure 2) only, with the exception of the two IRP Sites (Sites 6 and 9) and the two MMRP Sites (MGBR and Skeet Range), which also include the two Impoundment Ponds and are being investigated under the IRP and MMRP, respectively. Two wooden sheds (stored evidence) on the Building 55 parcel could not be accessed and are also excluded from this RCRA Partial Closure Report. The final disposal of these structures will be documented in a separate report.

## 8. CERTIFICATION

Based on the findings of this investigation, as presented in this Partial Closure Report, historical operations resulted in the presence of hazardous waste residue in the form of lead-contaminated residue on the workbench and in one gun locker in Room 125 of Building 55, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 55 parcel 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.

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**TABLE 1  
WIPE SAMPLE RESULTS  
RCRA PARTIAL CLOSURE REPORT  
BUILDING 55 - BASE SECURITY BUILDING  
NAVAL AIR STATION BRUNSWICK, MAINE  
PAGE 1 OF 2**

| SAMPLE ID <sup>(1)</sup>             | B55-WP01                                       | B55-WP02                                       | B55-WP02<br>(duplicate)                        | B55-WP03                               | B55-WP04                               | B55-WP05   | B55-WP06   |
|--------------------------------------|--|--|--|--|--|--|--|
| LOCATION                             | Room 125<br>gun storage<br>work bench<br>north | Room 125<br>gun storage<br>work bench<br>south | Room 125<br>gun storage<br>work bench<br>south | Room 125<br>gun storage<br>south floor | Room 125<br>gun storage<br>north floor | Room 125<br>gun cabinet<br>No. 1<br>bottom shelf | Room 125<br>gun cabinet<br>No. 2<br>bottom shelf |
| MATRIX                               | wipe   | wipe   | wipe   | wipe                                   | wipe                                   | wipe   | wipe   |
| SAMPLE DATE                          | 01/14/2011                                     | 01/14/2011                                     | 01/14/2011                                     | 01/14/2011                             | 01/14/2011                             | 01/14/2011                                       | 01/14/2011                                       |
|                                      | CRITERIA                                       |  |  |  |  |  |  |
|                                      | WTC  | MEDEP<br>floor                                 | MEDEP<br>wall                                  |  |  |  |  |
| METALS ( $\mu\text{g}/\text{ft}^2$ ) |  |  |  |  |  |  |  |
| arsenic                              | 36   | --   | --   | 4.6 UJ                                 | 4.6 UJ                                 | 4.6 UJ   | 4.6 UJ   |
| barium                               | 10000  | --   | --   | 120                                    | 140                                    | 180  | 19 U   |
| cadmium                              | 140  | --   | --   | 2 J                                    | 1.9 J                                  | 7.6 J  | 1 J  |
| chromium                             | 440  | --   | --   | 4.4 UJ                                 | 6.3 UJ                                 | 10 UJ  | 4.4 UJ   |
| lead                                 | NA   | 40   | 250  | 260                                    | 310                                    | 410  | 10   |
| mercury                              | 15   | --   | --   | 0.19 J                                 | 0.56                                   | 0.37   | 0.83   |
| selenium                             | --   | --   | --   | 6.5 U                                  | 4.1 J                                  | 6.5 U  | 6.5 U  |
| silver                               | 730  | --   | --   | 3.7 U                                  | 3.7 U                                  | 0.56 J   | 3.7 U  |

**TABLE 1  
WIPE SAMPLE RESULTS  
RCRA PARTIAL CLOSURE REPORT  
BUILDING 55 - BASE SECURITY BUILDING  
NAVAL AIR STATION BRUNSWICK, MAINE  
PAGE 2 OF 2**

| SAMPLE ID <sup>(1)</sup>          |       |    |     | B55-WP07                                | B55-WP08                                | B55-WP09                              |
|-----------------------------------|-------|----|-----|---|---|---------------------------------------|
| LOCATION                          |       |    |     | Room 125<br>gun cabinet No. 3<br>bottom | Room 125<br>gun cabinet No. 4<br>bottom | corridor outside<br>Room 125<br>floor |
| MATRIX                            |       |    |     | wipe                                    | wipe                                    | wipe                                  |
| SAMPLE DATE                       |       |    |     | 01/14/2011                              | 01/14/2011                              | 01/14/2011                            |
|                                   |       |    |     | CRITERIA                                |   |                                       |
|                                   |       |    |     | WTC                                     | MEDEP<br>floor                          | MEDEP<br>wall                         |
| <b>METALS (µg/ft<sup>2</sup>)</b> |       |    |     |   |   |                                       |
| arsenic                           | 36    | -- | --  | 4.6 UJ                                  | 14                                      | 4.6 UJ                                |
| barium                            | 10000 | -- | --  | 69                                      | 570                                     | 30                                    |
| cadmium                           | 140   | -- | --  | 10                                      | 94                                      | 1.3 J                                 |
| chromium                          | 440   | -- | --  | 190                                     | 390                                     | 5.5 UJ                                |
| lead                              | NA    | 40 | 250 | 39                                      | 340                                     | 8.7                                   |
| mercury                           | 15    | -- | --  | 0.083 J                                 | 0.56                                    | 0.028 J                               |
| selenium                          | --    | -- | --  | 6.5 U                                   | 4.4 J                                   | 4.4 J                                 |
| silver                            | 730   | -- | --  | 0.83 J                                  | 4.7 J                                   | 3.7 U                                 |

## Notes:

(1) Sample prefix "NASB" is not shown.

Wipe sample surface area: 10 cm by 10 cm

WTC Source: Table A-3 Settled Dust Screening Values and Supporting Toxicity Criteria from World Trade Center Indoor Environment Assessment: Selecting Contaminants of Potential Concern and Setting Health-Based Benchmarks, May 2003

µg/ft<sup>2</sup> micrograms per square foot

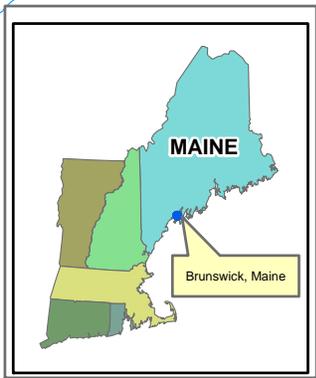
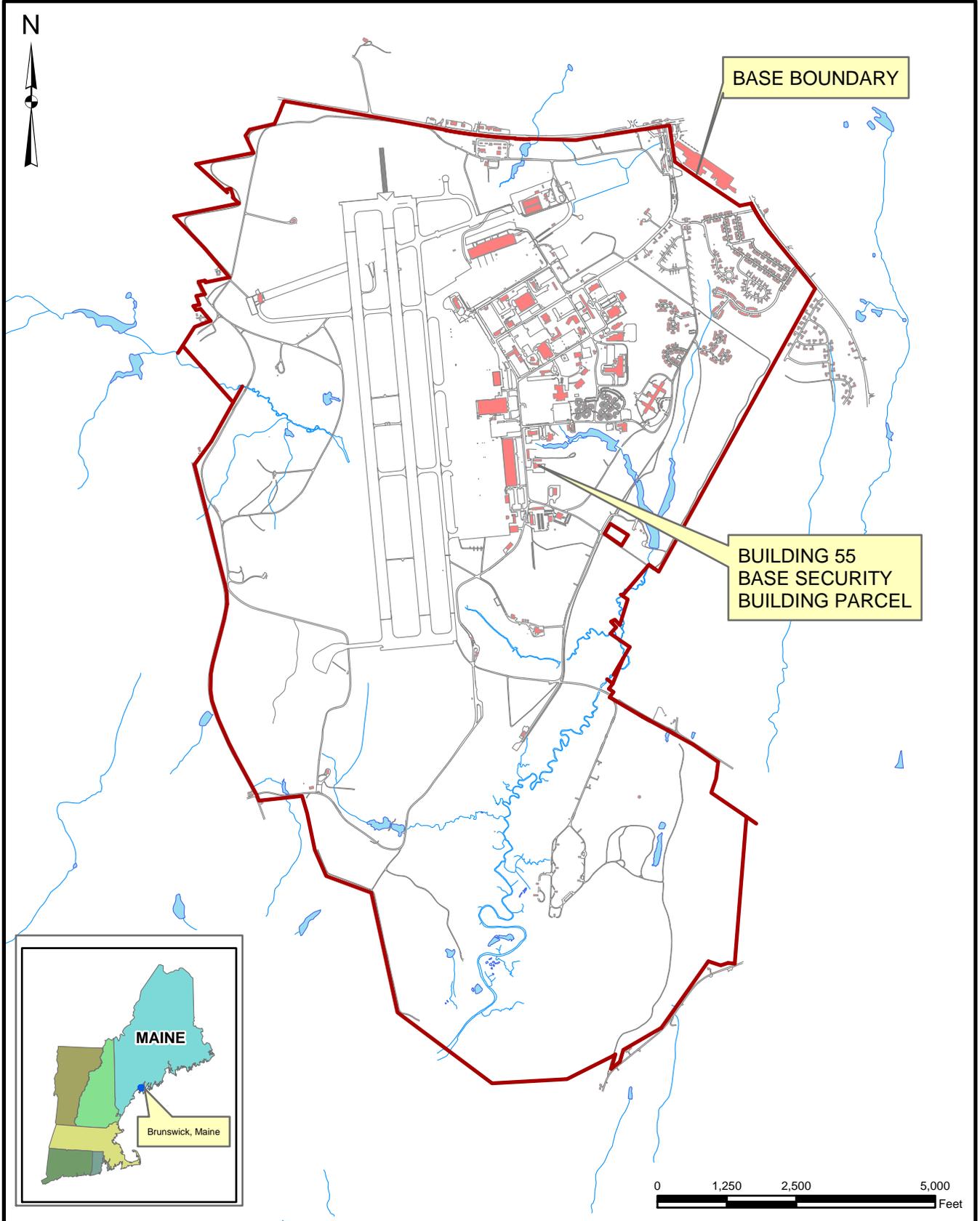
U not detected (with associated detection limit)

J estimated result

-- no criteria available

NA not applicable

Shading indicates criteria exceeded

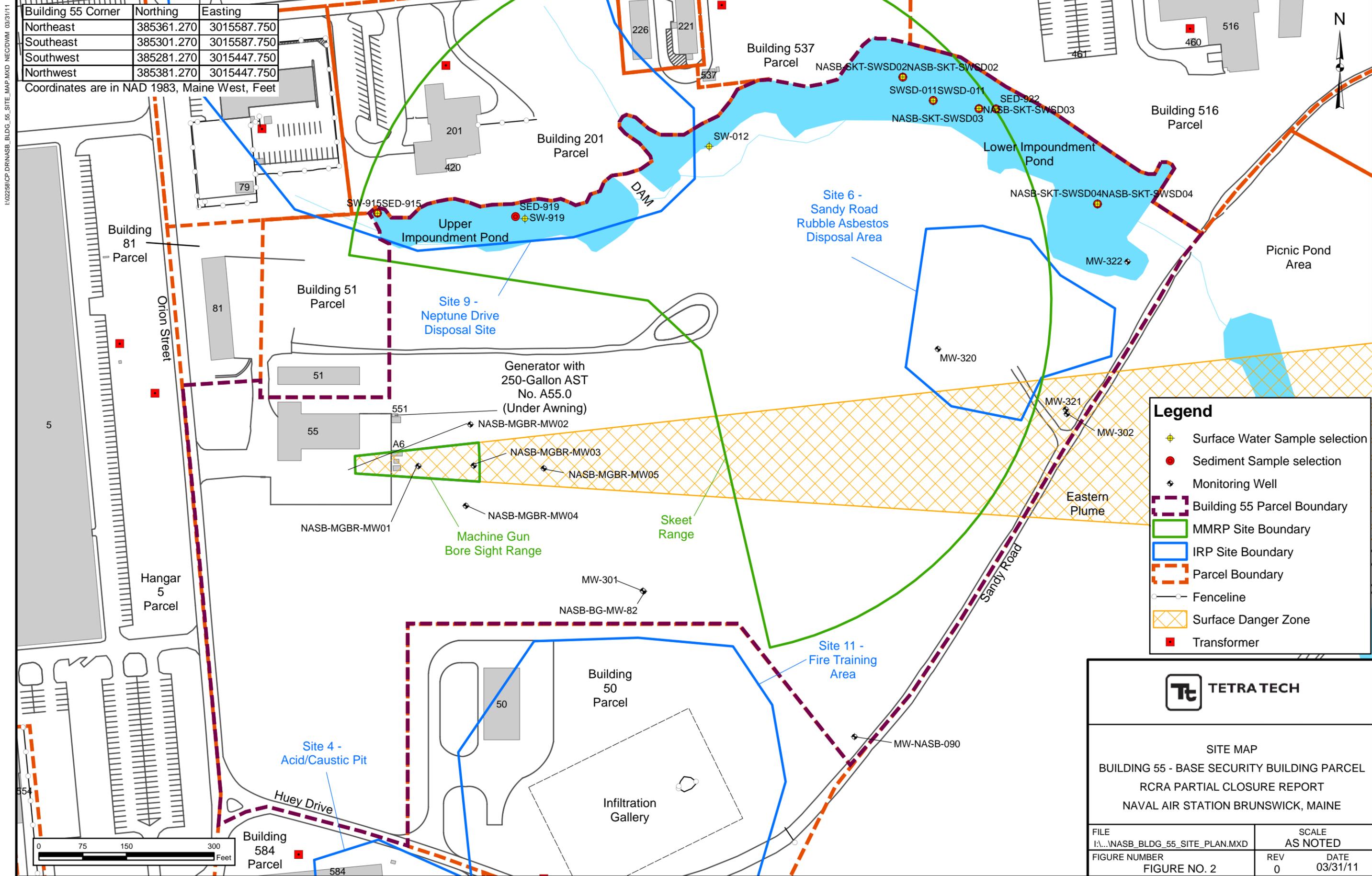


**SITE LOCATION MAP**  
**BUILDING 55 - BASE SECURITY BUILDING PARCEL**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

|                                    |                 |
|------------------------------------|-----------------|
| SCALE<br>AS NOTED                  |                 |
| FILE<br>I:\_NASB_BLDG_55_LOCUS.MXD |                 |
| REV<br>0                           | DATE<br>2/15/11 |
| FIGURE NUMBER<br>1                 |                 |

| Building 55 Corner | Northing   | Easting     |
|--------------------|------------|-------------|
| Northeast          | 385361.270 | 3015587.750 |
| Southeast          | 385301.270 | 3015587.750 |
| Southwest          | 385281.270 | 3015447.750 |
| Northwest          | 385381.270 | 3015447.750 |

Coordinates are in NAD 1983, Maine West, Feet



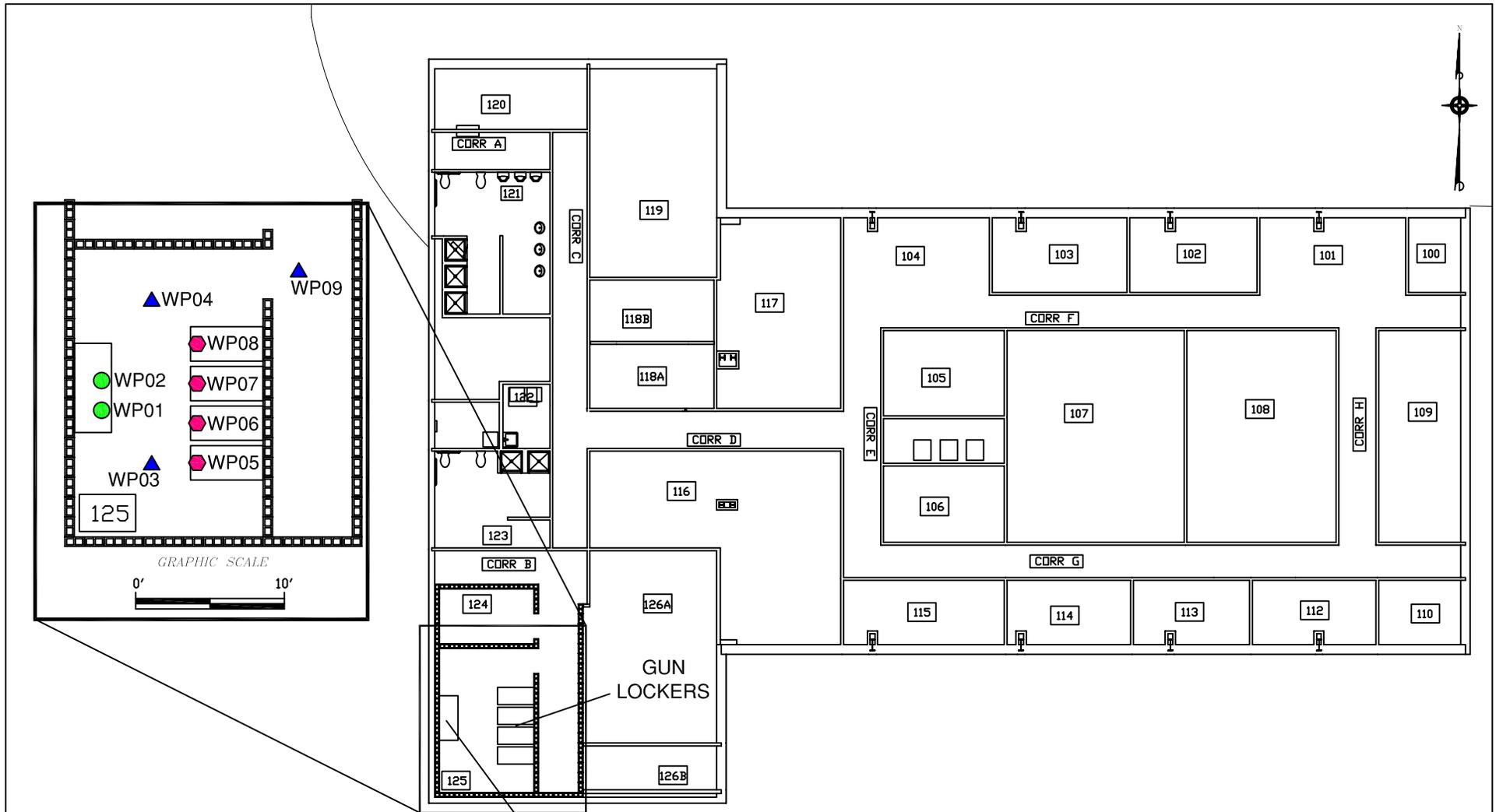
**Legend**

- Surface Water Sample selection
- Sediment Sample selection
- Monitoring Well
- Building 55 Parcel Boundary
- MMRP Site Boundary
- IRP Site Boundary
- Parcel Boundary
- Fenceline
- Surface Danger Zone
- Transformer



SITE MAP  
 BUILDING 55 - BASE SECURITY BUILDING PARCEL  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

|  |                   |
|--|-------------------|
| FILE<br>I:\...NASB_BLDG_55_SITE_PLAN.MXD | SCALE<br>AS NOTED |
| FIGURE NUMBER<br>FIGURE NO. 2            | REV<br>0          |
|  | DATE<br>03/31/11  |



LEGEND

- WP01 ● BENCH WIPE SAMPLE LOCATION
- WP03 ▲ FLOOR WIPE SAMPLE LOCATION
- WP05 ● GUN LOCKER WIPE SAMPLE LOCATION

GRAPHIC SCALE



WORK BENCH



TETRA TECH NUS, INC.

SAMPLE LOCATIONS  
 BUILDING 55 - BASE SECURITY BUILDING  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE  
 AS NOTED

FILE  
 \.. \NASB\_BLDG\_55\_FP.DWG

REV DATE  
 0 03/01/11

FIGURE NUMBER  
 3

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

**Inspection: Date: 11/23/10**

**Personnel: Brian Geringer / Jim Forrelli, P.E., Donna Straker**

**Weather: Damp, Cloudy/Foggy, and temperature in the 40s**

**GENERAL BUILDING INFORMATION / USES**

Building Name: Base Security Building

Function: Houses security operations for the Base

Size: 10,014 SF

Year of Construction: 2005

- Single story, steel-frame metal building with metal siding on slab-on-grade concrete foundation.
- Interior – gypsum wallboard (sheetrock) walls, vinyl floor tiles and carpet cover the floors.
- Acoustical ceiling tiles and fluorescent lighting is present throughout the building. Water-stained areas were observed on some ceiling tiles in the corridors, suggesting a leaky roof.
- The building is primarily office areas, with a large size classroom in the middle of the building.
- According to NASB personnel, the building is heated by four gas furnaces with heat pumps, and has four separate controllers for heat/air conditioning (A/C).

**HWSA INSPECTION / CONDITION**

The building is currently occupied by Base Security and consists of a number of offices, storage rooms, a file room, training room, classroom, conference room, men’s locker room, and various utility rooms. The floors of the hallway and individual rooms are mostly tiled, but some areas are carpeted.

A flame locker was observed outside along the east wall of the building. It contained a gas can, lighter fluid and charcoal. At the time of inspection, cleaning supplies were stored in a flame locker in the hallway outside of Room 125 – Ready issue Room. It contained isopropanol, simple green, de-icer, and “Arpolube 63460” – used for gun cleaning. Material safety data sheets (MSDS) were present in a binder attached to the flame locker. A floor drain was observed in the hallway to the north of the locker and a closed, metal dirty-rag bin was situated to the south of the locker. No staining was observed in the area. With the exception of the water stain in the ceiling tile towards the east end of the building, Building 55 appeared to be in good condition.

**Room 125** – This room is located at the southwest corner of the building and is a gun cleaning/ready-issue room with secure access. According to Base personnel, guns are cleaned on the workbench (along the west wall) using rags and pipe cleaners. Four gun cabinets/safes along the wall opposite the workbench are used for weapons storage.

A locked room (124) adjacent to room 125 was not inspected. Base security-personnel stated that this is an evidence room, and is used only to store evidence.

Three additional structures (A6 and two unnamed sheds), plus Building 551 (the Security Generator Building) are located on the parcel, to the east of the Building 55 and the paved area (Figure 2). Structure A6 is an open-front wooden shed with concrete bottom and is designated as a smoke shed. The other two locked storage sheds were encircled by “police-line” tape and, according to Base personnel, are evidence in a criminal investigation.

No improper storage of hazardous waste, staining, or release of hazardous materials was observed.

**POTENTIAL PCB-CONTAINING TRANSFORMERS**

No transformers or vacant concrete pads were observed on this parcel.

**APPLICABLE REPORTS / DOCUMENTS**

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

1943 map – Area not shown on this map.

1946 map – A former Building 55 (Pyrotechnic Magazine) is shown along Ordnance Road No. 1, to the southwest of the location of current Building 55. A former Building 69 (Ready Magazine) is shown just north of the Compass Rose Machine Gun Range, which is shown in the location of the current Building 55. The skeet range is shown to the northeast of the machine gun range.

1950 building list – A Building 55 (Magazine) is listed as available for lease (423 ft<sup>2</sup> space).

1952 map – Same as 1946 map.  
 1953 aerial – Most of the parcel area is densely vegetated. What appears to be Building 69 and the cleared locations of the machine gun and skeet ranges are visible, along with another cleared location to the west of the parcel that coincides with the Sandy Road Rubble and Asbestos Disposal Area (Site 6).  
 1956 map – Similar to 1952 map. Machine gun range now labeled as “Pistol Range.” Also T-227, a small building (~311 ft2) is shown within the parcel and is listed as administration for the skeet range.  
 1957 map – Similar to 1956 map. Location of pistol range is labeled as #139. T-227 not shown.  
 1958 aerial – Similar to 1953 aerial. A number of small structures are visible in the area of the pistol Range  
 1965 building list – The name of the former building 55 is changed to “E.O.D. Shelter”, Former buildings 69 and 139 – same  
 1966 building list – Same as 1965 list.  
 1975 map – Former buildings 69 and 139 are shown in same location, former building 55 is not present.  
 1976 building list – Supports 1975 map – 69 and 139 still have same functions, while 55 is deleted  
 1978 map – Not clear.  
 1978 aerial – Activity has occurred in area of pistol range. Epic aerial identifies disturbed mounded bunker just east of the gun range and a number of “possible drums” nearby (west of the bunker).  
 1979 map – No new buildings are present.  
 1980 Epic aerial – Same as 1978 aerial w/ “probable drums” and excavated mounded bunker notations.  
 1981 and 1984 aerials – Similar to 1978 aerial, but “probable” drums near machine gun range are no longer visible.  
 1983 map – Same as 1979 map.  
 1989 aerial – Six small structures (possible Ready Magazine storage) are visible in vicinity of gun range. Rest of area unchanged.  
 1989 map – Same as 1979 map.  
 1993 aerial – Same as 1989 aerial.  
 1997 aerial – Similar to 1993 aerial. Upper and lower impoundment ponds evident to north of parcel.  
 1998 map – Rectangular area encompassing part of pistol range is labeled as “Proposed Recycling”  
 2002 aerial – Same as 1997 aerial.  
 2006 building list/facilities disposal list – The current Building 55 is listed as the “Police/Security Building” and is shown as built in 2005. The former Building 55 (E.O.D. Shelter) is listed as disposed with an unknown disposal date.  
 2006 map – The existing Building 55 and adjacent buildings (51 and 551 are shown).  
 Current Google aerial – Current site configuration.

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 55 indicate that no USTs have been associated with Building 55. Five ASTs are listed in the database for Building 55 as follows:

| ID    | Capacity | Material Stored | Manufacturer | Year Installed/Removed |
|-------|----------|-----------------|--------------|------------------------|
| A55.0 | 250      | #1 OIL          | HOOVER       | 2006/Active            |
| A55.1 | 275      | DIESEL          |              | 2006/2006              |
| A55.0 | 550      | #1 OIL          | CLEMCO       | 1999/2004              |
| A55.1 | 550      | #1 OIL          | TESCO        | 1999/2004              |
| A55.2 | 250      | WASTE OIL       | HOOVER       | 2001/2004              |

No oil-water separators (OWS) have been associated with Building 55 (Navy, 2006). No septic systems were identified within this parcel, which has been, and is currently being served by the base-wide sanitary sewer system (Navy, 2006).

**HAZARDOUS WASTE STORAGE RECORDS**

No hazardous waste was historically stored at Building 55 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 55 – Base Security Building, NAS Brunswick March 29, 2011  
View of Building 55 parcel looking towards the northeast from SW corner of playing field and Orion Street



No.2 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
Northwest elevation; Building 551 (Security Generator) and trees in background



No. 3 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
Building 55 south paved parking area looking east towards former Machine Gun Bore Sight Range; Structure A6 and two evidence storage sheds on grassy area in background



No. 4 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
Area southeast of Building 55 looking east towards former Machine Gun Bore Sight Range berm



No. 5 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
East of Building 55 (left to right); Building 551 (Security Generator), Structure A6, and two unlabeled sheds (evidence)



No. 6 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
Structure A6 (smoking area) on grassy area east of Building 55



No.7 Building 55 – Base Security Building, NAS Brunswick March 29, 2011  
Interior of Structure A6



No. 8 Building 55 – Base Security Building, NAS Brunswick November 23, 2010  
Building 55 Interior; administrative office space (northwest end of building, exit to north side)



No. 9 Building 55 – Base Security Building, NAS Brunswick November 23, 2010  
Building 55 Interior; classroom (central area of building)



No. 10 Building 55 – Base Security Building, NAS Brunswick November 23, 2010  
Building 55 Room 125 (southwest corner of Building 55); gun cleaning area (workbench) and gun storage cabinets (opposite workbench) prior to workbench removal